

CURRICULUM VITAE

Daniel Tranel

(Date of Preparation: May 12, 2017)

I. PERSONAL DATA

- A. Date of Birth: 10/20/57
- B. Citizenship Status: USA
- C. Current Address: Department of Neurology
University of Iowa Hospitals and Clinics
200 Hawkins Drive
Iowa City, IA 52242
(319) 384-6050
(319) 384-7199 (FAX)
e-mail: daniel-tranel@uiowa.edu

II. EDUCATION

- 1979 B.A. (Psychology) University of Notre Dame
- 1981 M.A. (Clinical Psychology) University of Iowa
- 1982 Ph.D. (Clinical Psychology) University of Iowa

III. POST-GRADUATE EDUCATION

- 1983 Post-Doctoral Fellow (Behavioral Neurology)
University of Iowa College of Medicine
- 1984 Post-Doctoral Associate (Clinical Neuropsychology)
University of Iowa College of Medicine

IV. ACADEMIC AND ADMINISTRATIVE APPOINTMENTS

Academic

- 1985 Assistant Research Scientist, University of Iowa College of Medicine
- 1986 Assistant Professor of Neurology, University of Iowa College of Medicine
- 1987 Core Faculty, Neuroscience Program, University of Iowa College of Medicine
- 1990 Associate Professor of Neurology, University of Iowa College of Medicine
- 1994 Professor of Neurology, University of Iowa College of Medicine
- 1994 Professor of Psychology, University of Iowa
(1994: Primary Member, Clinical Area)
(2009: Primary Member, Behavioral and Cognitive Neuroscience Area)

Training Faculty

- 2000 Mentor, Medical Student Training Program Faculty, University of Iowa College of Medicine
- 2000 Mentor, Doris Duke Charitable Foundation Clinical Research Fellowship Program for Medical Students, University of Iowa College of Medicine (Allyn Mark, MD, Program Leader)

Clinical Service

1986 Chief, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics

Administrative

1987 Co-Director, Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine
2000 Director, Neuroscience Program, University of Iowa
2005 Director, Division of Neuropsychology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine
2014 Associate Dean of Graduate and Postdoctoral Studies, University of Iowa College of Medicine

V. CERTIFICATION AND LICENSURE

- A. Certification: National Health Service Provider in Psychology (awarded 11/86; License #00151)
- B. Licensure: Professional Psychology, State of Iowa. License #00493, awarded 8/16/85. Status: Permanent
- C. Specialty Board Certification: Diplomate in Clinical Neuropsychology. The American Board of Professional Psychology/American Board of Clinical Neuropsychology (ABPP/ABCN). Diploma #04017, awarded 9/26/88.

VI. PROFESSIONAL AFFILIATIONS

<u>Date Joined</u>	<u>Organization</u>
1983	International Neuropsychological Society
1983	Behavioral Neurology Society
1984	American Association for the Advancement of Science
1985	American Psychological Association (Member #1824-2474) Division 12: Clinical Psychology Section III: Society for a Science of Clinical Psychology Division 13: Consulting Psychology Division 40: Neuropsychology
1985	Society for Neuroscience
1986	American Academy of Neurology
1986	Society for Psychophysiological Research
1987	National Academy of Neuropsychology
1988	American Board of Clinical Neuropsychology
1988	Midwestern Psychological Association
1989	Academy of Aphasia
1989	Memory Disorders Research Society
1991	Iowa Psychological Association
1992	American Psychological Society
1998	American Physiological Society

VII. AREAS OF RESEARCH INTEREST

Cognitive neuroscience at systems level
 Clinical and experimental neuropsychology
 Graduate and postdoctoral education

VIII. LECTURES AND TEACHING ACTIVITIES

Courses Taught since Fall 2008

Semester/ Year	Advisees		Courses Taught	Students Enrolled	Selected ACE Summary Scores (means; scale from 1 (lowest) to 6 (highest))				
	Under grad	Grad			Course Number and Title	Well planned, organized	Recommend course; questions	Good examples	Instructor effective
Fall 2008	4	7	132:245 Applied Statistics for Cognitive Neuroscience	4					
			132:365 Seminar: Neuropsychology & Neuroscience	2					
Spring 2009	4	8	31:190 Psychology Seminar – Neuropsychology	14	5.77	6.00	6.00	6.00	5.69
Fall 2009	3	8	31:278 Principles of Neuropsychology	28	5.81	5.77	5.85	5.65	5.46
			132:245 Applied Statistics for Cognitive Neuroscience	3					
			132:365 Seminar: Neuropsychology & Neuroscience	1					
Spring 2010	5	9	132:365 Seminar: Neuropsychology & Neuroscience	1					
Fall 2010	4	9	132:365 Seminar: Neuropsychology & Neuroscience	3					
Spring 2011	6	9	132:365 Seminar: Neuropsychology & Neuroscience	2					
Fall 2011	7	9	31:278 Principles of Neuropsychology	37	5.83	5.90	5.97	5.76	5.55
			132:365 Seminar: Neuropsychology & Neuroscience	2					
Spring 2012	8	9	132:365 Seminar: Neuropsychology & Neuroscience	3					
Fall 2012	8	9	31:278 Principles of Neuropsychology	11	5.78	6.00	6.00	5.89	5.33
			132:365 Seminar: Neuropsychology & Neuroscience	4					
Spring 2013	12	8	132:365 Seminar: Neuropsychology & Neuroscience	3					
			31:461/2/3/4 Practicum courses (.5)	25					
Fall 2013	5	10	31:278 Principles of Neuropsychology	24	5.58	5.79	5.75	5.63	5.00
			132:365 Seminar: Neuropsychology & Neuroscience	4					
			31:461/2/3/4 Practicum courses (.5)	31					
Spring 2014	4	10	31:190 Psychology Seminar – Neuropsychology	20	5.94	5.94	5.97	5.97	5.81
Fall 2014	4	7	31:278 Principles of Neuropsychology	25	5.92	5.96	5.96	6.00	5.71
			CLAS: Senior College – Cognitive Neuroscience and Neuropsychology (shared instruction with Natalie Denburg, PhD)	50					
			132:365 Seminar: Neuropsychology & Neuroscience	1					
Spring	4	7	31:291 Foundations in the	1					

2015			neuroscience of music and emotion (independent study course)						
Fall 2015	3	7	PSY:6370 Principles of Neuropsychology	28	5.87	5.96	5.91	5.83	5.78
Fall 2016	2	7	PSY:6370 Principles of Neuropsychology	32	5.73	5.92	5.85	5.73	5.46
Spring 2017	3	7	PSY:4090 Psychology Seminar – Neuropsychology	14					

Student Comments from Course Rating Forms:

31:190, Spring 2009

“Really enjoyed your course. Loved your stories and enthusiasm. Thanks.”

“Great class! I really enjoyed my time here and would recommend him as a professor for future students. Thank you!”

31:278, Fall 2009:

“What a great instructor! Gave me enthusiasm for the subject, and my friends got sick of hearing what I had learned for the week. The topics were hard, and the reading was extensive, but somehow you had fun along the way. Thanks!”

31:278, Fall 2011:

“One of the best courses I have ever taken.”

“Great instructor; I learned a lot in the class. I wish the class would have been a little longer. I would definitely take another class with Dr. Tranel.”

31:278, Fall 2012:

“I had a great experience throughout this course. We discussed fascinating topics, and every class I learned something new and crucial for my success in graduate school. I wish the course continued! Thank you for the effort and enjoyable learning environment!”

31:278, Fall 2013:

“I did not anticipate enjoying your class as much as I did. I didn’t consider neuropsychology to be inherently interesting to me, but your vast knowledge for the subject matter, your passion for the field, your respect of the students, and your sense of humor throughout the semester made this one of the best courses I have taken in my entire academic career. Thank you for sharing your knowledge, personality, and time with us students.”

31:190, Spring 2014

“One of my favorite classes I’ve taken at the University of Iowa.”

“I loved this class. It was my favorite class I took in college.”

“I felt honored to be able to learn in a small course from such a distinguished professor.”

“This was one of the best classes I’ve ever taken.”

“The course has been great fun. One of my favorite classes at this University.”

31:278, Fall 2014:

“This is one of the best courses I have ever taken. Thank you for being so respectful/encouraging of student questions and comments.”

“This has been the best class I have taken in my graduate career. I learned more than I have in any class and I enjoyed myself too! A fantastic course that I will highly recommend.”

“Very excellent class. Dr. Tranel is probably one of the most knowledgeable, least pretentious professors I have ever had.”

PSY:6370, Fall 2015:

“This class is my favorite class I have ever taken in my life and that has solely to do with Dr. Tranel. I had no prior knowledge of neuropsych until this class but Dr. Tranel made the material so interesting that it was a great course. I love his friendly teaching style and the way he has fun when he teaches. His stories and knowledge in this field are unparalleled and I feel like this course should be required in most if not all graduate programs because it’s an injustice to go to Iowa and not take a course with this man.”

“Fantastic class with a really interesting and inspiring instructor. I felt very comfortable asking questions and responding, even when unsure. Dan created a great atmosphere for learning and exploring creative topics. I will recommend this course to future grad students!”

“Tranel makes each student’s contributions and experiences feel valuable and important. He is extremely knowledgeable in his field and is able to demonstrate concepts with real-world case examples. I feel privileged to have taken a course from someone so distinguished (while also making material accessible) in the field.”

“Wonderful class. Dr. Tranel is brilliant and translates his knowledge in a way that is accessible to students. Very glad I took the course.”

PSY:6370, Fall 2016:

“This was a fantastic class, and Dan did an outstanding job teaching it. Likely the best class I’ve taken at UI. I learned an incredible amount, and all of it will be useful to me moving forward.”

“This is easily the best class I’ve ever taken here at Iowa. Dan is an amazing teacher. His humor is greatly appreciated as it makes class loose and exciting. I can’t recommend this class enough!”

“This is one of the best courses I’ve ever taken. I learned a ton and have many new ideas for research. Thanks, Dan!”

“Best course I’ve taken at the University! Lots of reading, but completely worth it. Thanks for an amazing semester!”

“Dan is incredibly passionate about what he does, clearly continuously curious about his area of study, and very committed to his craft. He is also very committed to teaching and helping students to explore the field, become excited, ask questions, and think critically in our own right. I enjoyed the course and am grateful to have had the opportunity to be a part of it!”

Invited Lectures: International and National (selected examples)

- “Morality, decision-making, and the social brain: Insights from neuropsychology.” Presidential Symposium Address, American Neuropsychiatric Association, Atlanta, Georgia, March 10, 2017.
- “Is emotion good for decision-making?” University of Wisconsin – Milwaukee, Neuroscience Program, Milwaukee, Wisconsin, September 23, 2016.
- “The brain’s moral compass: Clues from neuropsychology.” William K. Warren Frontiers in Neuroscience Conferences, Laureate Institute for Brain Research, Tulsa, Oklahoma, August 16, 2016.
- “Emotion, decision-making, and the prefrontal cortex across the lifespan.” Continuing Education Workshop (shared with N. Denburg, PhD), National Academy of Neuropsychology, San Diego, CA, October 16, 2013.
- “Talking pigs: Case studies, neuropsychology, and cognitive neuroscience.” West Virginia University, September 9, 2013.
- “Sex-related differences in large-scale neural systems underlying affect and decision-making.” NIMH, Special Workshop on *Sex differences in brain, behavior, mental health and mental disorders*. February 28 – March 1, 2011.
- “Emotion, moral reasoning, and the human brain.” Distinguished Lecture Series (Lynne Cooper, PhD). University of Missouri, November 30, 2010.
- “Characterizing function: Neuropsychological datasets in lesion studies.” Advances in Lesion-Function Mapping of the Human Brain, Montreal Neurological Institute & Hospital, McGill University, April 17, 2010.

- “Anosognosia in Huntington’s Disease.” Conference on Advances in the Study of Anosognosia (George Prigatano, PhD, Organizer). Phoenix, Arizona, October 24, 2008.
- “Naming and knowing: Neuroanatomical correlates of lexical retrieval and conceptual knowledge.” Keynote Lecture, Clinical Aphasiology Conference, Jackson Hole, Wyoming, May 30, 2008.
- “Higher functions of the ventromedial prefrontal cortex, and how they are affected by age and gender.” Center for Neuroscience Lecture Series, University of Wisconsin, Madison, Wisconsin, May 17, 2007.
- “Social cognition, moral reasoning, and the human brain.” Charles G. Matthews Neuropsychology Lecture, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, November 3, 2006.
- “The neuroscience of human social cognition.” Grand Rounds, Mayo Clinic, Rochester, Minnesota, July 11, 2006.
- “From brain to behavior: The neuroscience of human social cognition.” Lecture in Neurosciences, Purdue University Integrative Program in Neuroscience. April 27, 2006.
- “Neural systems for knowledge retrieval.” Plenary Address, International Neuropsychological Society, Boston, MA, February 3, 2006.
- “Retrieval of knowledge for unique entities: Convergent evidence from lesion studies and functional imaging.” International Neuropsychological Society, Boston, MA, February 2, 2006.
- “Neural correlates of emotion, decision-making, and social conduct.” American Psychological Association, 113th Annual Convention, Washington, DC, August 19, 2005.
- “Neural correlates of knowing things and naming things.” Department of Audiology and Speech Sciences and Department of Psychological Sciences, Purdue University, (D. Kemmerer, PhD, Host). April 15, 2005.
- “Neural systems for knowing things and for naming things.” Center for Cognitive Neuroscience, University of Pennsylvania (Martha Farah, PhD, Host). December 13, 2004.
- “Neural systems for knowing and naming.” Department of Psychology, Vanderbilt University. November 15, 2004.
- “Neural correlates of emotion, reasoning, and social conduct.” Department of Psychology, Emory University (Stephan Hamann, PhD, Host). November 1, 2004.
- “Neural systems for nouns and verbs.” Roundtable Discussion, University of Chicago, S. Small, MD, PhD (organizer). April 29, 2004.
- “Neural correlates of emotion, decision-making, and social conduct.” Colloquium in Neuroscience, University of Texas Health Science Center at Houston, J. Bachevalier, PhD (host). April 15, 2004.
- “Release of test data to non-psychologists.” Special Symposium (M. Macartney-Filgate, PhD, organizer), American Psychological Association annual meeting, Toronto, Ontario. August 10, 2003.
- “The neural basis for knowledge retrieval: Concepts, semantics, and names.” Keynote Address, Midwest Neuropsychology Group. 2003 Annual Meeting, Medical College of Wisconsin, Milwaukee, Wisconsin. May 16, 2003.
- “Knowing and naming: How the brain retrieves conceptual and lexical knowledge.” Cognitive Forum, Michigan State University, T. Carr, PhD (organizer). April 4, 2003.
- “Neuropsychological functions of the human amygdala.” University of Illinois. N. Cohen, PhD (host). March 4, 2003.
- “Neural correlates of decision-making.” 36th Winter Conference on Brain Research, Snowbird, Utah. P. Churchland, PhD (symposium organizer). January 27, 2003.
- “Using the lesion method to map the neural correlates of knowledge retrieval.” Department of Psychology, Washington University, St. Louis, Missouri. January 9, 2003.
- “Neural basis of social and moral reasoning.” Lecture in Neurosciences, Purdue University Integrative Program in Neuroscience. February 7, 2002.
- “Nonconscious brain processing.” Neuroscience Seminar Series, Purdue University (D. Kemmerer, PhD, organizer). February 6, 2002.

- “Neural correlates of social conduct and moral reasoning.” Social Neuroscience Lecture Series, University of Chicago (J. Cacioppo, PhD, organizer). December 6, 2001.
- “The neural basis of word retrieval.” Neuroscience Program, University of Illinois (N. Cohen, PhD, organizer). October 23, 2001.
- “Ethics in Clinical Neuropsychological Practice.” Discussant, APA Division 40 Event, Annual Meeting of the American Psychological Association, San Francisco, California, August 25, 2001.
- “Neurobiology of emotion regulation.” Neurobiology of Emotion in Psychosomatic Medicine, in conjunction with the 59th Annual Meeting of the American Psychosomatic Society (R.D. Lane, W.R. Lovallo, chairs). Monterey, California, March 6-7, 2001.
- “Neural correlates of retrieval of conceptual and lexical knowledge for concrete entities, actions, and spatial relationships. Symposium on category-related deficits (Mike Dixon, PhD, organizer), TENNET meeting, Montreal, Quebec, Canada, June, 2000.
- “How emotion contributes to decision-making: Neuropsychological and neuroanatomical correlates.” Tenth Annual Rotman Research Institute Conference, *The Frontal Lobes*, Toronto, Ontario, Canada, March 22, 2000.
- “Disorders of topographic localization.” *The 25th Annual Course in Behavioral Neurology and Neuropsychology*, December 3, 1999, Lake Buena Vista, Florida. Sponsored by the Florida Society of Neurology and the Center for Neuropsychological Studies at the University of Florida.
- “The visual recognition of emotion.” *The 25th Annual Course in Behavioral Neurology and Neuropsychology*, December 4, 1999, Lake Buena Vista, Florida. Sponsored by the Florida Society of Neurology and the Center for Neuropsychological Studies at the University of Florida.
- Invited discussant, “Brain damage and personality change in Phineas Gage.” Presentation delivered at the **John Martyn Harlow Frontal Lobe Symposium**, in honor of the Phineas Gage 150th Anniversary Commemoration, Cavendish, Vermont, September 12, 1998.
- “Developmental consequences of early frontal lobe injury.” Keynote speaker at session on “Frontal lobe dysfunction and development: Is 'emergent' frontal lobe dysfunction a core consequence of heavy prenatal exposure to alcohol?” **Research Society on Alcoholism**, Hilton Head Island, South Carolina, June 20, 1998. Charles Goodlett, PhD, chairperson.
- “Deciding advantageously before knowing the advantageous strategy.” **NINDS Medical Research Branch**, Bethesda, Maryland, June 10, 1997. Jordan Grafman, PhD, host.
- “Electrodermal activity in cognitive neuroscience: Neuroanatomical and neuropsychological correlates.” *The Interface of Emotion and Cognitive Neuroscience*, sponsored by the **McDonnell-Pew Program in Cognitive Neuroscience, the Department of Psychology, the Department of Psychiatry, and the College of Medicine, the University of Arizona**, Tucson, Arizona, December 5-7, 1996. Richard D. Lane, MD, and Lynn Nadel, PhD, Organizers.
- “A historical perspective on reorganization of function and neuroplasticity.” (with Arthur L. Benton) **Neuroplasticity and reorganization of brain function**, NINDS Medical Research Branch, Bethesda, Maryland, December 3-4, 1996. Jordan Grafman, PhD, and Harvey S. Levin, PhD, Organizers.
- “Neural basis of emotional processing.” **Purdue University School of Science**, Department of Psychology, November 22, 1996.
- “Neural basis of emotional processing.” **Rotman Research Institute**, Baycrest Centre for Geriatric Care, D.T. Stuss, coordinator. Toronto, Ontario, Canada, October 28, 1996.
- “Category-related effects in the retrieval of conceptual and lexical knowledge regarding concrete entities.” **Rotman Research Institute**, Baycrest Centre for Geriatric Care, D.T. Stuss, coordinator. Toronto, Ontario, Canada, October 28, 1996.
- “Towards a neurobiology of the emotions.” Symposium at the **XXVI International Congress of Psychology**, C.E. Izard, PhD, Convener. Montreal, Quebec, Canada. August 20, 1996.
- “Advances in the neurobiology of language.” **Language and Visual Processing**, D. Hubel (Chairperson). LXI Cold Spring Harbor Symposium on Quantitative Biology, “Function and Dysfunction of the Nervous System.” Cold Spring Harbor, New York, May 29-June 5, 1996.
- “Visual dysfunction caused by lesions of the ventromedial visual pathway in humans.” North American Neuro-ophthalmology Society Meeting, Durango, Colorado, February 28, 1994.

- “Neural substrates of knowledge retrieval.” Symposium on Memory, Midwestern Psychological Association, Chicago, Illinois, April 30, 1993.
- “Visual Cortex: Recognition.” Behavioral Neurology Course: Anatomical/Behavioral Correlates. 42nd Annual Meeting of the American Academy of Neurology, April, 1990, Miami.
- “Music and the Brain.” Dinner Seminar, 42nd Annual Meeting of the American Academy of Neurology, April, 1990, Miami.
- “Visual Recognition and Its Disorders.” Orton Society, October 1988, Chicago, Illinois.
- “Neuropsychological testing: An update on the evaluation of aphasic patients.” Breakfast seminar, 40th Annual Meeting of the American Academy of Neurology, April, 1988, Cincinnati.
- “Covert Recognition of Familiar Faces and Other Visual Stimuli by Prosopagnosics.” Massachusetts Institute of Technology—Health Sciences Program, August 1987, Cambridge, Massachusetts.
- “Neuropsychological Assessment.” Breakfast seminar, 39th Annual Meeting of the American Academy of Neurology, April, 1987, New York.
- “The neuropsychology and neuroanatomy of learning disabilities.” Northwest Regional Workshop on Learning Disabilities, Spokane, Washington, September 28-29, 1984.

Clinical and Research Teaching

- Leader of **Cognitive Neuroscience Morning Meeting**, a twice-weekly meeting involving staff of Benton Neuropsychology Laboratory and the Division of Cognitive Neuroscience, including psychologists, neurologists, neuroscientists, postdoctoral students, residents, medical students, and graduate students. The meeting features presentations of recent research articles, progress reports from members of the Laboratory, and presentations of patient cases from the neuropsychology clinic. The meeting has a formal course assignment (132:365).
- Training of psychologists, fellows, postdoctoral students, residents, medical students, and graduate students in the administration and interpretation of neuropsychological and psychological tests, and in the preparation of consultation reports.
- Teaching of forensic neuropsychology, including record review, neuropsychological assessment, report preparation, and deposition and courtroom testimony.
- Instructor: Introduction to Neuropsychological Assessment, Advanced Neuropsychological Assessment (course offered continuously)

IX. OTHER TEACHING ACTIVITIES

Teaching Interests

Brain-behavior relationships
 Neuropsychological assessment
 Clinical psychological assessment
 Forensic neuropsychology
 Psychophysiology

X. OTHER PROFESSIONAL ACTIVITIES

Editorships

2002 - 2014 Action Editor, *Cortex*
 2003 - 2011 Co Editor-in-Chief, *Journal of Clinical and Experimental Neuropsychology*
 2003 - 2010 Associate Editor, *Archives of Clinical Neuropsychology*
 2004 - 2012 Action Editor, *International Journal of Psychophysiology*
 2005 - 2010 Action Editor, *Brain and Language*
 2007 - 2014 Associate Editor, *Neuropsychology*
 2008 - 2012 Section Editor, Social and Affective Neuroscience, *Neuropsychologia*

2011 - present Editor-in-Chief, *Journal of Clinical and Experimental Neuropsychology* (JCEN receives approximately 300 submissions per year)

Editorial Boards: *Journal*, Year appointed – Year rotated off (active if no end year given)

Cognitive and Behavioral Neurology (formerly *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*), 1992
Developmental Neuropsychology, 1994 – 2008
Journal of Clinical and Experimental Neuropsychology, 1995 - 2003
Neuropsychologia, 1995
International Journal of Psychophysiology, 1996
Archives of Clinical Neuropsychology, 1998
Journal of Psychopathology and Behavioral Assessment, 2000
Cortex, 2000
Neuropsychology, 2000
The Clinical Neuropsychologist, 2002 – 2010
Cognitive Neuropsychology, 2003
Brain and Language, 2005 – 2010
Journal of Experimental Biology and Medicine, 2006
Social Cognitive and Affective Neuroscience, 2006
Journal of the International Neuropsychological Society, 2006
American Psychologist, 2015

National and International Committees, Review Boards and Study Sections

Member, Board of Directors, Association of Postdoctoral Programs in Clinical Neuropsychology, elected February, 2011 (four year term).
Member, Examination Committee for Professional Practice in Psychology (EPPP), Association of State and Provincial Psychology Boards (North America). Elected January, 2009-2016.
Permanent Member, Biomedical Research and Research Training (Training in Workforce Development) Subcommittee A Study Section, National Institute of General Medical Sciences, 2009 – 2013.
Member, National Eye Institute Special Emphasis Panel, Predoctoral Training in Neuroscience (T32 mechanism review) (A. Schaffner, PhD, SRA). October 24, 2010.
Chair, National Institute of Neurological Disorders and Stroke Special Emphasis Panel, Predoctoral Training in Neuroscience (T32 mechanism review) (P. Wiethorn, PhD, SRA). November 2, 2009.
Member, NIH/NIMH Special Emphasis Panel (K99/R00 mechanism) (M. Libbey, PhD, SRA). February 23, 2009.
Member, National Institute of General Medical Sciences Special Emphasis Panel, Predoctoral Training at the Interface of the Behavioral and Biomedical Sciences (T32 mechanism review) (M. Temple-O'Connor, PhD, SRA). February 5, 2009.
Member, National Institute of Neurological Disorders and Stroke Special Emphasis Panel, Predoctoral Training in Neuroscience (T32 mechanism review) (P. Wiethorn, PhD, SRA). December 3, 2008.
Member, National Institute of General Medical Sciences Special Emphasis Panel, Predoctoral Training at the Interface of the Behavioral and Biomedical Sciences (T32 mechanism review) (M. Temple-O'Connor, PhD, SRA). January 15, 2008.
Member, NIH/NIMH Special Emphasis Panel (K99/R00 mechanism) (H. Haigler, PhD, SRA). July, 2008; March, July, November, 2007; November, 2006.
Member, National Institute of General Medical Sciences Special Emphasis Panel, Predoctoral Training at the Interface of the Behavioral and Biomedical Sciences (T32 mechanism review) (M. Temple-O'Connor, PhD, SRA). April 10, 2007.

Member, NIH Special Study Section, ZAG1 Z1J-1, “Foundations of Economic Behavior” (R21 mechanism review) (Wilbur Hadden, PhD, SRA). March, 2007.

Member, Committee on Institutional Cooperation Graduate Recruitment and Retention Workshop, November 15-16, 2006, Columbus, Ohio.

Councilor, Association of Neuroscience Departments and Programs, 2006-2009 (elected October, 2006).

Chair, Cognitive Neuroscience Study Section, National Institute of Health Center for Scientific Review, 2004 - 2006.

Permanent Member, Cognitive Neuroscience Study Section, National Institute of Health Center for Scientific Review, 2002 – 2006. (Regular Member 2001 – 2002).

Chairperson, National Institute of General Medical Sciences Special Emphasis Panel (T32 mechanism review) (M. Temple-O’Connor, PhD, SRA). November 6, 2006.

Member, NIH Study Section, “Cognition and Perception” (Cheryl Wiggs, PhD, SRA). October, 2006.

Member, NIH Special Study Section, “Training for a New Interdisciplinary Research Workforce (N. Braveman, PhD, SRA). July, 2006.

Review Panel Member, National Science Foundation Cognitive Neuroscience grant review group, May, 2006.

Ad Hoc Reviewer, National Institute of Neurological Disorders and Stroke, Board of Scientific Counselors (Story Landis, PhD, Director). Cognitive Neuroscience Section (Jordan Grafman, PhD, Director), January 23-25, 2005.

Chairperson, Center for Scientific Review Special Emphasis Panel (M. Steinmetz, PhD, Administrator). March 29, 2004.

Member, NIH/NIDDK Special Study Section, “Training for a New Interdisciplinary Research Workforce (Ned Feder, MD, SRA). August, 2004.

Ad Hoc Reviewer, National Institute of Mental Health, Board of Scientific Counselors (Tom Insel, PhD, Director). Cognitive Neuropsychology Section (Alex Martin, PhD, Director), Laboratory of Brain and Cognition (Leslie Ungerleider, PhD, Director). April 28-29, 2003.

Board of Directors, International Neuropsychological Society, 2003-2006.

Member (ad hoc), ZEY1 VSN (07) Study Section, National Eye Institute Special Emphasis Panel, National Institute of Health Center for Scientific Review, August, 2002.

Member, Special Emphasis Panel, National Institute on Aging (Alicja Markowska, PhD, Scientific Review Administrator), April 8-9, 2002.

Member, Ethics Subcommittee of Division 40 of the American Psychological Association, January 2001 through December 2003.

Chairperson, Special Emphasis Panel: National Institute of Health Center for Scientific Review, November, 2000 (Cheryl Wiggs, PhD, Administrator).

Primary Reviewer, Cognitive Approaches to Addictive Processes Review, Special Emphasis Panel (Dr. James Becker, Chair), National Institute on Drug Abuse, November, 2000.

Special Review Committee, American Institute of Biological Sciences: FY 99 Department of Defense Congressional Interest Research on Health-Related Topics. September, 2000.

Special Review Committee, American Institute of Biological Sciences (R. Crosland, PhD, chair): FY 99 Department of Defense Congressional Interest Research on Health-Related Topics. January, 2000.

Primary Reviewer, Center for Scientific Review Special Emphasis Panel (Dr. William Anderson, Chair), National Institute of Health, Center for Scientific Review, April, 1999.

Study section, NINDS (Dr. Neal Barmack, chair): National Institute of Neurological Disorders and Stroke Special Emphasis Panel. October 22-23, 1998.

Special Review Committee, American Institute of Biological Sciences (L. Heiden, PhD, chair): “Early detection of neurodegenerative disease.” September 23-25, 1998.

Special Review Committee, American Institute of Biological Sciences (L. Heiden, PhD, chair): “Early detection of neurodegenerative disease.” December 10-12, 1997.

American Board of Professional Psychology - American Board of Clinical Neuropsychology
 Work sample grader, 1992-present.
 Item Writer, written examination, 1994-present.

Board Member, American Academy of Clinical Neuropsychology, 1996-present.

Ad Hoc Reviewer of the Division of Intramural Research, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Board of Scientific Counselors (Story C. Landis, PhD, Director). Medical Neurology Branch, Laboratory of Cognitive Neuroscience. May 19-21, 1996.

Nominations Committee member, International Neuropsychological Society, 1995-1996.

Member, External Advisory Committee, Learning Disabilities Research Center, Kennedy Krieger Institute, Baltimore, Maryland (Martha Bridge Denckla, MD, Director), 1995

Special Review Committee, National Institute of Mental Health Initial Review Group (G. Bruder, PhD, chair): “Depression and anxiety as neural control processes.” October 31, 1995.

Special Review Committee, National Institute of Mental Health Initial Review Group (G. Bruder, PhD, chair): “Cerebral asymmetry, emotion and psychopathology.” March 28, 1995.

Special Review Committee, National Institute of Health Request for Applications: “Memory and emotion.” July, 1994.

Study section, NINDS (Dr. Howard Weinstein, chair): “Neurobiology of cognition.” November, 1993.

Board member, Veterans Administration Merit Review Board for Neurobiology, 1991-1994.

XI. CLINICAL ACTIVITIES

- 1/85 Duties and responsibilities associated with the position of Chief of **Benton Neuropsychology Laboratory** in the Department of Neurology. These include:
- a. Supervision and teaching of fellows, post-doctoral students, residents, medical students, graduate students, and technicians in the Neuropsychology Clinic, Consultation Service, and Cognitive Rehabilitation Program.
 - b. Attending of patients evaluated in the Neuropsychology Clinic, including scheduling of evaluations, selection of assessment instruments, supervision of test administration, review of history and pertinent findings from other sources, review of neuropsychological test data, and conduction of feedback session with patient. Also, writing or supervision of writing of consultation reports.
- 10/91 Member, **Midwest Neuropsychology Consortium of Postdoctoral Fellowship Programs**. Agency established to provide a national association of postdoctoral programs in clinical neuropsychology that are under the direction of Diplomates in Clinical Neuropsychology.
- 2/94 Founding Member, **Association of Postdoctoral Programs in Clinical Neuropsychology (APPCN)**. Bylaws of the APPCN approved 2/2/94.

XII. COLLEGIATE, UNIVERSITY, UNIVERSITY HOSPITALS, AND OTHER COMMITTEES

- Member, **Search Committee** for Neuroscience Institute Director, Carver College of Medicine, 2015-2016.
- Member, **Human Toxicology Program Review Committee**, 2014.
- Member, **Department of Neurosurgery Review Committee**, 2012.
- Member, **Search Committee** for Head, Department of Psychiatry, 2010.
- Member, **Responsible Conduct of Research Task Force Committee**, 2008.
- Member, **Department of Neurosurgery Review Committee**, 2007.
- Member, **Department of Pharmacology Review Committee**, 2005.
- Member, **Research Advisory Committee**, University of Iowa College of Medicine, University of Iowa, 2000-present.
- Member, **Department of Psychiatry Review Committee**, 2001.
- Chair, **Neuroscience Comprehensive Exam Committee**, Neuroscience Program, University of Iowa, 1998-2001 (member from 1996-1998).
- Member, **Neuroscience Steering Committee**, Neuroscience Program, University of Iowa, 1998-2001.
- Member, Search Committee for **Director of the Office of Consultation and Research in Medical Education Advisory Committee**, University of Iowa College of Medicine, 1996 (Peter Densen, MD, Chair).
- Member, **Ad Hoc Committee** to review the **Office of Consultation and Research in Medical Education Advisory Committee**, University of Iowa College of Medicine, 1995.
- Member, **Iowa Psychological Association Ad Hoc Committee** on new law governing release of psychological test data, 1994-1995.
- Member, **Executive Committee of the Center on Aging**, University of Iowa College of Medicine, 1994-1998.
- Member, **Curriculum Committee**, Neuroscience Program, University of Iowa, 1994-1999.
- Chair, **Office of Consultation and Research in Medical Education Advisory Committee**, University of Iowa College of Medicine, 1993-1995 (member 1991-1993).
- Senator, **University of Iowa Faculty Senate**, University of Iowa, 1994-1995 (College of Medicine tenured faculty position).
- Member, **Iowa Psychological Association Ethics Committee**, 1992-1998.

XIII. HONORS AND AWARDS

Notre Dame Scholar	U. of Notre Dame	1975-79
Dailey Memorial Scholarship	U. of Notre Dame	1975-79
Scholarship for Graduate Teaching	U. of Iowa	1979-82
B.A. degree <i>magna cum laude</i>	U. of Notre Dame	1979
M.A. degree <i>summa cum laude</i>	U. of Iowa	1981
Ph.D. degree <i>summa cum laude</i>	U. of Iowa	1982
Post-Doctoral Fellowship in Behavioral Neurology and Neuropsychology	U. of Iowa College of Medicine	1982-84
Developmental Neuropsychology Award	Rita Rudel Foundation	1988-90
Educational Development Grant	U. of Iowa College of Medicine	1990
Fellow , American Psychological Association, Division 40 (Clinical Neuropsychology)	American Psychological Association	elected 1993
Nomination for "Early Career Contributions to Clinical Neuropsychology"	National Academy of Neuropsychology	1993-1994

Fellow , American Psychological Society	American Psychological Society	elected 1995
Election to the Board of the American Academy of Clinical Neuropsychology	American Academy of Clinical Neuropsychology	9/2/96
Fellow , National Academy of Neuropsychology	National Academy of Neuropsychology	elected 2000
Fellow , Society of Clinical Psychology	American Psychological Association	elected 2005
SROP/McNair Mentoring Award	Graduate College, U. Iowa	2009
Regents Award for Faculty Excellence	Board of Regents, State of Iowa	2009

XIV. FINANCIAL RESOURCES (GRANTS AND CONTRACTS)

Completed Grants and Contracts

1983-1986 Principal Investigator, “Facial Recognition in Humans.” Project in Program Project Grant NINCDS P01 NS 19632 (*Anatomical Substrates of Complex Behavior*, A.R. Damasio, MD, PhD, Program Director).

1986-1991 Principal Investigator, “Facial Recognition in Humans.” Project in Program Project Grant NINCDS P01 NS 19632 (*Anatomical Substrates of Complex Behavior*, A.R. Damasio, MD, PhD, Program Director).

Other roles in Program Project:

- (1) Assistant to the Program Director
- (2) Co-Investigator: Anatomical Basis of Amnesia
- (3) Co-Investigator: Anatomical Basis of Complex Visual Disturbances
- (4) Co-Investigator: Language Defects Related to Differential Damage in a Language-Devoted Anatomical Network
- (5) Co-Investigator: Experimental Anatomy of Language-Area Homologues in Non-Human Primates
- (6) Co-Principal Investigator: Anatomical Basis of Disorders of Executive Control
- (7) Principal Investigator: Core Project: Anatomical Substrates of Complex Behavior: Neuropsychological and Behavioral Studies

1991-1996 Principal Investigator, “Facial Recognition in Humans.” Project in Program Project Grant NINDS P01 NS 19632 (*Anatomical Substrates of Complex Behavior*. A.R. Damasio, MD, PhD, Program Director).

Other roles in Program Project:

- (1) Assistant to the Program Director
- (2) Principal Investigator: Neuropsychology Core Project
- (3) Co-Principal Investigator: Anatomical Basis of Memory
- (4) Co-Principal Investigator: Anatomical Basis of Executive Function
- (5) Co-Investigator: Anatomical Basis of Vision
- (6) Co-Investigator: Anatomical Basis of Language

- 1996-2001 Principal Investigator, “Anatomical Basis of Face Processing and Emotion.” Project in Program Project Grant NINDS P01 NS 19632 (*Anatomical Substrates of Complex Behavior*, A.R. Damasio, MD, PhD, Program Director).
- Other roles in Program Project:
- (1) Assistant to the Program Director
 - (2) Principal Investigator: Core Units, Neuropsychology.
 - (3) Co-Principal Investigator: Anatomical Basis of Memory
 - (4) Co-Principal Investigator: Anatomical Basis of Language
 - (5) Co-Principal Investigator: Anatomical Basis of Executive Functions (Reasoning and Decision-Making)
- 2001-2012 Principal Investigator, “Anatomical Basis of Memory and Language.” Project in Program Project Grant NINDS P01 NS 19632 (*Anatomical Substrates of Complex Behavior*, A.R. Damasio, MD, PhD, Program Director).
- Other roles in Program Project:
- (1) Subcontract PI (since 2006, at Iowa)
 - (2) Co-Investigator: Cognitive and Behavioral Consequences of Focal Brain Lesions Acquired During Development
 - (3) Co-Principal Investigator: Core Units
- 1991-1992 Co-Investigator, Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, “Incidence of Hospitalization and Related Clinical Problems in a Population of Alzheimer's Disease Patients,” Robert B. Wallace, Principal Investigator.
- 1990-1993 Co-Investigator, Office of Naval Research Grant, “Neural Systems Underlying Visual Recognition in Humans.”
- 1988-1990 Principal Investigator, Rita G. Rudel Foundation Award in Developmental Neuropsychology, “Developmental Defects of Facial Recognition.”
- 1989-1992 Co-Principal Investigator, “Testing and Further Development of a New Model for the Neural Basis of Cognition: Implications for the Understanding of Brain Diseases.” The Mathers Foundation, A. R. Damasio, Program Director.
- 1987-1990 Co-Investigator, NIA Grant “Alzheimer Disease Patient Registry, (ADRP), Dr. Robert Wallace, Principal Investigator.
- 1994-1996 Co-Investigator, “Health Assessment of Persian Gulf War Veterans from Iowa.” Jack Kelly, Program Director; David Schwartz, Principal Investigator.
- 1995-2000 Consultant, Department of Defense Grant “Illness in Persian Gulf War Veterans.” Bradley N. Doebbeling, MD, Principal Investigator.
- 1997-2002 Principal Investigator, “Neural Systems Underlying Retrieval of Words for Actions and Spatial Relationships, in English.” Project in NIDCD Center Grant (*Neural Correlates of Lexical Processing in English & ASL*, A.R. Damasio, MD, PhD, Program Director).

Other roles in Center Grant:

(1) Principal Investigator: Core Units, Neuropsychology.

(2) Co-Investigator: Neural Systems Underlying Retrieval of Words for Concrete Entities, in English

(3) Co-Investigator: Neural Systems Underlying Retrieval of Words for Concrete Entities and Actions, In Brain-Damaged English Speakers

- 1996-1999 Co-Investigator, "A Neuropsychiatric Study of Childhood Stroke." National Alliance for Research in Schizophrenia and Affective Disorders. Jeffrey Max, MD, Principal Investigator.
- 1997-2000 Co-Investigator, "The neuropsychology of psychosis in Alzheimer's disease." National Institute of Mental Health. Jane Paulsen, PhD, Principal Investigator.
- 1998-2001 Consultant, "Cognitive and neural mechanisms of substance abuse." National Institute of Drug Abuse. A. Bechara, PhD, Principal Investigator.
- 1998-2003 Consultant, "Neuroanatomical substrates of emotional memory in humans." National Institute of Mental Health. R. Adolphs, PhD, Principal Investigator.
- 1999-2004 Co-Investigator, "Hypothermia during intracranial aneurysm surgery." National Institute of Neurological Disorders and Stroke. Michael Todd, MD, Principal Investigator.
- 2005-2008 Principal Investigator, 5 R25 MH076766, "Neurobiology of Disease." National Institute of Mental Health.

BCS 0722005 (NSF)

"Evolutionary, Developmental, and Neurobiological Sources of Moral Judgments"

Project Period: 9/1/07 – 8/31/10

Role on Project: Subcontract PI (at Iowa)

The purpose of this project is to map the neural substrates of moral judgments in humans, using the lesion method.

1 R01 DA023051-05A2 (NIH-NIDA)

"Changes in Addictive Behavior after Brain Lesions" (Project PI: Antoine Bechara, PhD)

Project Period: 7/01/08 – 6/30/13

Role on Project: Subcontract PI (at Iowa)

The purpose of this project is to investigate how focal damage to different brain regions might cause patients to lose their urge to use addictive substances (e.g., nicotine, caffeine) and to engage in addictive behaviors.

5 R01 NS058658-05 (NIH-NINDS)

"Integration & Validation of Lesion Methods for Cognitive Neuroscience" (Project PI: Tom Grabowski, MD)

Project Period: 2/1/09 – 7/31/14 (no-cost extension)

Role on Project: Subcontract PI (at Iowa)

The purpose of this project is to compare and contrast different methods for quantifying brain lesions and studying brain-behavior relationships with a lesion-deficit approach.

1 R01 MH062500-07A1 (NIMH)

"The Hippocampal System and Relational Memory Processes" (Project PI: Neal Cohen, PhD)

Project Period: 8/01/11 – 7/31/16

Role on Project: Subcontract PI (at Iowa)

The purpose of this project is to investigate the neural substrates of relational memory, using a combination of the lesion method and functional imaging.

Active Grants and Contracts

2 T32 NS007421-13 (NIH-NINDS)

“Neuroscience Training Program”

Project Period: 07/01/99 – 06/30/19

Role on Project: PI

The purpose of this training grant is to train Ph.D. candidate students in biomedical research.

1 T32 GM108540-01 (NIH-NIGMS)

“Mechanisms of Health and Disease at the Behavioral-Biomedical Interface”

Project Period: 07/01/14 – 07/31/19

Role on Project: Co-PI

The purpose of this training grant is to train Ph.D. candidate students at the interface of behavioral and biomedical research.

1 P50 MH094258-06 (NIMH)

“The Neurobiology of Social Decision-Making” (Project PI: Ralph Adolphs, PhD)

Project Period: 7/1/12 – 4/30/17

Role on Project: Collaborator (paid effort for neuropsychological consultation)

The purpose of this project is to investigate the neurobiology of social decision-making in various neurological, psychiatric, and developmental conditions.

Spastic Paralysis Research Foundation – Kiwanis International

“Alzheimer’s disease”

Project Period: Ongoing (\$20,000/year, renewable annually)

Role on Project: PI

The purpose of this project is to conduct neuropsychological research on the diagnosis, management, and treatment of Alzheimer’s disease and other dementias.

James S. McDonnell Foundation

#220020387 – Understanding Human Cognition - Collaborative Award (UHC-Collab)

“Vulnerable hubs in human brain networks: A new approach to neurological disease”

Approved Budget Amount: \$1,502,100 over 3 years

Grant Period: 8/01/14 - 7/31/17

Role on Project: PI

The purpose of this project is to investigate how damage to different critical brain hubs causes long-term disruption of cognitive and behavioral functioning in humans.

1 R56 AG046539-01A1 (NIH-NIA)

“Stress & Decision-Making in Older Persons: Toward a Neurobehavioral Phenotype” (Project PI: Natalie Denburg, PhD)

Project Period: 8/01/15 – 8/31/17

Role on Project: Co-I

The purpose of this project is to investigate how stress affects decision-making in older persons.

1 P50 MH094258-06 (NIMH)

“The Neurobiology of Social Decision-Making: Social inference and context” (Overall P50 PI: R. Adolphs, Caltech)

07/01/2017-06/30/2022

Role on Project: PI, Project 5, “Social decision-making and social inference in the prefrontal cortex—a lesion approach”

The purpose of this project is to investigate the neurobiology of social decision-making in various neurological, psychiatric, and developmental conditions.

Pending Grants

1 R01 MH102554-01A1 (NIMH)

“Lesion and fMRI Approaches to Understanding Recovery of Brain Systems for Emotion”

Role on Project: PI

The purpose of this project is to investigate how patients with focal damage recover from emotional impairments, using lesion-deficit and fMRI approaches.

1 R01 NS087999-01A1 (NINDS)

“Using Lesion Probes to Understand Recovery and Reorganization of Memory Networks”

Role on Project: PI

The purpose of this project is to investigate how patients with focal damage recover from memory impairments, using lesion-deficit and fMRI approaches.

XV. PHYSICAL FACILITIES

Office: 2206 RCP (Neurology)

W317 (Psychology)

202 CMAB (College of Medicine Administration)

Neuropsychology Laboratory - Room A: 2205 RCP

Psychophysiology Laboratory - Room B: 2203 RCP

XVI. PERSONNEL CURRENTLY SUPERVISED

- A. Cognitive Neuroscience Postdoctoral Fellows (1)
- B. Clinical Neuropsychologists (4)
- C. Neuropsychology Post-Doctoral Residents (3)
- D. Neuropsychology Technicians (3)
- E. Graduate and Medical Students (8)
- F. Undergraduate Students (3)
- G. Laboratory Technicians (3)
- H. Project Coordinators (1)
- I. Secretaries (2)

XVII. THESES DIRECTED, POSTDOCTORAL FELLOWS SUPERVISED, OTHER STUDENT SUPERVISION

Ph.D. Committees

1989

Committee member, **Robin Fleischer**, “The effects of mood on memory for social information.”

Department of Psychology, University of Iowa (Donald Carlston, PhD, Chair).

1992

Committee member, **Lynn P. Lowe**, “The relationship between Type II diabetes mellitus and cognitive function in older rural native Americans.” Department of Preventive Medicine and Environmental Health, University of Iowa (Robert Wallace, MD, Chair).

Committee member, **Dawn C. Roberts**, “Emotional distress, expression of emotion, and immune function in cancer patients: A test of the mechanism between psychological responses and cancer progression.” Department of Psychology, University of Iowa (Barbara L. Andersen, PhD, Chair).

1993

Committee Co-Chair (with Edward Wasserman, PhD), **Carol De Volder**, “Retrospective and prospective memory processes depend on differently distributed neural systems.” Departments of Psychology and Neurology, University of Iowa.

Committee member, **Ann M. Furuseth**, “Children's orienting responses to relatively permanent sets of significant stimuli.” Department of Psychology, University of Iowa. (Don C. Fowles, PhD, chair)

1994

Committee member, **Julie A. Suhr**, “Executive functioning deficits in schizotypal college students.” Department of Psychology, University of Iowa (Don C. Fowles, PhD, Chair).

Committee Co-Chair (with A.R. Damasio, MD, PhD and Gary Van Hoesen, PhD), **Ching-Chiang Chu**, MD, “Pathology in the autonomic-related limbic cortices in Alzheimer's Disease and its possible behavioral roles.” Neuroscience Program, University of Iowa.

Committee Co-Chair, **Joseph LeGrand**, PhD, “The Complex Figure Test in neuropsychological assessment: Normative observations.” Departments of Psychology and Neurology, University of Iowa.

1995

Committee member, **Eric Poole**, “MMPI assessment of malingered emotional distress in head trauma patients.” Department of Psychology, University of Iowa (Jacob Sines, PhD, Chair).

1999

Committee Co-Chair (with A.R. Damasio, MD, PhD, and Gary Van Hoesen, PhD), **Josef Parvizi**, MD, “The parabrachial nucleus in Alzheimer's disease.” Neuroscience Program, University of Iowa. (winner of D.C. Priestestersbach Dissertation Award)

2000

Committee member, **Julie Wilson (Gottselig)**, “Human neural systems for perceiving emotion in music.” Neuroscience Program, University of Iowa (Ralph Adolphs, PhD, Chair).

Committee member (External Examiner), **Andra Smith**, “An fMRI investigation of frontal lobe functioning in psychopathy and schizophrenia during a go/no go task.” Department of Neuroscience, University of British Columbia (Robert Hare, PhD, Chair).

Committee member, **Andrea Heberlein**, “Human neural systems for social cognition.” Neuroscience Program, University of Iowa (Ralph Adolphs, PhD, Chair).

2004

Committee member, **Sara Dolan**, “Familial risk, personality, alcohol expectancies, and prefrontal cortex dysfunction and their relationship to alcohol outcomes.” Department of Psychology, University of Iowa. (Peter Nathan, PhD, Chair).

Committee Co-chair, **Erica Johnsen**, “Neuroanatomical correlates of emotional responses to music.” Department of Psychology, University of Iowa (Susan Lutgendorf, PhD, Co-Chair).

Committee member, **Brian Nolan**, “Neurobiological mechanisms of conditioned excitation and conditional inhibition of the eyeblink response in rats.” Neuroscience Program, University of Iowa (John Freeman, PhD, Chair).

2005

Committee member, **Joel Feekes**, “Microvascular territories of human basal forebrain area.” Neuroscience Program, University of Iowa (Martin Cassell, PhD and Gary Van Hoesen, PhD, Co-Chairs).

Committee member, **Karin (Ferneyhough) Hoth**, “Unawareness in Huntington’s Disease.” Department of Psychology, University of Iowa. (Jane Paulsen, PhD, and Leanna Clark, PhD, Co-Chairs).

Committee Chair, **Eduardo Vianna**, “The role of the gut in emotions and feelings.” Neuroscience Program, University of Iowa.

Committee member, **David Rudrauf**, “Aspects of the dynamics of the cerebral cortex during emotion and feeling in human: Contribution of MEG.” Neuroscience Program, University of Iowa and Cognitive Neurosciences, University of Paris 6 – Pierre et Marie Curie (Antonio Damasio, MD, PhD and Bernard Renault, PhD, Co-Chairs). (nominated for D.C. Spriestersbach Dissertation Award)

Committee member, **Joseph A. Buckwalter V**, “Neural systems of the medial parietal cortex (precuneus) of the macaque monkey (*Macaca fascicularis*).” Neuroscience Program, University of Iowa (Gary W. Van Hoesen, PhD, Chair).

Committee member, **Melissa Duff**, “Semantic memory and amnesia: Facilitating new learning through collaborative discourse.” Department of Speech and Hearing Science, University of Illinois (Neal Cohen, PhD, and Adele Proctor, ScD, Co-Chairs).

Committee member, **Debbie Hannula**, “The long and the short of it: Relational memory impairments in amnesia, even at short lags.” Department of Psychology, University of Illinois (Neal Cohen, PhD, Chair).

Committee member, **Alex Casillas***, “Decision making, disinhibition, and impulsivity: Combining multiple perspectives.” Department of Psychology, University of Iowa (Lee Anna Clark, PhD, Chair).¹

2006

Committee member, **Will Graves**, “Distinguishing the neural basis of lexical access.” Neuroscience Program, University of Iowa (Thomas Grabowski, MD, Chair).

Committee Chair, **Michael Koenigs**, “A novel role for ventromedial prefrontal cortex in emotion and decision-making: Lesion studies of moral judgment, economic choice, and brand preferences.” Neuroscience Program, University of Iowa. (Awarded 2007 DC Spriestersbach Outstanding Dissertation Prize, University of Iowa) (winner of D.C. Spriestersbach Dissertation Award)

¹ *Asterisk denotes student from underrepresented minority group.

Committee member, **Amy Elizabeth Trautwein**, “A neurophilosophical study of the taxonomy and epistemology of memory.” Department of Philosophy, University of Iowa (Richard Fumerton, PhD, Chair).

Committee member, **Nasir H. Naqvi**, “The effects of ventromedial prefrontal cortex lesions on emotional responses to cigarette smoking.” Neuroscience Program (MSTP student), University of Iowa (Antoine Bechara, PhD, Chair).

Committee member, **Beth Turner**, “Sex, drugs, and driving: The effects of marijuana.” Neuroscience Program, University of Iowa (Daniel O’Leary, PhD, Chair).

2007

Committee Co-Chair, **Jessica Wisnowski**, “The specificity and severity of visual recognition impairments following focal brain damage.” Department of Psychology, University of Iowa (Steve Anderson, PhD, Co-Chair).

Committee member, **Joshua Weller**, “The role of affect in decisions under varying levels of uncertainty: Converging evidence from neurological and temperament perspectives.” Department of Psychology, University of Iowa (Irwin Levin, PhD, Chair).

Committee member, **Vanessa Shaw***, “The effects of lexical stress on noun and verb retrieval in aphasia.” Department of Speech and Hearing, University of Iowa (Kirrie Ballard, PhD and Karla McGregor, PhD, Co-Chairs).

2008

Committee member, **Aaron Boes**, “Neuroanatomical correlates of externalizing behavior.” Neuroscience Program, University of Iowa (Peg Nopoulos, MD, Chair). (nominated for D.C. Spriestersbach Dissertation Award)

Committee Chair, **Sahib Khalsa**, “The effect of meditation on awareness and regulation of internal body states.” Neuroscience Program (MSTP), University of Iowa.

Committee member, **Lilian Dindo**, “Dual pathways for psychopathy: Relations with skin conductance reactivity.” Department of Psychology, University of Iowa (Don Fowles, PhD, Chair).

Committee Co-Chair, **Christopher Kovach**, “A generalized linear model for eye movements.” Neuroscience Program, University of Iowa (Ralph Adolphs, PhD, Co-Chair).

Committee Co-Chair, **Unni Jensen**, “Investigating future and past episodic event construction.” Neuroscience Program, University of Iowa (Ralph Adolphs, PhD, Co-Chair).

Committee Chair, **Diana Gallegos***, “Learning in Alzheimer’s disease is facilitated by social interaction and common ground.” Neuroscience Program, University of Iowa.

Committee member, **Jeon Small***, “Understanding communication between caregivers and persons with moderate Alzheimer’s disease.” College of Nursing, University of Iowa (Martha Craft-Rosenberg, RN, PhD, Chair).

2009

Committee member, **Robert D. Lutzman**, “Interrelations among youth temperament, executive functions, and externalizing behaviors.” Department of Psychology, University of Iowa (Lee Anna Clark, PhD, Chair).

Committee Co-Chair, **Joshua A. Hopps**, “Pattern and content of neuropsychological referral questions across 25 years of outpatient visits in a hospital-based clinic.” Department of Counseling Psychology, University of Iowa (Elizabeth Altmaier, PhD, Co-Chair).

Committee member, **David Driscoll**, “The effects of prefrontal cortex damage on the regulation of emotion.” Neuroscience Program, University of Iowa (Steven Anderson, PhD, Chair).

Committee member, **David E. Warren**, “Medial temporal lobe structures contribute to on-line processing.” Department of Psychology, University of Illinois (Neal Cohen, PhD, Chair).

Committee member, **Katie Croft**, “Exploring the role of ventromedial prefrontal cortex in human social learning: A lesion study.” Neuroscience Program, University of Iowa (Steve Anderson, PhD, and Ralph Adolphs, PhD, Co-Chairs).

Committee Co-Chair, **Janelle Beadle**, “The neuroanatomical basis of empathy: Is empathy impaired following damage to the ventromedial prefrontal cortex?” Neuroscience Program, University of Iowa (Sergio Paradiso, MD, PhD, Co-Chair).

2010

Committee Co-Chair, **Katya (Lamskova) Keifer**, “Performance of patients with ventromedial prefrontal, dorsolateral prefrontal and non-frontal lesions on the Delis-Kaplan Executive Functioning System.” Department of Counseling Psychology, University of Iowa (Elizabeth Altmaier, PhD, Co-Chair).

Committee member, **Dana Figlock**, “Impaired decision-making as a risk factor for college student drinking.” Department of Psychology, University of Iowa (Peter Nathan, PhD, Chair).

Committee Chair, **Timothy Koscik**, “Social inference and the evolution of the human brain.” Neuroscience Program, University of Iowa.

Committee Co-Chair, **Kanchna Ramchandran**, “The neuropsychological correlates of leadership effectiveness.” Neuroscience Program, University of Iowa (Kenneth Brown, PhD, Co-Chair).

Committee member, **Chi-Wing Ng**, “Behavioral and neural correlates of auditory encoding and memory functions in rhesus macaques.” Department of Psychology, University of Iowa (Amy Poremba, PhD, Chair).

Committee Chair, **Rachel Casas***, “Interpreter-mediated neuropsychological testing of monolingual Spanish speakers: Does it have an effect on test scores?” Department of Psychology (Neuropsychology Subtrack), University of Iowa.

2011

Committee member, **Carissa Philippi**, “Towards a psychodynamic cognitive neuroscience: The self, its struggle, and the default mode network.” Neuroscience Program, University of Iowa (David Rudrauf, PhD, Chair).

Committee member, **Alexander Konkel**, “The effects of hippocampal amnesia on retrieval orientation and novelty processing.” Department of Psychology, University of Illinois (Neal Cohen, PhD, Chair).

Committee member, **Joshua Cosman**, “Task-specific learning supports control over attentional capture.” Neuroscience Program, University of Iowa (Shaun Vecera, PhD, Chair).

Committee Chair, **Bradley Thomas**, “A model of the neural bases of predecisional processes: The fronto-
limbic information acquisition network.” Neuroscience Program, University of Iowa.

2012

Committee Chair, **Justin Feinstein**, “Examination of the limbic system’s role in emotional experience
using a human lesion model.” Department of Psychology (Neuropsychology Subtrack),
University of Iowa.

Committee Chair, **Rupa Gupta**, “The effects of ventromedial prefrontal cortex damage on interpersonal
coordination in social interaction.” Neuroscience Program, University of Iowa. (runner up, Rex
Montgomery Dissertation Award)

Committee Chair, **Erik Asp**, “A neuroanatomical investigation of belief and doubt.” Neuroscience
Program, University of Iowa. (runner up, D.C. Spriestersbach Dissertation Award)

2013

Committee member, **Jonathan Power**, “Defining and describing the functional network organization of
the healthy human brain, with observations on development and disease.” Program in
Neuroscience, Washington University in Saint Louis (Camillo Padoa-Schioppa, PhD, Chair).

Committee member, **Rengin Firat**, “Apathetic racism theory: A neurosociological study of how moral
emotions perpetuate inequality.” Department of Sociology, University of Iowa (Steven Hitlin,
PhD, Chair).

2014

Committee Chair, **Natassia Gaznick***, “The role of the striatum in impulsivity and self-awareness:
Neuropsychological and functional neuroimaging approaches.” Neuroscience Program (MSTP),
University of Iowa.

Committee member, **Jake Kurzcek**, “Hippocampal contributions to language: An examination of
referential processing and narrative in amnesia.” Neuroscience Program, University of Iowa
(Melissa Duff, PhD, Chair).

Committee member, **Calvin Carter***, “Characterizing the role of primary cilia in neural progenitor cell
development and neonatal hydrocephalus.” Neuroscience Program, University of Iowa (Val C.
Sheffield, MD, Chair).

Committee Chair, **Matthew Calamia***, “Measuring apathy: An investigation of the internal structure of
apathy symptoms and their relationship with cognitive and functional impairments.” Department
of Psychology (Neuropsychology Subtrack), University of Iowa.

2015

Committee Chair, **Amy Belfi**, “A neuropsychological investigation of music, emotion, and
autobiographical memory.” Neuroscience Program, University of Iowa.

Committee member, **Dan Vatterott**, “Learning to overcome distraction.” Department of Psychology,
University of Iowa (Shaun Vecera, PhD, Chair).

Committee member, **Georgina Moreno***, “The effects of stress on decision making and the prefrontal
cortex among older adults.” Neuroscience Program, University of Iowa (Natalie Denburg, PhD,
Chair).

Committee member, **Kameko Halfmann**, “Emotion and decision-making in the aging brain.”
Neuroscience Program, University of Iowa (Natalie Denburg, PhD, Chair).

Committee member, **Jeffrey Plume***, “The role of LCMV strain in a congenital brain infection.”
Neuroscience Program, University of Iowa (Daniel Bonthius, MD, PhD, Chair).

Committee member, **A. Caglar Tas**, “The role of visual stability in representations of pre- and post-saccadic objects.” Department of Psychology, University of Iowa (Andrew Hollingworth, PhD, and Cathleen Moore, PhD, Co-Chairs).

Committee Co-Chair, **Matthew Sutterer**, “Plasticity and reorganization of brain networks subserving emotion and decision-making.” Neuroscience Program, University of Iowa. (Matthew Howard, MD, Co-Chair)

2016

Committee Chair, **Edmarie Guzmán-Vélez***, “Association between bilingualism and brain connectivity in older adults.” Department of Psychology (Neuropsychology Subtrack), University of Iowa.

Committee member, **Alexandre Tiriac**, “State-dependent processing of refference arising from self-generated movements in infant rats.” Department of Psychology, University of Iowa (Mark Blumberg, PhD, Chair).

Committee member, **Nathaniel Klooster**, “The hippocampus and semantic memory beyond acquisition: A lesion study of hippocampal contributions to the maintenance, updating, and use of remote semantic memory.” Neuroscience Program, University of Iowa (Melissa Duff, PhD, Chair).

Committee Chair, **Molly Meth**, “A survey of clinical neuropsychologists: What recommendations do they give to adult patients?” Department of Psychology (Neuropsychology Subtrack), University of Iowa.

Committee member, **Shelby Putt**, “A controlled experiment to test the effect of verbal language on brain activity patterning via functional near infrared spectroscopy during bifacial stone tool reduction.” Department of Anthropology, University of Iowa (Robert Franciscus, PhD, Chair).

Committee member, **Annie Tye**, “Cortical spreading depression upregulates calcitonin gene-related peptide expression in the ipsilateral cerebral cortex.” Neuroscience Program, University of Iowa (Andy Russo, PhD, Chair).

2017

Committee Chair, **Amanda (Ward) Brunette***, “Is episodic future thinking important for instrumental activities of daily living in neurological patients?” Department of Psychology (Neuropsychology Subtrack), University of Iowa.

Committee member, **Katherine Jonas**, “Potential test information for multidimensional tests.” Department of Psychology, University of Iowa (Kristian Markon, PhD, and Michael O’Hara, PhD, Co-Chairs).

2017 (in progress)

Committee member, **Timothy B. Weng**, “Cognitive affective neuroscience of physical activity and exercise behaviors in older adults.” Department of Psychology, University of Iowa (Michelle W. Voss, PhD, Chair).

Committee member, **Eric Emmons**, “Prefrontal control of striatal neuronal ensembles during elementary cognition.” Neuroscience Program, University of Iowa (Kumar Narayanan, MD, PhD, Chair).

Committee Chair, **Kelsey Spalding**, “The neural correlates and temporal dynamics of cued fear generalization.” Department of Psychology (Neuropsychology Subtrack), University of Iowa.

Committee Co-Chair, **Alaine Reshcke-Hernandez**, “Music therapy intervention in nursing home residents with Alzheimer’s disease and related dementias.” Department of Music, University of Iowa (Kate Gfeller, PhD, Chair).

Undergraduate Honors Thesis Supervision

2014 **Kelsey Warner**, “Damage to the ventromedial prefrontal cortex increases leniency of prison sentencing towards individuals who commit violent crimes.” Graduation with Honors in Psychology.

2015 **Brett Schneider**, “The temporal pole is a two-way convergence region for proper name retrieval.” Graduation with Honors in Psychology.

2016 **Jonah Heskje**, “Neural correlates of music processing.” Graduation with Honors in Biology and Psychology.

Graduate Students Currently Supervised

Molly Meth (Psychology, Clinical, PhD 2017)

Amanda Ward* (Psychology, Clinical, PhD expected 2018)

Kelsey Spalding (Psychology, Clinical, PhD expected 2019)

Justin Reber (Psychology, Behavioral and Cognitive Neuroscience, PhD expected 2018)

Katrina Okerstrom (shared supervision with Steve Anderson, PhD; Neuroscience, PhD expected 2019)

Marcie King (Psychology, Clinical, PhD expected 2021)

Mark Bowren* (Psychology, Clinical, PhD expected 2022)

Postdoctoral Fellows

1984-1986 **Kathleen Welsh**, PhD, Postdoctoral Fellow in Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.

1987-1988 **Richard Caselli**, MD, Neurology Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.

1987-1990 **Steven Anderson**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.

1989-1991 **Susan Dobbmeyer**, MD, Neurology Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.

- 1990-1991 **Jeffrey Saver**, MD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1992-1993 **Thomas Grabowski**, MD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1991-1995 **Antoine Bechara**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1992-1995 **Julie Fiez**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1993-1995 **Ralph Adolphs**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1995-1996 **Christine Logan**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1995-1996 **Rina Schul**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1995-1997 **Julie Suhr**, PhD, *Postdoctoral National Research Service Award*, "Use of progressive muscle relaxation in the management of the behavioral consequences of Alzheimer's disease." Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1997-1999 **Greg Cooper**, MD, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1998-1999 **Ashok Jansari**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1998-2000 **David Kemmerer**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1998-2001 **Pierre Rainville**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 1998-2002 **John Allen**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.

- 2000-2002 **Michael Reardon**, MD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2000-2003 **Tony Buchanan**, PhD, *Postdoctoral National Research Service Award*, “Neuroanatomical correlates of emotion in the aging brain.” Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2000-2003 **Coleman Martin**, MD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2005-2009 **Melissa Duff**, PhD, *Postdoctoral National Research Service Award*, “Neuroanatomical correlates of common ground.” Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2009-2014 **David Warren**, PhD, Postdoctoral Fellow in the Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2012-2015 **Taylor Abel**, MD, Resident Fellow in the Department of Neurosurgery, University of Iowa College of Medicine.
- 2014-2016 **Caterina Gratton**, PhD, Postdoctoral Fellow in the Department of Psychology, Washington University (co-mentor with Steven Petersen, PhD).
- 2016-2017 **Matthew Sutterer**, PhD, Postdoctoral Fellow in the Departments of Neurology and Neurosurgery, University of Iowa College of Medicine (shared supervision with Matthew Howard, MD).
- 2016-2017 **Yasunori Nagahama**, MD, Resident Fellow in the Department of Neurosurgery, University of Iowa College of Medicine.
- 2017-2018 **Oliver Flouty**, MD, Resident Fellow in the Department of Neurosurgery, University of Iowa College of Medicine.

Postdoctoral Residents

- 1992-1994 **Jane Cerhan**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 1994-1996 **Julie Suhr**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 1998-2000 **Derek Campbell**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.

- 2000-2002 **Sonia Mosch**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2001-2003 **Stefanie Griffin**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2003-2005 **John Wright**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2004-2006 **Brian Harel**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2004-2006 **Jyoti Pundlik**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2006-2008 **Bruce Parkinson**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2007-2009 **David Cordry**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2008-2010 **Catalina Hooper**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2010-2012 **Eric Waldron**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2011-2013 **Jason Southwick**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2012-2014 **Jessie Morrow**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2013-2015 **James Porter**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2014-2016 **Katie McCulloch**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.

- 2015-2017 **Janina Kamm**, PsyD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2015-2017 **Naseem Dezhkam**, PsyD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.
- 2016-2018 **Richard Laurent**, PhD, Postdoctoral Resident in Clinical Neuropsychology, Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics.

Research Associates and Junior Faculty

- 2002-2005 **Tony Buchanan**, PhD, K01 Mentored Research Scientist Development Project “Effects of brain damage on cortisol and memory.” Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa College of Medicine.
- 2004-2006 **Serge Sevy**, MD, K23 Mentored Patient-Oriented Research Career Development Project “Substance abuse and subsequent schizophrenia: A link?” Hillside Hospital of the North Shore, Long Island Jewish Health System, Glen Oaks, New York.
- 2006 **John Hixson**, MD, American Academy of Neurology Foundation Clinical Research Training Fellowship.
- 2015-2017 **Xi Chen**, DDS, PhD, K23 Mentored Patient-Oriented Research Career Development Project.

Other Supervision

- 2005 M.A. Committee member, **Katherine Audette**, “Neurobiology of muscle pain.” Neuroscience Program, University of Iowa (Kathleen Sluka, PhD, Chair).
- 2006 M.A. Committee member, **Dori DeFoe**, “Rehabilitation of speech and language.” Neuroscience Program, University of Iowa (Steve Anderson, PhD, Chair).
- 2011 M.A. Committee member, **Brendan Hodis**, Examination without thesis. Department of Biomedical Engineering, University of Iowa (Joseph Reinhardt, PhD, Chair).

XVIII. BIBLIOGRAPHY

From Web of Science (as of January, 2017):

>300 publications

h-index = 65

A. Articles

In Press

Belfi, A.M., Evans, E., Heskje, J., Bruss, J., & Tranel, D. Music anhedonia after focal brain damage. *Neuropsychologia*, (in press)

Firat Hines, R.B., Hitlin, S., Magnotta, V., & Tranel, D. Putting race in context: Social class modulates processing of race in the ventromedial prefrontal cortex and amygdala. *Social, Cognitive and Affective Neuroscience*, (in press)

King, M., & Tranel, D. Stable psychological functioning after surgery for epilepsy: An informant-based perspective. *Epilepsy & Behavior*, (in press)

Reber, J., Feinstein, J., O'Doherty, J., Liljeholm, M., Adolphs, R., & Tranel, D. Selective impairment of goal-directed decision-making following lesions to the human ventromedial prefrontal cortex. *Brain*, (in press)

2017

Reber, J., & Tranel, D. (2017). Sex differences in the functional lateralization of emotion and decision making in the human brain. *Journal of Neuroscience Research*, *95*, 270-278. Doi: 10.1002/jnr.23829

Reschke-Hernández, A.E., Okerstrom, K.L., Bowles Edwards, A., & Tranel, D. (2017). Sex and stress: Men and women show different cortisol responses to psychological stress induced by the Trier Social Stress Test and the Iowa Singing Social Stress Test. *Journal of Neuroscience Research*, *95*, 106-114. Doi: 10.1002/jnr.23851

2016

Abel, T.J., Manzel, K., Bruss, J., Belfi, A.M., Howard, M.A., & Tranel, D. (2016). The cognitive and behavioral effects of meningioma lesions involving ventromedial prefrontal cortex. *Journal of Neurosurgery*, *124*, 1568-1577. PMID: PMC5107741.

Abel, T.J., Rhone, A.E., Nourski, K.V., Ando, T.K., Oya, H., Kovach, C., Kawasaki, H., Howard, M.A., & Tranel, D. (2016). Beta modulation reflects name retrieval in the human anterior temporal lobe: An intracranial recording study. *Journal of Neurophysiology*, *115*, 3052-3061. PMID: PMC4946599.

Belfi, A.M., Bruss, J., Karlan, B., Abel, T.J., & Tranel, D. (2016). Neural correlates of recognition and naming of musical instruments. *Neuropsychology*, *30*, 860-868. PMID: Not federally funded.

Belfi, A.M., Chen, K.-H., Schneider, B., & Tranel, D. (2016). Neurological damage disrupts normal sex differences in psychophysiological responsiveness to music. *Psychophysiology*, *53*, 14-20. PMID: Not federally funded.

Belfi, A.M., Karlan, B., & Tranel, D. (2016). Music evokes vivid autobiographical memories. *Memory*, *24*, 979-989. PMID: Not federally funded.

Feinstein, J.S., Khalsa, S.S., Salomons, T.V., Prkachin, K.M., Frey-Law, L.A., Lee, J.E., Tranel, D., & Rudrauf, D. (2016). Preserved emotional awareness of pain in a patient with extensive bilateral

damage to the insula, anterior cingulate, and amygdala. *Brain Structure and Function*, 221, 1499-1511. PMID PMC4734900

Guzmán-Vélez, E., Warren, D.E., Feinstein, J.S., Bruss, J., & Tranel, D. (2016). Dissociable contributions of amygdala and hippocampus to emotion and memory in patients with Alzheimer's disease. *Hippocampus*, 26, 727-738. PMID Not federally funded.

Hinkle, C.D., Porter, J.N., Waldron, E.J., Klein, H., Tranel, D., & Heffelfinger, A. (2016). Neuropsychological characterization of three adolescents with anti-NMDA receptor encephalitis in the acute, post-acute, and chronic phases: An inter-institutional case series. *The Clinical Neuropsychologist*, 13, 1-21. DOI: [10.1080/13854046.2016.1191676](https://doi.org/10.1080/13854046.2016.1191676).

Lilienfeld, S., Sauvigne, K., Reber, J., Watts, A.L., Hamann, S., Smith, S.F., Patrick, C.J., Bowes, S. M., & Tranel, D. (2016). Potential effects of severe bilateral amygdala damage on psychopathic personality features: A case report. *Personality Disorders: Theory, Research, and Treatment*. doi: 10.1037/per0000230

Mehta, S., Inoue, K., Rudrauf, D., Damasio, H., Tranel, D., & Grabowski, T. (2016). Segregation of anterior temporal regions critical for retrieving names of unique and nonunique entities reflects underlying long-range connectivity. *Cortex*, 75, 1-19. PMID PMC4754140

Ramchandran, K., Colbert, A.E., Brown, K.G., Denburg, N.L., & Tranel, D. (2016). Exploring the neuropsychological antecedents of transformational leadership: The role of executive function. *Adaptive Human Behavior and Physiology*, 2, 325-343. PMID Not federally funded.

Sutterer, M.J., Bruss, J., Boes, A., Bechara, A., & Tranel, D. (2016). Canceled connections: Lesion-derived network mapping helps explain differences in performance on a complex decision-making task. *Cortex*, 78, 31-43. PMID PMC4854765.

Ward, A., Calamia, M., Thiemann, E., Dunlap, J., & Tranel, D. (2016). Association between olfaction and higher cortical functions in Alzheimer's disease, mild cognitive impairment, and healthy older adults. *Journal of Clinical and Experimental Neuropsychology*. doi: 10.1080/13803395.2016.1253667

Warren, D.E., Denburg, N.L., Power, J.D., Bruss, J., Waldron, E.J., Sun, H., Petersen, S.E., & Tranel, D. (2016). Brain network theory can predict whether neuropsychological outcomes will differ from clinical expectations. *Archives of Clinical Neuropsychology*. Doi: 10.1093/arclin/acw091

Warren, D.E., Tranel, D., & Duff, M.C. (2016). Impaired acquisition of new words after left temporal lobectomy despite normal fast-mapping behavior. *Neuropsychologia*, 80, 165-175. PMID PMC4698347.

2015

Abel, T.J., Rhone, A., Nourski, K., Howard, M., & Tranel, D. (2015). Investigating the anterior temporal lobe with direct intracranial recordings. *Journal of Clinical Neurosurgery*, 62, 185-189. PMID PMC4507438.

Abel, T.J., Rhone, A.E., Nourski, K.V., Kawasaki, H., Oya, H., Griffiths, T.D., Howard, M.A., & Tranel, D. (2015). Direct physiologic evidence of a heteromodal convergence region for proper naming in human anterior temporal lobe. *Journal of Neuroscience*, 35, 1513-1520. PMID PMC4308598.

- Belfi, A.M., Kosciak, T.R., & Tranel, D. (2015). Damage to the insula is associated with abnormal interpersonal trust. *Neuropsychologia*, *71*, 165-172. PMID PMC4417431.
- Guzmán-Vélez, E., & Tranel, D. (2015). Does bilingualism contribute to cognitive reserve? Cognitive and neural perspectives. *Neuropsychology*, *29*, 139-150. PMID PMC4353628.
- Hannula, D., Tranel, D., Allen, J., Kirchhoff, B., Nickel, A.E., & Cohen, N.J. (2015). Memory for items and relationships among items embedded in realistic scenes: Disproportionate relational memory impairments in amnesia. *Neuropsychology*, *29*, 126-138. PMID PMC4286539.
- Khalsa, S.S., Rudrauf, D., Davidson, R.J., & Tranel, D. (2015). The effect of meditation on regulation of internal body states. *Frontiers in Psychology*, *6*, 924. PMID PMC4493770.
- Kumaran, D., Warren, D.E., & Tranel, D. (2015). Damage to the ventromedial prefrontal cortex impairs learning from observed outcomes. *Cerebral Cortex*, *25*, 4504-4518. PMID PMC4810001.
- Kurczek, J., Wechsler, E., Ahuja, S., Jensen, U., Cohen, N.J., Tranel, D., & Duff, M. (2015). Differential contributions of hippocampus and medial prefrontal cortex to self-projection and self-referential processing. *Neuropsychologia*, *73*, 116-126. PMID PMC4671497.
- Meth, M., Calamia, M., & Tranel, D. (2015). Does a simple intervention enhance memory and adherence for neuropsychological recommendations? *Applied Neuropsychology*, *23*, 21-28. PMID Not federally funded.
- Philippi, C.L., Tranel, D., Duff, M.L., & Rudrauf, D. (2015). Damage to the Default Mode Network disrupts autobiographical memory retrieval. *Social, Cognitive, and Affective Neuroscience*, *10*, 318-326. PMID PMC4350487.
- Scherer, A.M., Taber-Thomas, B.C., & Tranel, D. (2015). A neuropsychological investigation of decisional certainty. *Neuropsychologia*, *70*, 206-213. PMID PMC4784716.
- Spalding, K.N., Jones, S.H., Duff, M.C., Tranel, D., & Warren, D.E. (2015). Investigating the neural correlates of schemas: Ventromedial prefrontal cortex is necessary for normal schematic influence on memory. *Journal of Neuroscience*, *35*, 15746-15751. PMID PMC4659831.
- Sutterer, M., Kosciak, T.R., & Tranel, D. (2015). Sex-related functional asymmetry of the ventromedial prefrontal cortex in regard to decision-making under risk and ambiguity. *Neuropsychologia*, *75*, 265-273. PMID PMC4546519.

2014

- Abel, T.J., Rhone, A.E., Nourski, K.V., Granner, M.A., Oya, H., Griffiths, T., Tranel, D., Kawasaki, H., & Howard, M.A. (2014). Mapping the temporal pole with a specialized electrode array: Technique and preliminary results. *Physiological Measurement*, *35*, 323-337. PMID PMC3992618.
- Belfi, A.M., & Tranel, D. (2014). Impaired naming of famous musical melodies is associated with left temporal polar damage. *Neuropsychology*, *28*, 429-435. PMID PMC4095894.
- Bodell, L.P., Keel, P.K., Brumm, M.C., Akubuiro, A., Caballero, J., Tranel, D., Hodis, B., & McCormick, L.M. (2014). Longitudinal examination of decision-making performance in anorexia nervosa: Before and after weight restoration. *Journal of Psychiatric Research*, *56*, 150-157. PMID PMC4127974.

- Burin, D., Acion, L., Kurczek, J., Duff, M.C., Tranel, D., & Jorge, R. (2014). The role of ventromedial prefrontal cortex in text comprehension inferences: Semantic coherence or socio-emotional perspective? *Brain and Language*, *129*, 58-64. PMID PMC4327941.
- Clark, L., Studer, B., Bruss, J., Tranel, D., & Bechara, A. (2014). Damage to insula abolishes cognitive distortions during simulated gambling. *Proceedings of the National Academy of Sciences*, *111*, 6098-6103. PMID PMC4000793.
- Derksen, B.J., Duff, M.C., Weldon, K., Zhang, J., Zamba, K.D., Tranel, D., & Denburg, N.L. (2014). Older adults catch up to younger adults on a learning and memory task that involves collaborative social interaction. *Memory*, *23*, 612-624. PMID PMC4237685.
- Gaznick, N., Bechara, A., & Tranel, D. (2014). Hemispheric side of damage influences sex-related differences in smoking cessation in neurological patients. *Journal of Clinical and Experimental Neuropsychology*, *36*, 551-558. PMID PMC4052374.
- Gaznick, N., Tranel, D., McNutt, A., & Bechara, A. (2014). Basal ganglia plus insula damage yields stronger disruption of smoking addiction than basal ganglia damage alone. *Nicotine & Tobacco Research*, *16*, 445-453. PMID PMC3954424.
- Gordon, R.G., Tranel, D., & Duff, M.L. (2014). The physiological basis of synchronizing conversational rhythms: The role of the ventromedial prefrontal cortex. *Neuropsychology*, *28*, 624-630. PMID PMC4142624.
- Guzmán-Vélez, E., Feinstein, J.S., & Tranel, D. (2014). Feelings without memory in Alzheimer's disease. *Cognitive and Behavioral Neurology*, *27*, 117-129. PMID PMC4175156.
- Levens, S.M., Larson, J.T., Bruss, J., Tranel, D., Bechara, A., & Mellers, B. (2014). What might have been? The role of the ventromedial prefrontal cortex and lateral orbitofrontal cortex in counterfactual emotions and choice. *Neuropsychologia*, *54*, 77-86. PMID PMC4319649.
- Naqvi, N.H., Gaznick, N., Tranel, D., & Bechara, A. (2014). The insula: A critical neural substrate for craving and drug seeking under conflict and risk. *Annals of the New York Academy of Sciences*, *1316*, 53-70. PMID PMC4114146.
- Robinson, H., Calamia, M., Gläscher, J., Bruss, J., & Tranel, D. (2014). Neuroanatomical correlates of executive functions: A neuropsychological approach using the EXAMINER battery. *Journal of the International Neuropsychological Society*, *20*, 52-63. PMID PMC4176938.
- Sanchez-Navarro, J.P., Driscoll, D., Anderson, S.W., Tranel, D., Bechara, A., & Buchanan, T.W. (2014). Alterations of attention and emotional processing following childhood-onset damage to the prefrontal cortex. *Behavioral Neuroscience*, *128*, 1-11. PMID PMC4324722.
- Taber-Thomas, B.C., Asp, E.W., Koenigs, M., Sutterer, M., Anderson, S.W., & Tranel, D. (2014). Arrested development: Early prefrontal lesions impair the maturation of moral development. *Brain*, *137*, 1254-1261. PMID PMC 3959552.
- Waldron, E.J., Barrash, J., Swenson, A., & Tranel, D. (2014). Personality disturbances in amyotrophic lateral sclerosis: A case study demonstrating changes in personality without cognitive deficits. *Journal of the International Neuropsychological Society*, *20*, 1-8. PMID PMC4429900.

- Waldron, E.J., Manzel, K., & Tranel, D. (2014). The left temporal pole is a heteromodal hub for retrieving proper names. *Frontiers in Bioscience*, 6, 50-57. PMID PMC4295821.
- Warren, D.E., Duff, M.C., Cohen, N.J., & Tranel, D. (2014). Hippocampus contributes to the maintenance but not the quality of visual information over time. *Learning & Memory*, 22, 6-10. PMID PMC4274332.
- Warren, D.E., Jones, S.H., Duff, M.C., & Tranel, D. (2014). False recall is reduced by damage to the ventromedial prefrontal cortex: Implications for understanding the neural correlates of schematic memory. *Journal of Neuroscience*, 34, 7677-7682. PMID PMC4035527.
- Warren, D.E., Power, J.D., Bruss, J., Denburg, N.L., Waldron, E.J., Sun, H., Petersen, S.E., & Tranel, D. (2014). Network measures predict neuropsychological outcome after brain injury. *Proceedings of the National Academy of Science*, 111, 14247-14252. PMID PMC4191760.
- Yee, L.T.S., Hannula, D.E., Tranel, D., & Cohen, N.J. (2014). Short-term retention of relational memory in amnesia revisited: Accurate performance depends on hippocampal integrity. *Frontiers in Human Neuroscience*, 8, 1-12. PMID PMC3901041.
- Yee, L.T.S., Voss, J.L., Warren, D.E., Duff, M.C., Tranel, D., & Cohen, N.J. (2014). The hippocampus uses information just encountered to guide efficient ongoing behavior. *Hippocampus*, 24, 154-164. PMID PMC3920827.

2013

- Asp, E.W., Manzel, K., Koestner, B.K., Cole, C.A., Denburg, N., & Tranel, D. (2013). Benefit of the doubt: A new view of the role of the prefrontal cortex in executive functioning and decision making. *Frontiers in Neuroscience*, 7:86. PMID PMC3662896.
- Bauer, A., Timple, J., Edmonds, E.C., Bechara, A., Tranel, D., & Denburg, N.L. (2013). Myopia for the future or hypersensitivity to reward? Age-related changes in decision-making on the Iowa Gambling Task. *Emotion*, 13, 19-24. PMID PMC3965348.
- Beadle, J.N., Tranel, D., Cohen, N.J., & Duff, M.L. (2013). Empathy in hippocampal amnesia. *Frontiers in Psychology*, 4, 1-12. PMID PMC3605505.
- Calamia, M., Markon, K., & Tranel, D. (2013). The robust reliability of neuropsychological measures: Meta-analyses of test-retest correlations. *The Clinical Neuropsychologist*, 27, 1077-1105. PMID Not federally funded. (selected as a Continuing Education article)
- Damasio, A., Damasio, H., & Tranel, D. (2013). Persistence of feelings and sentience after bilateral damage of the insula. *Cerebral Cortex*, 23, 833-846. PMID PMC3657385.
- Drane, D.L., Ojemann, J.G., Phatak, V., Loring, D.W., Gross, R.E., Hebb, A.O., Sibegeld, D.L., Miller, J.W., Voets, N., Saindaine, A., Barsalou, L., Meador, K.J., Ojemann, G.A., & Tranel, D. (2013). Famous face identification in temporal lobe epilepsy: Support for a multimodal integration model of semantic memory. *Cortex*, 49, 1748-1667. PMID PMC3679345.
- Duff, M.C., Gallegos, D.R., Cohen, N.J., & Tranel, D. (2013). Learning in Alzheimer's disease is facilitated by social interaction. *Journal of Comparative Neurology*, 521, 4356-4369. PMID PMC4038091.

- Duff, M.C., Kurczek, J., Rubin, R., Cohen, N.J., & Tranel, D. (2013). Hippocampal amnesia disrupts creative thinking. *Hippocampus*, *12*, 1143-1149. PMID PMC4010315.
- Feinstein, J.S., Buzza, C., Hurlmann, R., Dahdaleh, N.S., Follmer, R.L., Coryell, W.H., Welsh, M.J., Tranel, D., & Wemmie, J.A. (2013). Fear and panic in humans with bilateral amygdala damage. *Nature Neuroscience*, *16*, 270-272. PMID PMC3739474.
- Keifer, E., & Tranel, D. (2013). A neuropsychological investigation of the Delis-Kaplan Executive Function System. *Journal of Clinical and Experimental Neuropsychology*, *35*, 1048-1059. PMID PMC4304768.
- Kemmerer, D., Miller, L., MacPherson, M.K., Huber, J., & Tranel, D. (2013). An investigation of semantic similarity judgments about action and non-action verbs in Parkinson's disease: Implications for the Embodied Cognition Framework. *Frontiers in Human Neuroscience*, *7*, 1-19. PMID PMC3629304.
- Koscik, T.R., & Tranel, D. (2013). Abnormal causal attribution leads to advantageous economic decision-making: A neuropsychological approach. *Journal of Cognitive Neuroscience*, *25*, 1372-1382. PMID PMC3696434.
- Nguyen, C. M., Barrash, J., Koenigs, A. L., Bechara, A., Tranel, D., & Denburg, N. L. (2013). Decision-making deficits in normal elderly persons associated with executive personality disturbances. *International Psychogeriatrics*, *25*, 1811-1819. PMID PMC4280845.
- Vijayaraghavan, L., Adolphs, R., Kennedy, D., Cassell, M., Tranel, D., & Paradiso, S. (2013). A selective role for right insula-basal ganglia circuits in appetitive stimulus processing. *Social, Cognitive, and Affective Neuroscience*, *8*, 813-819. PMID PMC3791073.
- Watson, P.D., Voss, J.L., Warren, D.E., Tranel, D., & Cohen, N.J. (2013). Spatial reconstruction by patients with hippocampal damage is dominated by relational memory errors. *Hippocampus*, *23*, 570-580. PMID PMC3697762.
- 2012**
- Asp, E., Manzel, K., Koestner, B.K., Cole, C.A., Denburg, N.L., & Tranel, D. (2012). A neuropsychological test of belief and doubt: Damage to ventromedial prefrontal cortex increases credulity for misleading advertising. *Frontiers in Neuroscience*, *6*, 1-9. PMID PMC3391647.
- Asp, E., Ramchandran, K., & Tranel, D. (2012). Authoritarianism, religious fundamentalism, and the human prefrontal cortex. *Neuropsychology*, *26*, 414-421. PMID PMC3389201.
- Beadle, J.N., Brown, V., Keady, B., Tranel, D., & Paradiso, S. (2012). Trait empathy as a predictor of individual differences in perceived loneliness. *Psychological Reports*, *110*, 3-15. PMID PMC3555404.
- Beadle, J.N., Paradiso, S., Kovach, C., Polgreen, L., Denburg, N.L., & Tranel, D. (2012). Effects of age-related differences in empathy on social economic decision-making. *International Psychogeriatrics*, *24*, 822-833. PMID PMC3547629.
- Calamia, M., Markon, K., & Tranel, D. (2012). Scoring higher the second time around: Meta-analyses of practice effects in neuropsychological assessment. *The Clinical Neuropsychologist*, *26*, 543-570. PMID Not federally funded. (selected as a Continuing Education article)

- Casas, R., Guzmán-Vélez, E., Cardona-Rodríguez, J., Rodríguez, N., Quiñones, G., Izaguirre, B., & Tranel, D. (2012). Interpreter-mediated neuropsychological testing of monolingual Spanish speakers. *The Clinical Neuropsychologist*, 26, 88-101. PMID PMC3392019.
- Cavaco, S., Feinstein, J.S., van Twillert, H., & Tranel, D. (2012). Musical memory in a patient with severe anterograde amnesia. *Journal of Clinical and Experimental Neuropsychology*, 34, 1089-1100. PMID PMC3919540.
- Coronel, J.C., Duff, M.C., Warren, D.E., Gonsalves, B.D., Tranel, D., & Cohen, N.J. (2012). Remembering and voting: Theory and evidence from amnesic patients. *American Journal of Political Science*, 56, 837-848. PMID PMC3917545.
- Duff, M.C., Warren, D., Gupta, R., Benabe Vidal, J.P., Tranel, D., & Cohen, N.J. (2012). Teasing apart tangrams: Testing hippocampal pattern separation with a collaborative referencing paradigm. *Hippocampus*, 22, 1087-1091. PMID PMC3472641.
- Gläscher, J., Adolphs, R., Damasio, H., Bechara, A., Rudrauf, D., Calamia, M., Paul, L.K., & Tranel, D. (2012). Lesion mapping of cognitive control and value-based decision-making in the prefrontal cortex. *Proceedings of the National Academy of Sciences*, 109, 14681-14686. PMID PMC3437894.
- Gupta, R., Tranel, D., & Duff, M.C. (2012). Ventromedial prefrontal cortex damage does not impair the development and use of common ground in social interaction: Implications for cognitive theory of mind. *Neuropsychologia*, 50, 145-152. PMID PMC3261371.
- Kemmerer, D., Rudrauf, D., Manzel, K., & Tranel, D. (2012). Behavioral patterns and lesion sites associated with impaired processing of lexical and conceptual knowledge of actions. *Cortex*, 48, 826-848. PMID PMC3965329.
- Koscik, T., & Tranel, D. (2012). Brain evolution and human neuropsychology: The Inferential Brain Hypothesis. *Journal of the International Neuropsychological Society*, 18, 394-401. PMID PMC3619048.
- Koscik, T., & Tranel, D. (2012). The human ventromedial prefrontal cortex is critical for transitive inference. *Journal of Cognitive Neuroscience*, 24, 1191-1204. PMID PMC3626083.
- Kovach, C.K., Daw, N., Rudrauf, D., Tranel, D., O'Doherty, J.P., & Adolphs, R. (2012). Anterior prefrontal cortex contributes to action selection through tracking of recent reward trends. *Journal of Neuroscience*, 32, 8434-8432. PMID PMC3425366.
- Philippi, C., Duff, M., Denburg, N.L., Tranel, D., & Rudrauf, D. (2012). Medial PFC damage abolishes the self-reference effect. *Journal of Cognitive Neuroscience*, 24, 475-481. PMID PMC3297026.
- Philippi, C., Feinstein, J.S., Khalsa, S.S., Damasio, A., Tranel, D., Landini, G., Williford, K., & Rudrauf, D. (2012). Preserved self-awareness following extensive bilateral brain damage to the insula, anterior cingulate, and medial prefrontal cortex. *PLoS ONE*, 7, e38413. PMID PMC3425501.
- Tranel, D., McNutt, A., & Bechara, A. (2012). Smoking cessation after brain damage does not lead to increased depression: Implications for understanding the psychiatric complications of varenicline. *Cognitive and Behavioral Neurology*, 25, 16-24. PMID PMC3299864.

Tranel, D., & Welsh-Bohmer, K.A. (2012). Pervasive olfactory impairment after bilateral limbic system destruction. *Journal of Clinical and Experimental Neuropsychology*, 34, 117-125. PMID PMC3269190.

Warren, D.E., Duff, M.C., Jensen, U., Tranel, D., & Cohen, N.J. (2012). Hiding in plain view: Lesions of the medial temporal lobe impair on-line representation. *Hippocampus*, 7, 1577-1588. PMID PMC3319639.

Warren, D.E., Duff, M.C., Magnotta, V., Capizzano, A.A., Cassell, M.D., Tranel, D. (2012). Long-term neuropsychological, neuroanatomical, and life outcome in hippocampal amnesia. *The Clinical Neuropsychologist*, 26, 335-369. PMID PMC3390923.

2011

Barrash, J., Asp, E., Markon, K., Manzel, K., Anderson, S.W., & Tranel, D. (2011). Dimensions of personality disturbance after focal brain damage: Investigation with the Iowa Scales of Personality Change. *Journal of Clinical and Experimental Neuropsychology*, 33, 833-852. PMID PMC3140575.

Berntson, G.G., Norman, G.J., Bechara, A., Bruss, J., Tranel, D., & Cacioppo, J.T. (2011). The insula and evaluative processes. *Psychological Science*, 22, 80-86. PMID PMC3261800.

Calamia, M., Markon, K., Denburg, N.L., & Tranel, D. (2011). Developing a short form of Benton's Judgment of Line Orientation Test: An item response theory approach. *The Clinical Neuropsychologist*, 25, 670-684. PMID PMC3094715.

Duff, M.C., Gupta, R., Hengst, J.A., Tranel, D., & Cohen, N.J. (2011). The use of definite references signals declarative memory: Evidence from patients with hippocampal amnesia. *Psychological Science*, 22, 666-673. PMID PMC3216116.

Duff, M.C., Hengst, J.A., Gupta, R., Tranel, D., & Cohen, N.J. (2011). Distributed impact of cognitive-communication impairment: Disruptions in the use of definite references when speaking to individuals with amnesia. *Aphasiology*, 25, 675-687. PMID PMC3216114.

Feinstein, J.S., Adolphs, R., Damasio, A.R., & Tranel, D. (2011). The human amygdala and the induction and experience of fear. *Current Biology*, 21, 34-38. PMID PMC3030206.

Gosselin, F., Spezio, M.L., Tranel, D., & Adolphs, R. (2011). Asymmetrical use of eye information from faces following unilateral amygdala damage. *Social, Cognitive, and Affective Neuroscience*, 6, 330-337. PMID PMC 3110430.

Gupta, R., Duff, M.C., & Tranel, D. (2011). Bilateral amygdala damage impairs the acquisition and use of common ground in social interaction. *Neuropsychology*, 25, 137-146. PMID PMC3058833.

Gupta, R., Kosciak, T., Bechara, A., & Tranel, D. (2011). The amygdala and decision-making. *Neuropsychologia*, 49, 760-766. PMID PMC3032808.

Kosciak, T., & Tranel, D. (2011). The human amygdala is necessary for developing and expressing normal interpersonal trust. *Neuropsychologia*, 49, 602-611. PMID PMC3056169.

Nguyen, C.M., Koenigs, M., Yamada, T.H., Teo, S.H., Cavanaugh, J.E., Tranel, D., & Denburg, N.L. (2011). Trustworthiness and negative affect predict economic decision-making. *Journal of Cognitive Psychology*, 23, 748 – 759. PMID PMC3594801.

- Paradiso, S., Anderson, B.M., Boles Ponto, L.L., Tranel, D., & Robinson, R.G. (2011). Altered neural activity and emotions following right middle cerebral artery stroke. *Journal of Stroke and Cerebrovascular Diseases*, *20*, 94-104. PMID PMC3014997.
- Paradiso, S., Caspers, K., Tranel, D., & Coryell, W. (2011). Cognition and nondysphoric depression among adoptees at high risk for psychopathology. *Comprehensive Psychiatry*, *52*, 498-506. PMID PMC3348660.
- Ramchandran, K., Nayakankuppam, D., Berg, J., Tranel, D., & Denburg, N.L. (2011). Market mechanisms protect the vulnerable brain. *Neuropsychologia*, *49*, 2533-2540. PMID PMC3139399.
- Rubin, R.D., Brown-Schmidt, S., Duff, M.C., Tranel, D., & Cohen, N.J. (2011). How do I remember that I know you know that I know? *Psychological Science*, *22*, 1574 – 1582. PMID PMC3917552.
- Thomas, B., Croft, K., & Tranel, D. (2011). Harming kin to save strangers: Further evidence for abnormally utilitarian moral judgments after ventromedial prefrontal damage. *Journal of Cognitive Neuroscience*, *23*, 2186-2196. PMID PMC3234136.
- Voss, J.L., Warren, D.E., Gonsalves, B.D., Federmeier, K., Tranel, D., & Cohen, N.J. (2011). Spontaneous revisitation during visual exploration as a link between strategic behavior, learning, and the hippocampus. *Proceedings of the National Academy of Sciences*, *108*, E402-E409. PMID PMC3150890.
- Voss, J.L., Gonsalves, B.D., Federmeier, K., Tranel, D., & Cohen, N.J. (2011). Hippocampal brain-network coordination during volitional exploratory behavior enhances learning. *Nature Neuroscience*, *14*, 115-120. PMID PMC3057495.
- Warren, D.E., Duff, M.C., Tranel, D., & Cohen, N.J. (2011). Observing degradation of visual representations over short intervals when medial temporal lobe is damaged. *Journal of Cognitive Neuroscience*, *23*, 3862-3873. PMID PMC3521516.

2010

- Buchanan, T.W., Driscoll, D., Mower, S., Sollers, J.J., Thayer, J., Kirschbaum, C., & Tranel, D. (2010). Medial prefrontal cortex damage affects physiological and psychological stress responses differently in men and women. *Psychoneuroendocrinology*, *35*, 56-66. PMID PMC2795091.
- Croft, K.E., Duff, M.C., Kovach, C.K., Anderson, S.W., Adolphs, R., & Tranel, D. (2010). Detestable or Marvelous? – Neuroanatomical correlates of character judgments. *Neuropsychologia*, *48*, 1789-1801. PMID PMC2862792.
- Feinstein, J.S., Duff, M.C., & Tranel, D. (2010). Sustained experience of emotion after loss of memory in patients with amnesia. *Proceedings of the National Academy of Sciences*, *107*, 7674-7679. PMID PMC2867870.
- Feinstein, J.S., Rudrauf, D., Khalsa, S.S., Cassell, M.D., Bruss, J., Grabowski, T.J., & Tranel, D. (2010). Bilateral limbic system destruction in man. *Journal of Clinical and Experimental Neuropsychology*, *32*, 88-106. PMID PMC2888849.

- Gläscher, J., Rudrauf, D., Paul, L.K., Colom, R., Tranel, D., Damasio, H., & Adolphs, R. (2010). Distributed neural system for general intelligence revealed by lesion mapping. *Proceedings of the National Academy of Sciences, USA*, *107*, 4705-4709. PMID PMC2842050.
- Koscik, T., Bechara, A., & Tranel, D. (2010). Sex-related functional asymmetry in the limbic brain. *Neuropsychopharmacology*, *35*, 340-341. PMID PMC2812861.
- Paul, L.K., Corsello, C., Tranel, D., & Adolphs, R. (2010). Does bilateral damage to the human amygdala produce autistic symptoms? *Journal of Neurodevelopmental Disorders*, *2*, 165-173. PMID PMC2914867.
- van der Plas, E.A.A., Boes, A.D., Wemmie, J.A., Tranel, D., & Nopoulos, P. (2010). Amygdala volume correlates positively with fearfulness in normal healthy girls: Amygdala volume as an endophenotype for internalizing disorders. *Social, Cognitive, and Affective Neuroscience*, *5*, 424-431. PMID PMC29999759.
- Warren, D., Duff, M.C., Tranel, D., & Cohen, N. (2010). Medial temporal lobe damage impairs representation of simple stimuli. *Frontiers in Human Neuroscience*, *4*, 35 (1-9). PMID PMC2876870.
- Young, L., Bechara, A., Tranel, D., Damasio, H., Hauser, M., & Damasio, A. (2010). Damage to ventromedial prefrontal cortex impairs judgment of harmful intent. *Neuron*, *65*, 845-851. PMID PMC3085837.

2009

- Anderson, S.W., Wisniewski, J., Barrash, J., Damasio, H., & Tranel, D. (2009). Consistency of neuropsychological outcome following damage to prefrontal cortex in the first years of life. *Journal of Clinical and Experimental Neuropsychology*, *31*, 170-179. PMID PMC2835154.
- Boes, A., Bechara, A., Tranel, D., Anderson, S.W., Richman, L., & Nopoulos, P. (2009). Right ventromedial prefrontal cortex: A neuroanatomical correlate of impulse control in boys. *Social, Cognitive, and Affective Neuroscience*, *4*, 1-9. PMID PMC2656876.
- Buchanan, T., Tranel, D., Kirschbaum, C. (2009). Hippocampal damage abolishes the cortisol response to psychosocial stress in humans. *Hormones & Behavior*, *56*, 44-50. PMID PMC2692817.
- Buchanan, T.W., & Tranel, D. (2009). Central and peripheral nervous system interactions: From mind to body to brain. *International Journal of Psychophysiology*, *72*, 1-4. PMID PMC2692922.
- Denburg, N.L., Jones, R.D., & Tranel, D. (2009). Recognition without awareness in a patient with simultanagnosia. *International Journal of Psychophysiology*, *72*, 5-12. PMID PMC2688652.
- Denburg, N.L., Weller, J.A., Yamada, T.H., Kaup, A.R., LaLoggia, A., Cole, C.A., Tranel, D., & Bechara, A. (2009). Poor decision-making among older adults is related to elevated levels of neuroticism. *Annals of Behavioral Medicine*, *37*, 164-172.
- Drane, D.L., Ojemann, G.A., Ojemann, J.G., Aylward, E., Silbergeld, D.L., Miller, J.W., & Tranel, D. (2009). Category-specific recognition and naming deficits following resection of a right anterior temporal lobe tumor in a patient with atypical language lateralization. *Cortex*, *45*, 630-640. PMID PMC2727923.

- Driscoll, D., Tranel, D., & Anderson, S.W. (2009). The effects of voluntary regulation of positive and negative emotion on psychophysiological responsiveness. *International Journal of Psychophysiology*, *72*, 61-66. PMID PMC2676237.
- Duff, K., O'Bryant, S.E., Westervelt, H., Sweet, J.R., Reynolds, C.R., van Gorp, W.G., Tranel, D., & McCaffrey, R.J. (2009). On becoming a peer reviewer for a neuropsychology journal. *Archives of Clinical Neuropsychology*, *24*, 201-208. PMID Not federally funded.
- Duff, M.C., Hengst, J.A., Tranel, D., & Cohen, N.J. (2009). Hippocampal amnesia disrupts verbal play and the creative use of language in social interaction. *Aphasiology*, *23*, 926-939. PMID PMC2840642.
- Gläscher, J., Tranel, D., Paul, L.K., Rudrauf, D., Rorden, C., Hornaday, A., Grabowski, T., Damasio, H., & Adolphs, R. (2009). Lesion mapping of cognitive abilities linked to intelligence. *Neuron*, *61*, 681-691. PMID PMC2728583.
- Gupta, R., Duff, M.C., Denburg, N.L., Cohen, N.J., Bechara, A., & Tranel, D. (2009). Declarative memory is critical for sustained advantageous complex decision-making behavior. *Neuropsychologia*, *47*, 1686-1693. PMID PMC2697903.
- Johnsen, E.L., Tranel, D., Lutgendorf, S.K., & Adolphs, R. (2009). A neuroanatomical dissociation for emotion induced by music. *International Journal of Psychophysiology*, *72*, 24-33. PMID PMC2656600.
- Kemmerer, D., Tranel, D., & Zdanczyk, C. (2009). Knowledge of the semantic constraints on adjective order can be selectively impaired. *Journal of Neurolinguistics*, *22*, 91-108. PMID PMC2859704.
- Khalsa, S.S., Rudrauf, D., & Tranel, D. (2009). Interoceptive awareness declines with age. *Psychophysiology*, *46*, 1130-1136. PMID PMC2865139.
- Khalsa, S.S., Rudrauf, D., Feinstein, J.S., & Tranel, D. (2009). The pathways of interoceptive awareness. *Nature Neuroscience*, *12*, 1494-1496. PMID PMC2787640.
- Khalsa, S.S., Rudrauf, D., Sandesara, C., Olshansky, B., & Tranel, D. (2009). Bolus isoproterenol infusions provide a reliable method for assessing interoceptive awareness. *International Journal of Psychophysiology*, *72*, 34-45. PMID PMC3085829.
- Krajbich, I., Adolphs, R., Tranel, D., Denburg, N.L., & Camerer, C.F. (2009). Economic games quantify diminished sense of guilt in patients with damage to the prefrontal cortex. *Journal of Neuroscience*, *29*, 2188-2192. PMID PMC2646169.
- Tranel, D. (2009). The left temporal pole is important for the retrieval of words for unique concrete entities. *Aphasiology*, *23*, 867-884. PMID PMC2813036.
- Tranel, D., & Bechara, A. (2009). Sex-related functional asymmetry of the amygdala: Preliminary evidence using a case-matched lesion approach. *Neurocase*, *15*, 217-234. PMID PMC2829120.
- Tranel, D., Vianna, E.P.M., Manzel, K., Damasio, H., & Grabowski, T. (2009). Neuroanatomical correlates of the Benton Facial Recognition Test and Judgment of Line Orientation Test. *Journal of Clinical and Experimental Neuropsychology*, *31*, 219-233. PMID PMC2853018.

van der Plas, E.A.A., Crone, E.A., van den Wildenberg, W.P.M., Recknor, E.C., Tranel, D., & Bechara, A. (2009). Executive control deficits in substance-dependent individuals: A comparison of alcohol, cocaine, and methamphetamine, and of men and women. *Journal of Clinical and Experimental Neuropsychology*, *31*, 706-719. PMID PMC2829119.

Vianna, E.P.M., Naqvi, N., Bechara, A., & Tranel, D. (2009). Does vivid emotional imagery depend on body signals? *International Journal of Psychophysiology*, *72*, 46-50. PMID PMC2676142.

2008

Boes, A., Tranel, D., Anderson, S.W., & Nopoulos, P. (2008). Right anterior cingulate cortex volume is a neuroanatomical correlate of aggression and defiance in boys. *Behavioral Neuroscience*, *122*, 677-684. PMID PMC2410031.

Buchanan, T., & Tranel, D. (2008). Stress and emotional memory retrieval: Effects of sex and cortisol response. *Neurobiology of Learning and Memory*, *89*, 134-141. PMID PMC2246095.

Casas, R., Calamia, M., & Tranel, D. (2008). A screening test of English naming ability in bilingual Spanish/English speakers. *Journal of Clinical and Experimental Neuropsychology*, *30*, 956-966.

Drane, D.L., Ojemann, G.A., Aylward, E., Ojemann, J.G., Johnson, C., Silbergeld, D.L., Miller, J.W., & Tranel, D. (2008). Category-specific naming and recognition deficits in temporal lobe epilepsy surgical patients. *Neuropsychologia*, *46*, 1242-1255. PMID PMC2474808.

Duff, M.C., Hengst, J., Tengshe, C., Krema, A. Tranel, D., & Cohen, N.J. (2008). Hippocampal amnesia disrupts the flexible use of procedural discourse in social interaction. *Aphasiology*, *22*, 866-880. PMID PMC2645710.

Duff, M.C., Hengst, J.A., Tranel, D., & Cohen, N. (2008). Collaborative discourse facilitates efficient communication and new semantic learning in amnesia. *Brain and Language*, *106*, 41-54. PMID PMC2464361.

Duff, M.C., Wszalek, T., Tranel, D., & Cohen, N. (2008). Successful life outcome and management of real-world memory demands despite profound anterograde amnesia. *Journal of Clinical and Experimental Neuropsychology*, *30*, 931-945. PMID PMC2837840.

Kemmerer, D., & Tranel, D. (2008). Searching for the elusive neural substrates of body part terms: A neuropsychological study. *Cognitive Neuropsychology*, *25*, 601-629. PMID PMC2819164.

Khalsa, S.S., Rudrauf, D., Damasio, A.R., Davidson, R.J., Lutz, A., & Tranel, D. (2008). Interoceptive awareness in experienced meditators. *Psychophysiology*, *45*, 671-677. PMID PMC2637372.

Koenigs, M., & Tranel, D. (2008). Prefrontal cortex damage abolishes brand-cued changes in cola preference. *Social, Cognitive and Affective Neuroscience*, *3*, 1-6. PMID PMC2288573.

Koenigs, M., Huey, E.D., Calamia, M., Raymond, V., Tranel, D., & Grafman, J. (2008). Distinct regions of prefrontal cortex mediate resistance and vulnerability to depression. *Journal of Neuroscience*, *28*, 12341-12348. PMID 2644261.

Koenigs, M., Young, L., Greene, J., Adolphs, R., Hauser, M., Tranel, D., Cushman, F., & Damasio, A. (2008). Damage to the prefrontal cortex increases “utilitarian” moral judgments—no matter how they are defined. *Nature*, *452*, E5-E6. PMID PMC2244801.

- Konkel, A., Warren, D.E., Duff, M.C., Tranel, D., & Cohen, N.J. (2008). Hippocampal amnesia impairs all manner of relational memory. *Frontiers in Human Neuroscience*, 2, 15. PMID PMC2579988.
- Paradiso, S., Vaidya, J., Tranel, D., Kosier, T., & Robinson, R.G. (2008). Nondysphoric depression following stroke. *Journal of Neuropsychiatry and Clinical Neuroscience*, 20, 52-61.
- Rudrauf, D., Mehta, S., Bruss, J., Tranel, D., Damasio, H., & Grabowski, T.J. (2008). Thresholding lesion overlap difference maps: Application to category-related naming and recognition deficits. *NeuroImage*, 41, 970-984. PMID PMC2582202.
- Tranel, D., Anderson, S.W., & Manzel, K. (2008). Is the prefrontal cortex important for “fluid” intelligence? A neuropsychological study using Matrix Reasoning. *The Clinical Neuropsychologist*, 22, 242-261. PMID PMC2562905.
- Tranel, D., Feinstein, J., & Manzel, K. (2008). Further lesion evidence for the neural basis of conceptual knowledge for persons and other concrete entities. *Journal of Neuropsychology*, 2, 301-320.
- Tranel, D., Manzel, K., Asp, E., & Kemmerer, D. (2008). Naming dynamic and static actions: Neuropsychological evidence. *Journal of Physiology – Paris*, 102, 80-94. PMID PMC2519898.
- Tranel, D., Rudrauf, D., Vianna, E.P.M., & Damasio, H. (2008). Does the Clock Drawing Test have focal neuroanatomical correlates? *Neuropsychology*, 22, 553-562. PMID PMC2834527.

2007

- Berntson, G.G., Bechara, A., Damasio, H., Tranel, D., & Cacioppo, J.T. (2007). Amygdala contribution to selective dimensions of emotion. *Social Cognitive and Affective Neuroscience*, 2, 123-129. PMID PMC2293306.
- Denburg, N.L., Cole, C.A., Hernandez, M., Yamada, T.H., Tranel, D., Bechara, A., & Wallace, R.B. (2007). The orbitofrontal cortex, real-world decision-making, and normal aging. *Annals of the New York Academy of Sciences*, 1121, 480-498. PMID PMC2246008.
- Duff, M.C., Hengst, J.A., Tranel, D., & Cohen, N.J. (2007). Talking across time: Using reported speech as a communicative resource in amnesia. *Aphasiology*, 21, 702-716. PMID PMC2519878.
- Griffin, S.L., & Tranel, D. (2007). Age of seizure onset, functional reorganization, and neuropsychological outcome in temporal lobectomy. *Journal of Clinical and Experimental Neuropsychology*, 29, 13-24. PMID PMC2246093.
- Hannula, D.E., Ryan, J.D., Tranel, D., & Cohen, N.J. (2007). Rapid onset relational memory effects are evident in eye movement behavior, but not in hippocampal amnesia. *Journal of Cognitive Neuroscience*, 19, 1690-1705.
- Hoth, K.F., Paulsen, J.S., Moser, D.J., Tranel, D., Clark, L.A., & Bechara, A. (2007). Patients with Huntington’s disease have impaired awareness of cognitive, emotional, and functional abilities. *Journal of Clinical and Experimental Neuropsychology*, 29, 365-376.
- Kemmerer, D., Chandrasekaran, B., & Tranel, D. (2007). A case of impaired verbalization but preserved gesticulation of motion events. *Cognitive Neuropsychology*, 24, 70-114.

- Koenigs, M., & Tranel, D. (2007). Irrational economic decision-making after ventromedial prefrontal damage: Evidence from the Ultimatum Game. *Journal of Neuroscience*, *27*, 951-956. PMID PMC2490711.
- Koenigs, M., Young, L., Adolphs, R., Tranel, D., Cushman, F., Hauser, M., & Damasio, A. (2007). Damage to the prefrontal cortex increases utilitarian moral judgments. *Nature*, *446*, 908-911. PMID PMC2244801.
- Tranel, D., & de Haan, E. (2007). Selective developmental neuropsychological disorders. *Cortex*, *43*, 667-671. PMID PMC2244799.
- Tranel, D., Hathaway-Nepple, J., & Anderson, S.W. (2007). Impaired behavior on real-world tasks following damage to the ventromedial prefrontal cortex. *Journal of Clinical and Experimental Neuropsychology*, *29*, 319-332. PMID PMC2289390.
- Yucus, C.J., & Tranel, D. (2007). Preserved proper naming following left anterior temporal lobectomy is associated with early age of seizure onset. *Epilepsia*, *48*, 2241-2252. PMID PMC2244800.

2006

- Allen, J.S., Tranel, D., Bruss, J., & Damasio, H. (2006). Correlations between regional brain volumes and memory performance in anoxia. *Journal of Clinical and Experimental Neuropsychology*, *28*, 457-476.
- Anderson, S.W., Barrash, J., Bechara, A., & Tranel, D. (2006). Impairments of emotion and real-world complex behavior following childhood- or adult-onset damage to ventromedial prefrontal cortex. *Journal of the International Neuropsychological Society*, *12*, 224-235.
- Anderson, S.W., Todd, M.M., Hindman, B.J., Clarke, W.R., Torner, J.C., Tranel, D., Yoo, B., Weeks, J., Manzel, K.W., & Samra, S. (2006). Intraoperative hypothermia and neuropsychological outcome after aneurysm surgery. *Annals of Neurology*, *60*, 518-527.
- Buchanan, T.W., Etzel, J.A., Adolphs, R., & Tranel, D. (2006). The influence of autonomic arousal and semantic relatedness on memory for emotional words. *International Journal of Psychophysiology*, *61*, 26-33.
- Buchanan, T.W., Tranel, D., & Adolphs, R. (2006). Impaired memory retrieval correlates with individual differences in cortisol response but not autonomic response. *Learning and Memory*, *13*, 382-387. PMID PMC1475821.
- Buchanan, T.W., Tranel, D., & Adolphs, R. (2006). Memories for emotional autobiographical events following unilateral damage to medial temporal lobe. *Brain*, *129*, 115-127.
- Denburg, N.L., Recknor, E.C., Bechara, A., & Tranel, D. (2006). Psychophysiological anticipation of positive outcomes promotes advantageous decision-making in normal older persons. *International Journal of Psychophysiology*, *61*, 19-25.
- Duff, M.C., Hengst, J., Tranel, D., & Cohen, N.J. (2006). Development of shared information in communication despite hippocampal amnesia. *Nature Neuroscience*, *9*, 140-146.
- Etzel, J.A., Johnsen, E.L., Dickerson, J., Tranel, D., & Adolphs, R. (2006). Cardiovascular and respiratory responses during musical mood induction. *International Journal of Psychophysiology*, *61*, 57-69.

- Fiez, J.A., Tranel, D., Seager-Frerichs, D., & Damasio, H. (2006). Specific reading and phonological processing deficits are associated with damage to the left frontal operculum. *Cortex*, 42, 624-643.
- Hannula, D.E., Tranel, D., & Cohen, N. (2006). The long and the short of it: Relational memory impairments in amnesia, even at short lags. *Journal of Neuroscience*, 26, 8352-8359.
- Kemmerer, D., & Tranel, D. (2006). Evidence that the meanings of English locative prepositions are processed in the left inferior prefrontal and parietal cortices. *Proceedings of the 39th Annual Meeting of the Chicago Linguistic Society*.
- Tranel, D. (2006). Impaired naming of unique landmarks is associated with left temporal polar damage. *Neuropsychology*, 20, 1-10.
- Tranel, D. (2006). Preface: Psychophysiology and cognitive neuroscience. *International Journal of Psychophysiology*, 61, 1-4.
- Tranel, D., & Jones, R.D. (2006). Knowing what and knowing when. *Journal of Clinical and Experimental Neuropsychology*, 28, 43-66.
- Tranel, D., Gullickson, G., Koch, M., & Adolphs, R. (2006). Altered experience of emotion following bilateral amygdala damage. *Cognitive Neuropsychiatry*, 11, 219-232.
- Vianna, E.P.M., & Tranel, D. (2006). Gastric myoelectrical activity as an index of emotional arousal. *International Journal of Psychophysiology*, 61, 70-76.
- Vianna, E.P.M., Weinstock, J., Elliott, D., Summers, R., & Tranel, D. (2006). Increased feelings with increased body signals. *Social, Cognitive, and Affective Neuroscience*, 1, 37-48. PMID PMC2555412.
- Young, L., Cushman, F., Adolphs, R., Tranel, D., & Hauser, M. (2006). Does emotion mediate the effect of an action's moral status and its intentional status? Neuropsychological evidence. *Journal of Cognition and Culture*, 6, 291-304.

2005

- Adolphs, R., Gosselin, F., Buchanan, T.W., Tranel, D., Schyns, P., & Damasio, A.R. (2005). A mechanism for impaired fear recognition after amygdala damage. *Nature*, 433, 68-72.
- Adolphs, R., Tranel, D., & Buchanan, T.W. (2005). Amygdala damage impairs emotional memory for the gist but not details of complex stimuli. *Nature Neuroscience*, 8, 512-518.
- Adolphs, R., Tranel, D., Koenigs, M., & Damasio, A.R. (2005). Preferring one taste over another without recognizing either. *Nature Neuroscience*, 8, 860-861.
- Bechara, A., Damasio, H., Tranel, D., & Damasio, A.R. (2005). The Iowa Gambling Task and the Somatic Marker Hypothesis: Some questions and answers. *Trends in Cognitive Sciences*, 9, 159-162.
- Buchanan, T.W., Tranel, D., & Adolphs, R. (2005). Emotional autobiographical memories in amnesic patients with medial temporal lobe damage. *Journal of Neuroscience*, 25, 3151-3160.

- Denburg, N.L., Tranel, D., & Bechara, A. (2005). The ability to decide advantageously declines prematurely in some older adults. *Neuropsychologia*, *43*, 1099-1106.
- Eslinger, P.J., & Tranel, D. (2005). Integrative study of cognitive, social, and emotional processes in clinical neuroscience. *Cognitive and Behavioral Neurology*, *18*, 1-4.
- Gallegos, D., & Tranel, D. (2005). Positive facial affect facilitates the identification of famous faces. *Brain and Language*, *93*, 338-348.
- Hsu, M., Bhatt, M., Adolphs, R., Tranel, D., & Camerer, C.F. (2005). Neural systems responding to degrees of uncertainty in human decision-making. *Science*, *310*, 1680-1683.
- Kemmerer, D., Tranel, D., & Manzel, K. (2005). An exaggerated effect for proper nouns in a case of superior written over spoken word production. *Cognitive Neuropsychology*, *22*, 3-27.
- Mosch, S.C., Max, J.E., & Tranel, D. (2005). A matched lesion analysis of childhood versus adult-onset brain injury due to unilateral stroke: Another perspective on neural plasticity and recovery of social functioning. *Cognitive and Behavioral Neurology*, *18*, 5-17.
- Todd, M., Hindman, B.J., Clarke, W.R., Torner, J.C., and the Intraoperative Hypothermia for Aneurysm Surgery Trial (IHAST) Investigators. (2005). Mild intraoperative hypothermia during surgery for intracranial aneurysm. *New England Journal of Medicine*, *352*, 135-145.
- Tranel, D. (2005). On the use of neuropsychology to diagnose brain damage and study brain-behavior relationships: A comment on Luria. *Cortex*, *41*, 259-262.
- Tranel, D., Damasio, H., Denburg, N.L., & Bechara, A. (2005). Does gender play a role in functional asymmetry of ventromedial prefrontal cortex? *Brain*, *128*, 2872-2881.
- Tranel, D., Enekechi, N., & Manzel, K. (2005). A test for measuring recognition and naming of landmarks. *Journal of Clinical and Experimental Neuropsychology*, *27*, 102-126.
- Tranel, D., Grabowski, T.J., Lyon, J., & Damasio, H. (2005). Naming the same entities from visual or from auditory stimulation engages similar regions of left inferotemporal cortices. *Journal of Cognitive Neuroscience*, *17*, 1293-1305.
- Tranel, D., Martin, C., Damasio, H., Grabowski, T., & Hichwa, R. (2005). Effects of noun-verb homonymy on the neural correlates of naming concrete entities and actions. *Brain and Language*, *92*, 288-299.

2004

- Adolphs, R., & Tranel, D. (2004). Impaired judgments of sadness but not happiness following bilateral amygdala damage. *Journal of Cognitive Neuroscience*, *16*, 453-462.
- Buchanan, T.W., Kern, S., Allen, J.S., Tranel, D., & Kirschbaum, C. (2004). Circadian regulation of cortisol following hippocampal damage in humans. *Biological Psychiatry*, *56*, 651-656.
- Buchanan, T.W., Tranel, D., & Adolphs, R. (2004). Anteromedial temporal lobe damage blocks startle modulation by fear and disgust. *Behavioral Neuroscience*, *118*, 429-437.
- Damasio, H., Tranel, D., Grabowski, T., Adolphs, R., & Damasio, A. (2004). Neural systems behind word and concept retrieval. *Cognition*, *92*, 179-229.

- Heberlein, A.S., Adolphs, R., Tranel, D., & Damasio, H. (2004). Cortical regions for judgments of emotions and personality traits from point-light walkers. *Journal of Cognitive Neuroscience*, *16*, 1143-1158.
- Karafin, M.S., Tranel, D., & Adolphs, R. (2004). Dominance attributions following damage to the ventromedial prefrontal cortex. *Journal of Cognitive Neuroscience*, *16*, 1796-1804.
- Martin, C.O., Denburg, N.L., Tranel, D., Granner, M.A., & Bechara, A. (2004). The effects of vagal nerve stimulation on decision-making. *Cortex*, *40*, 605-612.
- Tranel, D. (2004). Preparing to testify: Words of advice to the forensic psychologist. *Clinician's Research Digest*, Supplemental Bulletin 31, November.
- Tranel, D., & Kemmerer, D. (2004). Neuroanatomical correlates of locative prepositions. *Cognitive Neuropsychology*, *21*, 719-749.

2003

- Adolphs, R., & Tranel, D. (2003). Amygdala damage impairs emotion recognition from scenes only when they contain facial expressions. *Neuropsychologia*, *41*, 1281-1289.
- Adolphs, R., Tranel, D., & Damasio, A.R. (2003). Dissociable neural systems for recognizing emotions. *Brain and Cognition*, *52*, 61-69.
- Bar-On, R., Tranel, D., Denburg, N.L., & Bechara, A. (2003). Exploring the neurological substrate of emotional and social intelligence. *Brain*, *126*, 1790-1800.
- Buchanan, T.W., Tranel, D., & Adolphs, R. (2003). A specific role for the human amygdala in olfactory memory. *Learning and Memory*, *10*, 319-325. PMID: 127997.
- Denburg, N.L., Buchanan, T.W., Tranel, D., & Adolphs, R. (2003). Evidence for preserved emotional memory in normal older persons. *Emotion*, *3*, 239-253.
- Grabowski, T.J., Damasio, H., Eichhorn, G.R., & Tranel, D. (2003). Effects of gender on blood flow correlates of naming concrete entities. *NeuroImage*, *20*, 940-954.
- Grabowski, T.J., Damasio, H., Tranel, D., Cooper, G.E., Ponto, L.L.B., Watkins, G.L., & Hichwa, R.D. (2003). Residual naming after damage to the left temporal pole: a PET activation study. *NeuroImage*, *19*, 846-860.
- Heberlein, A.S., Adolphs, R., Pennebaker, J.W., & Tranel, D. (2003). Effects of damage to right-hemisphere brain structures on spontaneous emotional and social judgments. *Political Psychology*, *24*, 705-726.
- Kemmerer, D., & Tranel, D. (2003). A double dissociation between the meanings of action verbs and locative prepositions. *Neurocase*, *9*, 421-435.
- Tranel, D., Damasio, H., Eichhorn, G.R., Grabowski, T.J., Ponto, L.L.B., & Hichwa, R.D. (2003). Neural correlates of naming animals from their characteristic sounds. *Neuropsychologia*, *41*, 847-854.
- Tranel, D., Kemmerer, D., Damasio, H., Adolphs, R., & Damasio, A.R. (2003). Neural correlates of conceptual knowledge for actions. *Cognitive Neuropsychology*, *20*, 409-432.

2002

- Adolphs, R., Baron-Cohen, S., & Tranel, D. (2002). Impaired recognition of social emotions following amygdala damage. *Journal of Cognitive Neuroscience*, *14*, 1264-1274.
- Adolphs, R., Damasio, H., & Tranel, D. (2002). Neural systems for recognition of emotional prosody: A 3-D lesion study. *Emotion*, *2*, 23-51.
- Tranel, D., Bechara, A., & Denburg, N.L. (2002). Asymmetric functional roles of right and left ventromedial prefrontal cortices in social conduct, decision-making, and emotional processing. *Cortex*, *38*, 589-612.

2001

- Adolphs, R., Denburg, N.L., & Tranel, D. (2001). The amygdala's role in long-term declarative memory for gist and detail. *Behavioral Neuroscience*, *115*, 983-992.
- Adolphs, R., Jansari, A., & Tranel, D. (2001). Hemispheric perception of emotional valence from facial expressions. *Neuropsychology*, *15*, 516-524.
- Adolphs, R., Tranel, D., & Damasio, H. (2001). Emotion recognition from faces and prosody following temporal lobectomy. *Neuropsychology*, *15*, 396-404.
- Buchanan, T.W., Denburg, N.L., Tranel, D., & Adolphs, R. (2001). Verbal and nonverbal emotional memory following unilateral amygdala damage. *Learning and Memory*, *8*, 326-335. PMID 11388.
- Damasio, H., Grabowski, T.J., Tranel, D., Ponto, L.L.B., Hichwa, R.D., & Damasio, A.R. (2001). Neural correlates of naming actions and of naming spatial relations. *NeuroImage*, *13*, 1053-1064.
- Grabowski, T.J., Damasio, H., Tranel, D., Ponto, L.L.B., Hichwa, R.D., & Damasio, A.R. (2001). A role for left temporal pole in the retrieval of words for unique entities. *Human Brain Mapping*, *13*, 199-212.
- Jones, R.D., & Tranel, D. (2001). Severe developmental prosopagnosia in a child with superior intellect. *Journal of Clinical and Experimental Neuropsychology*, *23*, 265-273.
- Kemmerer, D., Tranel, D., & Barrash, J. (2001). Addendum to "Patterns of dissociation in the processing of verb meanings in brain-damaged subjects." *Language and Cognitive Processes*, *16*, 461-463.
- Kemmerer, D., Tranel, D., & Barrash, J. (2001). Patterns of dissociation in the processing of verb meanings in brain-damaged subjects. *Language and Cognitive Processes*, *16*, 1-34.
- Tranel, D. (2001). Combs, ducks, and the brain. *The Lancet*, *357*, 1818-1819.
- Tranel, D., Adolphs, R., Damasio, H., & Damasio, A.R. (2001). A neural basis for the retrieval of words for actions. *Cognitive Neuropsychology*, *18*, 655-670.

2000

- Adolphs, R., Damasio, H., Tranel, D., Cooper, G., & Damasio, A.R. (2000). A role for somatosensory cortices in the visual recognition of emotion as revealed by three-dimensional lesion mapping. *Journal of Neuroscience*, *20*, 2683-2690.
- Adolphs, R., Tranel, D., & Denburg, N. (2000). Impaired emotional declarative memory following unilateral amygdala damage. *Learning and Memory*, *7*, 180-186. PMID PMC311327.
- Anderson, S.W., Damasio, H., Tranel, D., & Damasio, A.R. (2000). Long-term sequelae of prefrontal cortex damage acquired in early childhood. *Developmental Neuropsychology*, *18*, 281-296.
- Barrash, J., Damasio, H., Adolphs, R., & Tranel, D. (2000). The neuroanatomical correlates of route learning impairment. *Neuropsychologia*, *38*, 820-836.
- Barrash, J., Tranel, D., & Anderson, S.W. (2000). Acquired personality disturbances associated with bilateral damage to the ventromedial prefrontal region. *Developmental Neuropsychology*, *18*, 355-381.
- Bechara, A., Tranel, D., & Damasio, H. (2000). Characterization of the decision-making deficit of patients with ventromedial prefrontal cortex lesions. *Brain*, *123*, 2189-2202.
- Jansari, A., Tranel, D., & Adolphs, R. (2000). A valence-specific lateral bias for discriminating emotional facial expressions in free field. *Cognition and Emotion*, *14*, 341-353.
- Kemmerer, D., & Tranel, D. (2000). A double dissociation between linguistic and perceptual representations of spatial relationships. *Cognitive Neuropsychology*, *17*, 393-414.
- Kemmerer, D., & Tranel, D. (2000). Verb retrieval in brain-damaged subjects: 1. Analysis of stimulus, lexical, and conceptual factors. *Brain and Language*, *73*, 347-392.
- Kemmerer, D., & Tranel, D. (2000). Verb retrieval in brain-damaged subjects: 2. Analysis of errors. *Brain and Language*, *73*, 393-420.
- Manzel, K., Tranel, D., & Cooper, G. (2000). Cognitive and behavioral abnormalities in a case of central nervous system Whipple disease. *Archives of Neurology*, *57*, 399-403.
- Tranel, D. (2000). Commentary on Lees-Haley and Courtney: There is a need for reform. *Neuropsychology Review*, *10*, 177-178.
- Tranel, D., & Eslinger, P.J. (2000). Effects of early onset brain injury on the development of cognition and behavior. *Developmental Neuropsychology*, *18*, 273-280.

1999

- Adolphs, R., & Tranel, D. (1999). Intact recognition of emotional prosody following amygdala damage. *Neuropsychologia*, *37*, 1285-1292.
- Adolphs, R., & Tranel, D. (1999). Preferences for visual stimuli following amygdala damage. *Journal of Cognitive Neuroscience*, *11*, 610-616.
- Adolphs, R., Russell, J.A., & Tranel, D. (1999). A role for the human amygdala in recognizing emotional arousal from unpleasant stimuli. *Psychological Science*, *10*, 167-171.

- Adolphs, R., Tranel, D., Hamann, S., Young, A.W., Calder, A.J., Phelps, E.A., Anderson, A., Lee, G.P., & Damasio, A.R. (1999). Recognition of facial emotion in nine individuals with bilateral amygdala damage. *Neuropsychologia*, *37*, 1111-1117.
- Anderson, S.W., Bechara, A., Damasio, H., Tranel, D., & Damasio, A.R. (1999). Impairment of social and moral behavior related to early damage in the human prefrontal cortex. *Nature Neuroscience*, *2*, 1032-1037.
- Manzel, K., & Tranel, D. (1999). Development and standardization of a reading test for brain-damaged patients. *Developmental Neuropsychology*, *15*, 407-420.
- Suhr, J., Anderson, S., & Tranel, D. (1999). Progressive muscle relaxation in the management of behavioural disturbance in Alzheimer's disease. *Neuropsychological Rehabilitation*, *9*, 31-44.
- Tranel, D., & Damasio, A.R. (1999). The neurobiology of knowledge retrieval. *Behavioral and Brain Sciences*, *22*, 303.
- Zahn, T.P., Grafman, J., & Tranel, D. (1999). Frontal lobe lesions and electrodermal activity: effects of significance. *Neuropsychologia*, *37*, 1227-1241.

1998

- Adolphs, R., Schul, R., & Tranel, D. (1998). Intact recognition of facial emotion in Parkinson's disease. *Neuropsychology*, *12*, 253-258.
- Adolphs, R., Tranel, D., & Damasio, A.R. (1998). The human amygdala in social judgment. *Nature*, *393*, 470-474.
- Bechara, A., Damasio, H., Tranel, D., & Anderson, S.W. (1998). Dissociation of working memory from decision making within the human prefrontal cortex. *Journal of Neuroscience*, *18*, 428-437.
- Jones, R.D., Grabowski, T.J., & Tranel, D. (1998). The neural basis of retrograde memory: Evidence from positron emission tomography for the role of non-mesial temporal lobe structures. *NeuroCase*, *4*, 471-479.

1997

- Bechara, A., Damasio, H., Tranel, D., & Damasio, A.R. (1997). Deciding advantageously before knowing the advantageous strategy. *Science*, *275*, 1293-1295.
- Chu, C.-C., Tranel, D., Damasio, A.R., & Van Hoesen, G.W. (1997). The autonomic-related cortex: Pathology in Alzheimer's disease. *Cerebral Cortex*, *7*, 86-95.
- Fiez, J.A., & Tranel, D. (1997). Standardized stimuli and procedures for investigating the retrieval of lexical and conceptual knowledge for actions. *Memory and Cognition*, *25*, 543-569.
- Suhr, J., Tranel, D., Wefel, J., & Barrash, J. (1997). Memory performance after head injury: Contributions of malingering, litigation status, psychological factors, and medication use. *Journal of Clinical and Experimental Neuropsychology*, *19*, 500-514.
- Tranel, D. (1997). Emotional processing and the human amygdala. *Trends in Cognitive Sciences*, *1*, 46-47.

Tranel, D., Benton, A., & Olson, K. (1997). A 10-year longitudinal study of cognitive changes in elderly persons. *Developmental Neuropsychology*, *13*, 87-96.

Tranel, D., Damasio, H., & Damasio, A.R. (1997). A neural basis for the retrieval of conceptual knowledge. *Neuropsychologia*, *35*, 1319-1327.

Tranel, D., Logan, C.G., Frank, R.J., & Damasio, A.R. (1997). Explaining category-related effects in the retrieval of conceptual and lexical knowledge for concrete entities: Operationalization and analysis of factors. *Neuropsychologia*, *35*, 1329-1339.

1996

Adolphs, R., Damasio, H., Tranel, D., & Damasio, A.R. (1996). Cortical systems for the recognition of emotion in facial expressions. *Journal of Neuroscience*, *16*, 7678-7687.

Bechara, A., Tranel, D., Damasio, H., & Damasio, A.R. (1996). Failure to respond autonomically to anticipated future outcomes following damage to prefrontal cortex. *Cerebral Cortex*, *6*, 215-225.

Damasio, H., Grabowski, T.J., Tranel, D., Hichwa, R.D., & Damasio, A.R. (1996). A neural basis for lexical retrieval. *Nature*, *380*, 499-505.

Hamann, S.B., Stefanacci, L., Squire, L.R., Adolphs, R., Tranel, D., Damasio, H., & Damasio, A.R. (1996). Recognizing facial emotion. *Nature*, *379*, 497.

Relkin, N., Plum, F., Mattis, S., Eidelberg, D., & Tranel, D. (1996). Impulsive homicide associated with an arachnoid cyst and unilateral frontotemporal cerebral dysfunction. *Seminars in Clinical Neuropsychiatry*, *1*, 172-183.

1995

Adolphs, R., Tranel, D., Damasio, H., & Damasio, A.R. (1995). Fear and the human amygdala. *Journal of Neuroscience*, *15*, 5879-5891.

Bechara, A., Tranel, D., Damasio, H., Adolphs, R., Rockland, C., & Damasio, A.R. (1995). Double dissociation of conditioning and declarative knowledge relative to the amygdala and hippocampus in humans. *Science*, *269*, 1115-1118.

Tranel, D., Damasio, H., & Damasio, A.R. (1995). Double dissociation between overt and covert face recognition. *Journal of Cognitive Neuroscience*, *7*, 425-432.

1994

Adolphs, R., Tranel, D., Damasio, H., & Damasio, A.R. (1994). Impaired recognition of emotion in facial expressions following bilateral damage to the human amygdala. *Nature*, *372*, 669-672.

Auerbach, S.H., Cicerone, K.D., Levin, H.S., & Tranel, D. (1994). What you can learn from neuropsychologic testing. *Patient Care*, *28*, 97-116.

Chu, C.-C., Tranel, D., & Damasio, H. (1994). How reliable are occipital asymmetry measurements? *Neuropsychologia*, *32*, 1503-1513.

Lowe, L.P., Tranel, D., Wallace, R.B., & Welty, T.K. (1994). Type II Diabetes Mellitus and cognitive function: A population-based study of Native Americans. *Diabetes Care*, *17*, 891-896.

Tranel, D. (1994). Assessment of higher-order visual function. *Current Opinion in Ophthalmology*, 5, 29-37.

Tranel, D. (1994). The release of psychological data to non-experts: Ethical and legal considerations. *Professional Psychology: Research and Practice*, 25, 33-38.

Tranel, D., & Damasio, H. (1994). Neuroanatomical correlates of electrodermal skin conductance responses. *Psychophysiology*, 31, 427-438.

Tranel, D., Damasio, A.R., Damasio, H., & Brandt, J.P. (1994). Sensorimotor skill learning in amnesia: Additional evidence for the neural basis of nondeclarative memory. *Learning and Memory*, 1, 165-179.

1993

Anderson, S. W., Saver, J., Tranel, D., & Damasio, H. (1993). Acquired agraphia caused by focal brain damage. *Acta Psychologica*, 82, 193-210.

Damasio, A.R., & Tranel, D. (1993). Nouns and verbs are retrieved with differently distributed neural systems. *The Proceedings of the National Academy of Sciences*, 90, 4957-4960. PMID PMC46632.

Damasio, A.R., Tranel, D., & Damasio, H. (1993). Similarity of structure and the profile of visual recognition defects: A comment on Gaffan and Heywood. *Journal of Cognitive Neuroscience*, 5, 371-372.

Nahm, F.K.D., Tranel, D., Damasio, H., & Damasio, A.R. (1993). Cross-modal associations and the human amygdala. *Neuropsychologia*, 31, 727-744.

Tranel, D., & Damasio, A. R. (1993). The covert learning of affective valence does not require structures in hippocampal system or amygdala. *Journal of Cognitive Neuroscience*, 5, 79-88.

1992

Damasio, A. R., & Tranel, D. (1992). Knowledge systems. *Current Opinion in Neurobiology*, 2, 186-190.

Jones, R. D., Tranel, D., Benton, A. L. & Paulsen, J. (1992). Differentiating dementia from "pseudodementia" early in the clinical course: Utility of neuropsychological tests. *Neuropsychology*, 6, 13-21.

Tranel, D. (1992). Neurology of language. *Current Opinion in Neurology and Neurosurgery*, 5, 77-82.

1991

Anderson, S. W., Damasio, H., Jones, R. D., & Tranel, D. (1991). Wisconsin Card Sorting Test performance as a measure of frontal lobe damage. *Journal of Clinical and Experimental Neuropsychology*, 13, 909-922.

Marsh, E. E. III, Biller, J., Tranel, D., Adams, H. P. Jr., & Knepper, L. (1991). Etiology of stroke in Broca's aphasia. *Journal of Stroke and Cerebrovascular Diseases*, 1, 57-60.

Tranel, D. (1991). Dissociated verbal and nonverbal retrieval and learning following left anterior temporal damage. *Brain and Cognition*, *15*, 187-200.

Tranel, D. (1991). What has been rediscovered in "Rediscovering tactile agnosia"? *Mayo Clinic Proceedings*, *66*, 210-214.

1990

Anderson, S. W., Damasio, H., & Tranel, D. (1990). Neuropsychological impairments associated with lesions caused by tumor or stroke. *Archives of Neurology*, *47*, 397-405.

Damasio, A. R., & Tranel, D. (1990). Knowing that "Colorado" goes with "Denver" does not imply knowledge that "Denver" is in "Colorado." *Behavioural Brain Research*, *40*, 193-200.

Damasio, A. R., Damasio, H., Tranel, D., & Brandt, J. (1990). Neural regionalization of knowledge access: Preliminary evidence. *Symposia on Quantitative Biology*, *55*, 1039-1047 (Cold Spring Harbor Laboratory Press).

Damasio, A. R., Tranel, D., & Damasio, H. (1990). Face agnosia and the neural substrates of memory. *Annual Review of Neuroscience*, *13*, 89-109.

Damasio, A. R., Tranel, D., & Damasio, H. (1990). Individuals with sociopathic behavior caused by frontal damage fail to respond autonomically to social stimuli. *Behavioural Brain Research*, *41*, 81-94.

Godersky, J. C., Gentry, L. R., Tranel, D., Dyste, G. N., & Danks, K. R. (1990). Magnetic resonance imaging and neurobehavioural outcome in traumatic brain injury. *Acta Neurochirurgica*, *51*, 311-314.

Graff-Radford, N. R., Damasio, A. R., Hyman, B. T., Hart, M. N., Tranel, D., Damasio, H., Van Hoesen, G. W., & Resai, K. (1990). Progressive aphasia in a patient with Pick's disease: A neuropsychological, radiologic, and anatomic study. *Neurology*, *40*, 620-626.

Graff-Radford, N. R., Tranel, D., Van Hoesen, G. W., & Brandt, J. P. (1990). Diencephalic amnesia. *Brain*, *113*, 1-25.

Loes, D., Biller, J., Yuh, W., Hart, M., Godersky, J., Adams, Jr. H. P., Keefauver, S., & Tranel, D. (1990). Leukoencephalopathy in cerebral amyloid angiopathy: Magnetic resonance imaging in four cases. *American Journal of Neuroradiology*, *11*, 485-488.

Robin, D. A., Tranel, D., & Damasio, H. (1990). Auditory perception of temporal and spectral events in patients with focal left and right cerebral lesions. *Brain and Language*, *39*, 539-555.

Tranel, D., & Hyman, B. T. (1990). Neuropsychological correlates of bilateral amygdala damage. *Archives of Neurology*, *47*, 349-355.

1989

Anderson, S. W., & Tranel, D. (1989). Awareness of disease states following cerebral infarction, dementia, and head trauma: Standardized assessment. *The Clinical Neuropsychologist*, *3*, 327-339.

Hyman, B. T., & Tranel, D. (1989). Hemianesthesia and aphasia: An anatomical and behavioral study. *Archives of Neurology*, *46*, 816-819.

Knepper, L. E., Biller, J., Tranel, D., Adams, H. P. Jr., & Marsh, E. E. (1989). Etiology of stroke in patients with Wernicke's aphasia. *Stroke*, *20*, 1730-1732.

Tranel, D., & Damasio, H. (1989). Intact electrodermal skin conductance responses after bilateral amygdala damage. *Neuropsychologia*, *27*, 381-390.

1988

Tranel, D., & Damasio, A. R. (1988). Nonconscious face recognition in patients with face agnosia. *Behavioural Brain Research*, *30*, 235-249.

Tranel, D., Brady, D., Van Hoesen, G., & Damasio, A. (1988). Parahippocampal projections to posterior auditory association cortex (Tpt) in the rhesus monkey. *Experimental Brain Research*, *70*, 406-416.

Tranel, D., Damasio, A. R., & Damasio, H. (1988). Intact recognition of facial expression, gender, and age in patients with impaired recognition of face identity. *Neurology*, *38*, 690-696.

1987

Tranel, D., Biller, J., Damasio, H., Adams, H.P., & Cornell, S. (1987). Global aphasia without hemiparesis. *Archives of Neurology*, *44*, 304-308.

Tranel, D., Hall, L., Olson, S., & Tranel, N. N. (1987). Evidence for a right-hemisphere developmental learning disability. *Developmental Neuropsychology*, *3*, 113-127.

1986

Graff-Radford, N. R., Bosch, E. P., Stears, J. C., & Tranel, D. (1986). Developmental Foix-Chavany-Marie syndrome in identical twins. *Annals of Neurology*, *20*, 632-635.

1985

Tranel, D., & Damasio, A. R. (1985). Knowledge without awareness: An autonomic index of facial recognition by prosopagnosics. *Science*, *228*, 1453-1454.

Tranel, D., Fowles, D. C., & Damasio, A. R. (1985). Electrodermal discrimination of familiar and unfamiliar faces: A methodology. *Psychophysiology*, *22*, 403-408.

1983

Tranel, D. T. (1983). The effects of monetary incentive and frustrative non-reward on heart rate and electrodermal activity. *Psychophysiology*, *20*, 652-657.

1982

Fowles, D. C., Fisher, A. E., & Tranel, D. T. (1982). The heart beats to reward: The effect of monetary incentive on heart rate. *Psychophysiology*, *19*, 506-513.

Tranel, D. T., Fisher, A. E., & Fowles, D. C. (1982). Magnitude of incentive effects on heart rate. *Psychophysiology*, *19*, 514-519.

B. Chapters

In preparation

Reber, J., & Tranel, D. Neuropsychological syndromes. In J. Grafman & M. D'Esposito (Eds.), *The frontal lobes (Handbook of Clinical Neurology)*. Amsterdam: Elsevier (in preparation)

In press

Casas, R., Calamia, M., & Tranel, D. A global perspective on neuropsychological assessment. In S.G. Hofmann (Ed.), *Clinical psychology: A global perspective*. New York: Wiley-Blackwell, (in press)

Pennycook, G., Tranel, D., Warner, K., & Asp, E.W. Beyond reasonable doubt: Cognitive and neuropsychological implications for religious disbelief. In A. Coles (Ed.), *Neurology of religion*. Cambridge, UK: Cambridge University Press (in press)

Reber, J., & Tranel, D. Emotions are important for advantageous decision-making: A neuropsychological perspective. In A. Fox, R. Lapate, A. Shackman, & R. Davidson (Eds.), *The nature of emotion* (2nd ed.). New York: Oxford University Press (in press)

Shim, H., & Tranel, D. Behavioral neurology. In R. N. Rosenberg (Editor-in-Chief), *Atlas of clinical neurology* (4th ed., pp. xxx-xxx). New York: Springer Science, Current Medicine Group (in press)

Yamada, T.H., Denburg, N.L., & Tranel, D. Approach to the patient with memory impairment. In J. Biller (Ed.), *Practical neurology* (5th ed., pp. xx-xx). Philadelphia: Lippincott Williams & Wilkins. (in press)

2016

Feinstein, J., Adolphs, R., & Tranel, D. (2016). A tale of survival from the world of patient SM. In D.G. Amaral & R. Adolphs (Eds.), *Living without an amygdala* (pp. 1-38). New York: The Guilford Press.

Nikolas, M., Markon, K., & Tranel, D. (2016). Psychopathology: Neurobiological and genetic mechanisms. In J.E. Maddux & B.A. Winstead (Eds.), *Psychopathology: Foundations for a contemporary understanding* (4th ed., pp. 27-58). New York: Routledge/Taylor & Francis.

Warner, K., Tranel, D., & Asp, E. (2016). The henchman's brain: Neuropsychological implications of authoritarianism and prejudice. In J.R. Absher & J. Cloutier (Eds.), *Neuroimaging personality, social cognition, and character* (pp. 325-335). Amsterdam: Elsevier/Academic Press.

2015

Levin, I.P., McElroy, T., Gaeth, G.J., Hedgcock, W., Denburg, N.L., & Tranel, D. (2015). Studying decision processes through behavioral and neuroscience analyses of framing effect. In E.A. Wilhelms & V.F. Reyna (Eds.), *Neuroeconomics, judgment, and decision making* (pp. 131-156). New York: Taylor & Francis.

2013

- Anderson, S. W., & Tranel, D. (2013). Social outcome following early-life damage to prefrontal cortex. In D. T. Stuss & R. T. Knight (Eds.), *Principles of frontal lobe function* (2nd ed., pp. 455-465). New York: Oxford University Press.
- Asp, E., & Tranel, D. (2013). False tagging theory: Toward a unitary account of prefrontal cortex function. In D. T. Stuss & R. T. Knight (Eds.), *Principles of frontal lobe function* (2nd ed., pp. 383-416). New York: Oxford University Press.
- Tranel, D. (2013). Introduction to Section V: Social neuroscience. In D. T. Stuss & R. T. Knight (Eds.), *Principles of frontal lobe function* (2nd ed., pp. 355-360). New York: Oxford University Press.

2012

- Carter, C., & Tranel, D. (2012). Mind-body interactions. In D. Robertson, I. Biaggioni, G. Burnstock, P.A. Low, & J.F.R. Paton (Eds.), *Primer on the autonomic nervous system*, Third Edition, pp. 295-299. San Diego, CA: Elsevier/Academic Press.
- Damasio, A.R., Anderson, S.W., & Tranel, D. (2012). The frontal lobes. In K. M. Heilman & E. Valenstein (Eds.), *Clinical neuropsychology* (5th ed., pp. 417-465). New York: Oxford University Press.
- Denburg, N.L., & Tranel, D. (2012). Acalculia and disturbances of the body schema. In K. M. Heilman & E. Valenstein (Eds.), *Clinical neuropsychology* (5th ed., pp. 169-197). New York: Oxford University Press.
- Gupta, R., & Tranel, D. (2012). Memory, neural substrates. In V. S. Ramachandran (Ed.), *Encyclopedia of human behavior* (2nd ed., pp. 593-600). San Diego, CA: Academic Press.
- Taber-Thomas, B. C., & Tranel, D. (2012). Social and moral functioning: A cognitive neuroscience perspective. In V. Anderson & M.H. Beauchamp (Eds.), *Developmental social neuroscience and childhood brain insult: Theory and practice* (pp. 65-90). New York: The Guilford Press.
- Tranel, D., Denburg, N.L., & Yamada, T.H. (2012). Approach to the patient with memory impairment. In J. Biller (Ed.), *Practical neurology* (4th ed., pp. 33-44). Philadelphia: Lippincott Williams & Wilkins.
- Starkstein, S. E., & Tranel, D. (2012). Neurological and psychiatric aspects of emotion. In Boller, F. (Ed.), *Handbook of clinical neurology* (Vol. 105, pp. 53-74). Amsterdam: Elsevier Press.
- Vigliocco, G., Tranel, D., & Druks, J. (2012). Language production: Patient and imaging research. In M.J. Spivey, K. McRaie, & M.F. Joanisse (Eds.), *The Cambridge handbook of psycholinguistics* (Chapter 22, pp. 443-461.). Cambridge, MA: Cambridge University Press.

2011

- Beadle, J., & Tranel, D. (2011). Social affective neuroscience: A neuropsychological perspective. In J. Decety & J. T. Cacioppo (Eds.), *The Oxford handbook of social neuroscience* (Chapter 5, pp. 50-68). New York: Oxford University Press.

Cacioppo, J. T., Berntson, G. G., Bechara, A., Tranel, D., & Hawley, L. C. (2011). Could an aging brain contribute to subjective well-being?: The value added by a social neuroscience perspective. In A. Todorov, S. T. Fiske, & D. Prentice (Eds.), *Social neuroscience: Toward understanding the underpinnings of the social mind* (pp. 249-262). New York: Oxford University Press.

2010

Beadle, J., & Tranel, D. Frontal lobe disorders. (2010). In W. E. Craighead & C. B. Nemeroff (Eds.), *The concise Corsini encyclopedia of psychology and behavioral science* (4th ed.). New York: John Wiley & Sons.

Casas, R., & Tranel, D. (2010). Anomic aphasia. In I. B. Weiner & W. E. Craighead (Eds.), *The Corsini encyclopedia of psychology* (4th ed., Vol. 1, pp. 110-112). New York: John Wiley & Sons.

Tranel, D., Bechara, A., & Damasio, A. R. (2010). Acquired sociopathy. In D. Barch (Ed.), *Cognitive and affective neuroscience of psychopathology*. New York: Oxford University Press.

Tranel, D., & Cordry, D. (2010). Phineas Gage. In I. B. Weiner & W. E. Craighead (Eds.), *The Corsini encyclopedia of psychology* (4th ed., Vol. 3, pp. 1235-1237). New York: John Wiley & Sons.

Tranel, D., Paulsen, J. S., & Hoth, K. F. (2010). Anosognosia in Huntington's disease. In G. P. Prigatano (Ed.), *The study of anosognosia* (pp. 147-158). New York: Oxford University Press.

2009

Buchanan, T. W., Tranel, D., & Adolphs, R. (2009). The human amygdala in social function. In P. W. Whalen & L. A. Phelps (Eds.), *The human amygdala* (pp. 289-318). New York: The Guilford Press.

Casas, R., & Tranel, D. (2009). Lexical impairments following brain injury. In L. R. Squire (Ed.), *Encyclopedia of neuroscience* (Vol. 5, pp. 463-466). Oxford: Academic Press.

Feinstein, J. S., & Tranel, D. (2009). Online measures of non-conscious processing. In T. Bayne, A. Cleeremans & P. Wilken (Eds.), *The Oxford companion to consciousness* (pp. 485-487). New York: Oxford University Press.

Hernandez, M., Denburg, N. L., & Tranel, D. (2009). A neuropsychological perspective on the role of the prefrontal cortex in reward processing and decision-making. In J. -C. Dreher & L. Tremblay (Eds.), *Handbook of reward and decision making* (pp. 291-306). Amsterdam: Elsevier Press.

Tranel, D. (2009). The Iowa-Benton school of neuropsychological assessment. In I. Grant, & K. M. Adams (Eds.), *Neuropsychological assessment of neuropsychiatric disorders* (3rd ed., pp. 66-83). New York: Oxford University Press.

Tranel, D., & Denburg, N. L. (2009). Approach to the patient with memory impairment. In J. Biller (Ed.) *Practical neurology* (3rd ed., pp. 41-54). New York: Lippincott Williams & Wilkins.

Tranel, D., & Grabowski, T. J. (2009). Behavioral neurology. In R. N. Rosenberg (Editor-in-Chief), *Atlas of clinical neurology* (3rd ed., pp. 259-287). New York: Springer Science, Current Medicine Group.

2008

Casas, R., & Tranel, D. (2008). Higher brain functions. In M. P. Conn (Ed.), *Neuroscience in medicine* (3rd ed., pp. 651-666). New York: Humana/Springer Press Inc.

Harel, B. T., & Tranel, D. (2008). Functional neuroanatomy: Neuropsychological correlates of cortical and subcortical damage. In S. C. Yudofsky, & R. E. Hales (Eds.), *Neuropsychiatry and behavioral neurosciences* (5th ed., pp. 45-91). Washington, D.C.: American Psychiatric Press.

Tranel, D. (2008). Theories of clinical neuropsychology and brain-behavior relationships: Luria and beyond. In J. E. Morgan & J. H. Ricker (Eds.), *Textbook of clinical neuropsychology* (pp. 27-37). New York: Taylor and Francis.

2007

Koenigs, M., Tranel, D., & Damasio, A. R. (2007). The lesion method in cognitive neuroscience. In J. T. Cacioppo, L. G. Tassinary & G. G. Berntson. (Eds.), *Handbook of psychophysiology* (3rd ed., pp 139-156). Cambridge, MA: Cambridge University Press.

Tranel, D., Mendez, M. F., Cummings, J. L., Stern, Y., & Sackeim, H. A. (2007). Neuroanatomy and functional neuropathology. In J. A. Bourgeois, R. E. Hales, & S. C. Yudofsky (Eds.), *The American Psychiatric Publishing Board Prep and Review Guide for Psychiatry* (pp. 7-15). Washington, DC: American Psychiatric Publishing, Inc.

2006

Koenigs, M., & Tranel, D. (2006). Pseudopsychopathy: A perspective from cognitive neuroscience. In D. H. Zald & S. L. Rauch (Eds.), *The orbitofrontal cortex* (pp. 597-619). New York: Oxford University Press.

Naqvi, N., Tranel, D., & Bechara, A. (2006). Visceral and decision-making functions of the ventromedial prefrontal cortex. In D. H. Zald & S. L. Rauch (Eds.), *The orbitofrontal cortex* (pp. 325-353). New York: Oxford University Press.

2005

Bar-On, R., Tranel, D., Denburg, N., & Bechara, A. (2005). Exploring the neurological substrate of emotional and social intelligence. Reprinted. In J. Cacioppo & G. Bernston (Eds.), *Social Neuroscience: Key Readings in Social Psychology* (pp. 223-237). New York: Psychology Press.

Jones, R. D., & Tranel, D. (2005). Cognitive impairments after stroke: Diagnosis and treatment. In H. Adams (Ed.), *Handbook of cerebrovascular diseases* (pp. 243-260). New York: Marcel Dekker.

Wright, J. D., & Tranel, D. (2005). Mild cognitive impairment. In: UpToDate, *Neurodegenerative disease, Dementia Section*.

2004

Adolphs, R., & Tranel, D. (2004). Emotion. In M. Rizzo & P. J. Eslinger (Eds.), *Principles and practice of behavioral neurology and neuropsychology* (pp. 457-474). Philadelphia: Elsevier/Saunders.

Anderson, S. W., Tranel, D., & Denburg, N. L. (2004). Agraphia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (2nd ed.). Elsevier's Encyclopedia of Neuroscience on CD-ROM.

- Tranel, D. (2004). Anomic aphasia. In W. E. Craighead & C. B. Nemeroff (Eds.), *The concise Corsini encyclopedia of psychology and behavioral science* (3rd ed., pp. 60-62). New York: John Wiley & Sons.
- Tranel, D. (2004). Mind-body interactions. In D. Robertson, I. Biaggioni, G. Burnstock, & P.A. Low (Eds.), *Primer on the autonomic nervous system* (2nd ed., pp. 194-197). Amsterdam: Elsevier Academic Press.
- Tranel, D. (2004). Phineas Gage. In W. E. Craighead & C. B. Nemeroff (Eds.), *The concise Corsini encyclopedia of psychology and behavioral science* (3rd ed., pp. 693-694). New York: John Wiley & Sons.
- Tranel, D., & Denburg, N. L. (2004). Agnosia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (2nd ed.). Elsevier's **Encyclopedia of Neuroscience** on CD-ROM.
- Tranel, D., & Denburg, N. L. (2004). Alexia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (2nd ed.). Elsevier's Encyclopedia of Neuroscience on CD-ROM.
- Tranel, D., & Denburg, N. L. (2004). Balint's syndrome. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (2nd ed.). Elsevier's Encyclopedia of Neuroscience on CD-ROM.
- Tranel, D., & Denburg, N. L. (2004). Prosopagnosia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (2nd ed.). Elsevier's Encyclopedia of Neuroscience on CD-ROM.

2003

- Denburg, N. L., & Tranel, D. (2003). Acalculia and disturbances of the body schema. In K. M. Heilman & E. Valenstein (Eds.), *Clinical neuropsychology* (4th ed., pp. 161-184). New York: Oxford University Press.
- Tranel, D. (2003). Disorders of color processing. In T. E. Feinberg & M. J. Farah (Eds.), *Behavioral neurology and cognitive neuropsychology* (2nd ed., pp. 243-256). New York: McGraw Hill.
- Tranel, D. (2003). Higher brain functions. In M. P. Conn (Ed.), *Neuroscience in medicine* (2nd ed., pp. 621-636). New York: Humana Press Inc.
- Tranel, D., Grabowski, T. J., & Damasio, H. (2003). Behavioral neurology. In R. N. Rosenberg (Editor-in-Chief), *Atlas of clinical neurology* (2nd ed., pp. 243-267). Philadelphia: Current Medicine, Inc.

2002

- Anderson, S. W., & Tranel, D. (2002). Neuropsychological consequences of dysfunction in human dorsolateral prefrontal cortex. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2nd ed., Vol. 7, pp. 145-156). (J. Grafman, Section Editor). Amsterdam: Elsevier.
- Bechara, A., Tranel, D., & Damasio, A. R. (2002). The somatic marker hypothesis and decision-making. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2nd ed., Vol. 7, pp. 117-143) (J. Grafman, Section Editor). Amsterdam: Elsevier.

- Jones, R. D., & Tranel, D. (2002). Visual disorders. In V. S. Ramachandran (Ed.), *Encyclopedia of the human brain* (Vol. 4, pp. 775-789). Amsterdam: Elsevier Science.
- Tranel, D. (2002). Emotion, decision-making, and the ventromedial prefrontal cortex. In D. T. Stuss & R. T. Knight (Eds.), *Principles of frontal lobe function* (pp. 338-353). New York: Oxford University Press.
- Tranel, D. (2002). Functional neuroanatomy: Neuropsychological correlates of cortical and subcortical damage. In S. C. Yudofsky, & R. E. Hales (Eds.), *Textbook of neuropsychiatry and clinical neurosciences* (4th ed., pp. 71-113). Washington, D.C.: American Psychiatric Press.
- Tranel, D., & Damasio, A. R. (2002). Neurobiological foundations of human memory. In A.D. Baddeley, M. Kopelman, & B. A. Wilson (Eds.), *The handbook of memory disorders* (2nd ed., pp. 17-56). New York: John Wiley and Sons, Ltd.
- Tranel, D., & Denburg, N. L. (2002). Approach to the patient with memory impairment. In J. Biller (Ed.) *Practical neurology* (2nd ed., pp. 40-53). New York: Lippincott Williams & Wilkins.

2001

- Adolphs, R., Tranel, D., & Damasio, A. R. (2001). Neural systems subserving emotion: lesion studies of the amygdala, somatosensory cortices and ventromedial prefrontal cortices. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2nd ed., Vol. 5, pp. 89-110) (G. Gainotti, Section Editor). Amsterdam: Elsevier.
- Tranel, D. (2001). Anomic aphasia. In W.E. Craighead & C.B. Nemeroff (Eds.), *The Corsini encyclopedia of psychology and behavioral science* (3rd ed., Vol. 1, pp. 108-110). New York: John Wiley & Sons.
- Tranel, D. (2001). Central color processing and its disorders. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2nd ed., Vol. 4, pp. 1-14). (M. Behrmann, Section Editor). Amsterdam: Elsevier.
- Tranel, D. (2001). Phineas Gage. In W. E. Craighead & C. B. Nemeroff (Eds.), *The Corsini encyclopedia of psychology and behavioral science* (3rd ed., Vol.2, pp. 614-616). New York: John Wiley & Sons.
- Tranel, D. & Damasio, A. R. (2001). Agnosia. In N. J. Smelser & P. B. Baltes (Eds.), *International encyclopedia of the social & behavioral sciences* (pp. 322-326). Section on Behavioral and cognitive neuroscience (R. F. Thompson & J. L. McClelland, Section Editors). Oxford: Elsevier/Pergamon Press.

2000

- Adolphs, R., & Tranel, D. (2000). Emotion recognition and the human amygdala. In J. P. Aggleton (Ed.), *The amygdala: A functional analysis* (pp. 587-630). New York: Oxford University Press.
- Bechara, A., Tranel, D., & Damasio, A. R. (2000). Poor judgment in spite of high intellect: Neurological evidence for emotional intelligence. In R. Bar-On & J. D. A. Parker (Eds.), *The handbook of emotional intelligence* (pp. 192-214). San Francisco: Jossey-Bass/Wiley.

- Benton, A., & Tranel, D. (2000). Historical notes on reorganization of function and neuroplasticity. In H. S. Levin & J. Grafman (Eds.), *Cerebral reorganization of function after brain damage* (pp. 3-23). New York: Oxford University Press.
- Damasio, A. R., Tranel, D., & Rizzo, M. (2000). Disorders of complex visual processing. In M. M. Mesulam (Ed.), *Principles of behavioral and cognitive neurology* (2nd ed. pp. 332-372). New York: Oxford University Press.
- Tranel, D. (2000). Electrodermal activity in cognitive neuroscience: Neuroanatomical and neuropsychological correlates. In R. D. Lane & L. Nadel (Eds.), *Cognitive neuroscience of emotion* (pp. 192-224). New York: Oxford University Press.
- Tranel, D. (2000). Frontal lobe disorders. In A. E. Kazdin (Ed.), *Encyclopedia of psychology*. Oxford University Press.
- Tranel, D. (2000). Neural correlates of violent behavior. In J. Bogousslavsky & J. L. Cummings (Eds.), *Behavior and mood disorders in focal brain lesions* (pp. 399-418). Cambridge, UK: Cambridge University Press.
- Tranel, D. (2000). Non-conscious brain processing indexed by psychophysiological measures. In E. A. Mayer & C. Saper (Eds.), *Progress in brain research: The biological basis for mind body interactions* (Vol. 122, pp. 315-330). Amsterdam: Elsevier Science.
- Tranel, D. (2000). Phineas Gage. In P. Winn. (Ed.), *Dictionary of biological psychology* (pp. 512). London: Routledge.
- Tranel, D. (2000). Phrenology. In P. Winn (Ed.), *Dictionary of biological psychology* (pp. 512-513). London: Routledge.
- Tranel, D. (2000). Somatic marker hypothesis. In P. Winn (Ed.), *Dictionary of biological psychology* (pp. 513-514). London: Routledge.
- Tranel, D., & Damasio, A. R. (2000). Neuropsychology and behavioral neurology. In J. T. Cacioppo, L. G. Tassinary & G. G. Berntson (Eds.), *Handbook of psychophysiology* (pp. 119-141). Cambridge, MA: Cambridge University Press.
- Tranel, D., Bechara, A., & Damasio, A. R. (2000). Decision making and the somatic marker hypothesis. In M. S. Gazzaniga (Ed.), *The new cognitive neurosciences* (pp. 1047-1061). Cambridge, MA: The MIT Press.
- Tranel, D., Damasio, H., & Damasio, A. R. (2000). Amnesia caused by herpes simplex encephalitis, infarctions in basal forebrain, and anoxia/ischemia. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2nd ed., Vol. 2, pp. 85-110). (L. Cermak, Section Editor). Amsterdam: Elsevier Science.

1999

- Anderson, S. W., & Tranel, D. (1999). Agraphia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 45). Cambridge, MA: Birkhauser Boston. [also see Elsevier's Encyclopedia of Neuroscience on CD-ROM]

- Tranel, D. (1999). Agnosia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 43-45). Cambridge, MA: Birkhauser Boston. [also see Elsevier's Encyclopedia of Neuroscience on CD-ROM]
- Tranel, D. (1999). Alexia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 54-55). Cambridge, MA: Birkhauser Boston. [also see Elsevier's Encyclopedia of Neuroscience on CD-ROM]
- Tranel, D. (1999). Balint syndrome. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 183-184). Cambridge, MA: Birkhauser Boston. [also see Elsevier's Encyclopedia of Neuroscience on CD-ROM]
- Tranel, D. (1999). Prosopagnosia. In G. Adelman, & B. H. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 1703-1705). Cambridge, MA: Birkhauser Boston. [also see Elsevier's Encyclopedia of Neuroscience on CD-ROM]
- Tranel, D., & Anderson, S. (1999). Syndromes of aphasia. In F. Fabbro (Ed.), *Concise encyclopedia of language pathology* (pp. 305-319). Oxford, England: Elsevier Science Limited.

1998

- Damasio, A. R., Van Hoesen, G. W., & Tranel, D. (1998). Pathological correlates of amnesia and the anatomical basis of memory. In M. L. J. Apuzzo (Ed.), *Surgery of the third ventricle* (2nd ed., pp. 187-204). Baltimore: Williams & Wilkins.
- Tranel, D., & Damasio, A. R. (1998). Disorders of higher brain functions. In R. N. Rosenberg & D. E. Pleasure (Eds.), *Comprehensive neurology* (2nd ed., pp. 435-453). New York: John Wiley and Sons.
- Tranel, D., Damasio, H., & Damasio, A. R. (1998). The neural basis of lexical retrieval. In R. W. Parks, D. S. Levine & D. L. Long (Eds.), *Fundamentals of neural network modeling: Neuropsychology and cognitive neuroscience* (pp. 271-296). Cambridge, MA: MIT Press.
- Tranel, D., Grabowski, T. J., & Damasio, H. (1998). Behavioral neurology. In R. N. Rosenberg (Editor-in-Chief), *Atlas of Clinical Neurology* (pp. 259-287). Philadelphia: Butterworth-Heinemann/Current Medicine, Inc.

1997

- Tranel, D. (1997). Approach to the patient with memory impairment. In J. Biller (Ed.), *Practical neurology* (pp. 33-44). Philadelphia: Lippincott-Raven.
- Tranel, D. (1997). Disorders of color processing (perception, imagery, recognition, and naming). In T. E. Feinberg & M. J. Farah (Eds.), *Behavioral neurology and neuropsychology* (pp. 257-265). New York: McGraw Hill.
- Tranel, D. (1997). Functional neuroanatomy: Neuropsychological correlates of cortical and subcortical damage. In S. C. Yudofsky, & R. E. Hales (Eds.), *Textbook of neuropsychiatry* (3rd ed., pp. 77-118). Washington, D.C.: American Psychiatric Press.
- Tranel, D., Damasio, H., & Damasio, A. R. (1997). On the neurology of naming. In H. Goodglass & A. Wingfield (Eds.), *Anomia: Neuroanatomical and cognitive correlates* (pp. 65-90). New York: Academic Press.

1996

- Adolphs, R., Tranel, D., Bechara, A., Damasio, H., & Damasio, A. R. (1996). Neuropsychological approaches to reasoning and decision-making. In A. R. Damasio, H. Damasio, & Y. Christen (Eds.), *Neurobiology of decision-making* (pp. 157-179). New York: Springer-Verlag.
- Rizzo, M., & Tranel, D. (1996). Overview of head injury and postconcussive syndrome. In M. Rizzo & D. Tranel. (Eds.), *Head injury and postconcussive syndrome* (pp. 1-18). New York: Churchill Livingstone.
- Tranel, D. (1996). The Iowa-Benton school of neuropsychological assessment. In I. Grant, & K. M. Adams (Eds.), *Neuropsychological assessment of neuropsychiatric disorders* (2nd ed., pp. 81-101). New York: Oxford University Press.
- Tranel, D., & Damasio, A. R. (1996). The agnosias and apraxias. In W. G. Bradley, R. B. Daroff, G. M. Fenichel & C. D. Marsden (Eds.), *Neurology in clinical practice* (2nd ed., pp. 119-129) Stoneham, MA: Butterworth Publishers.

1995

- Damasio, A. R., Damasio, H., Tranel, D., & Brandt, J. (1995). Neural regionalization of knowledge access: Preliminary evidence. *The Association for Research in Nervous and Mental Disease* (New York, December, 1995).
- Tranel, D. (1995). Higher brain functions. In M. P. Conn (Ed.), *Neuroscience in medicine* (pp. 555-580). Philadelphia: J. B. Lippincott.
- Tranel, D., & Damasio, A. R. (1995). Neurobiological foundations of human memory. In A. D. Baddeley, B. A. Wilson, & F. N. Watts (Eds.), *Handbook of memory disorders* (pp. 27-50). New York: John Wiley and Sons Ltd.

1994

- Tranel, D. (1994). Neural substrates of memory. In V. S. Ramachandran (Ed.), *Encyclopedia of human behavior* (Vol. 3, pp. 149-164). New York: Academic Press.
- Tranel, D. (1994). "Acquired sociopathy": The development of sociopathic behavior following focal brain damage. In D. C. Fowles, P. Sutker, & S. H. Goodman (Eds.), *Progress in experimental personality and psychopathology research* (Vol. 17, pp. 285-311). New York: Springer.
- Tranel, D. (1994). Functional neuroanatomy from a neuropsychological perspective. In S. C. Yudofsky, & R. E. Hales (Eds.), *Synopsis of neuropsychiatry* (pp. 49-74). Washington, D.C.: American Psychiatric Press.
- Tranel, D., Anderson, S. W., & Benton, A. L. (1994). Development of the concept of "executive function" and its relationship to the frontal lobes. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (Vol. 9, pp. 125-148). Amsterdam: Elsevier.

1993

- Benton, A. L., & Tranel, D. (1993). Visuo perceptual, visuospatial, and visuoconstructive disorders. In K. M. Heilman, & E. Valenstein (Eds.), *Clinical neuropsychology* (3rd ed., pp. 165-213). New York: Oxford University Press.
- Damasio, A. R., Tranel, D., & Damasio, H. (1993). Update on memory disorders. In P. Andersen, O. Hvalby, O. Paulsen, & B. Hokfelt (Eds.), *Memory concepts* (pp. 379-380) Amsterdam: Elsevier.
- Tranel, D. (1993). The role of neuropsychology in the diagnosis and management of cerebrovascular disease. In H. P. Adams, Jr. (Ed.), *Handbook of cerebrovascular diseases* (pp. 613-636). New York: Marcel Dekker.
- Tranel, D., & Damasio, A. R. (1993). Prosopagnosia. In G. Adelman, & B. Smith (Eds.), *Neuroscience year: The yearbook of the encyclopedia of neuroscience* (pp. 134-135). Cambridge, MA: Birkhauser Boston.

1992

- Damasio, A. R., Tranel, D., & Eslinger, P. J. (1992). The agnosias. In A. K. Asbury, G. M. McKhann, & W. I. McDonald (Eds.), *Diseases of the nervous system* (2nd ed., pp. 741-750). Philadelphia: W. B. Saunders Co.
- Graff-Radford, N. R., Tranel, D., Van Hoesen, G. W., & Brandt, J. P. (1992). Diencephalic amnesia. In G. Vallar, S. F. Cappa, & C. -W. Wallesch (Eds.), *Neuropsychological disorders associated with subcortical lesions* (pp. 143-168). New York: Oxford University Press.
- Tranel, D. (1992). Neuropsychological assessment. In J. Biller & R. Kathol (Eds.), *Psychiatric clinics of North America: The interface of psychiatry and neurology* (pp. 283-299). Philadelphia: W. B. Saunders.
- Tranel, D. (1992). Functional neuroanatomy: Neuropsychological correlates of cortical and subcortical damage. In S. C. Yudofsky, & R. E. Hales (Eds.), *Textbook of neuropsychiatry* (2nd ed., pp. 57-88). Washington, D.C.: American Psychiatric Press.

1991

- Damasio, A. R., & Tranel, D. (1991). Disorders of recognition. In W. G. Bradley, R. B. Daroff, G. M. Fenichel, & C. D. Marsden (Eds.), *Neurology in clinical practice* (Vol. 1, pp. 73-80). Stoneham, MA: Butterworth Publishers.
- Damasio, A. R., Tranel, D., & Damasio, H. (1991). Somatic markers and the guidance of behavior: Theory and preliminary testing. In H. S. Levin, H. M. Eisenberg, & A. Benton (Eds.), *Frontal lobe function and dysfunction* (pp. 217-229). New York: Oxford University Press.
- Damasio, A. R., & Tranel, D. (1991). Disorders of higher brain function. In R. N. Rosenberg (Ed.), *Comprehensive neurology* (pp. 639-657). New York: Raven Press.
- Tranel, D. (1991). Assessing impairments of intellect and memory. In W. G. Bradley, R. B. Daroff, G. M. Fenichel, & C. D. Marsden (Eds.), *Neurology in clinical practice* (Vol. 1, pp. 123-128). Stoneham, MA: Butterworth Publishers.

1990

Damasio, A. R., Damasio, H., & Tranel, D. (1990). Impairments of visual recognition as clues to the processes of categorization and memory. In G. M. Edelman, W. E. Gall, & W. M. Cowan (Eds.), *Signal and sense: Local and global order in perceptual maps* (pp. 451-473). New York: Wiley-Liss.

1989

Damasio, A. R., Tranel, D., & Damasio, H. (1989). Amnesia caused by herpes simplex encephalitis, infarctions in basal forebrain, Alzheimer's disease, and anoxia. In F. Boller, & J. Grafman (Eds.), *Handbook of neuropsychology* (Vol. 3, pp. 149-166). Amsterdam: Elsevier.

Damasio, A. R., Tranel, D., & Damasio, H. (1989). Disorders of visual recognition. In F. Boller, & J. Grafman (Eds.), *Handbook of neuropsychology* (Vol. 2, pp. 317-332). Amsterdam: Elsevier.

Damasio, H., Tranel, D., Spradling, J., & Alliger, R. (1989). Aphasia in men and women. In A. Galaburda (Ed.), *From neurons to reading* (pp. 307-330). Cambridge, MA: MIT Press.

Graff-Radford, N., Godersky, J., Tranel, D., Eslinger P. J., & Jones, M. P. (1989). Neuropsychological testing in normal pressure hydrocephalus. In J. T. Hoff, & A. L. Betz (Eds.), *Intracranial pressure VII* (pp. 422-424). Berlin: Springer-Verlag.

1986

Damasio, A. R., Damasio, H., & Tranel, D. (1986). Prosopagnosia: Anatomic and physiologic aspects. In H. Ellis, M. Jeeves, F. Newcombe, & A. Young (Eds.), *Aspects of face processing*. NATO ASI Series, (pp. 268-278). Boston, MA: Martinus Nijhoff Publishers.

C. Books

Lezak, M. D., Howieson, D., Bigler, E., & Tranel, D. (2012). *Neuropsychological assessment* (5th ed.). New York: Oxford University Press.

Rizzo, M., & Tranel, D. (Eds.) (1996). *Head injury and postconcussive syndrome*. New York: Churchill Livingstone.

D. Manuscripts submitted (or in final stages of preparation)

Asp, E.W., Andreasen, N.C., Warner, K.A., & Tranel, D. Steel trap minds: Neuropsychological implications for religious doubting and collective religious beliefs. *Religion, Brain, and Behavior*, (in preparation)

Asp, E.W., Warner, K.A., Andreasen, N.C., Bijanki, K.R., Denburg, N.L., & Tranel, D. Matters of fiction: Prefrontal-parietal network critical for the falsification of novel information. (in preparation)

Barrash, J., Abel, T.J., Okerstrom, K.L., Bruss, J., Manzel, K., Howard, M., & Tranel, D. Disturbances of personality and adaptive functioning following resection of meningiomas. *Journal of Neurosurgery*, (in preparation)

- Barrash, J., Stuss, D., Aksan, N., Anderson, S.W., Jones, R.D., Manzel, K., & Tranel, D. Subtypes of acquired personality disturbance in patients with focal brain damage: Cluster analysis of the Iowa Scales of Personality Change. (in preparation)
- Beadle, J.N., Paradiso, S., & Tranel, D. Empathy requires the ventromedial prefrontal cortex. (in preparation)
- Belfi, A.M., Karlan, B., & Tranel, D. Damage to the medial prefrontal cortex impairs music-evoked autobiographical memories. (in preparation)
- Brunette (Ward), A.M., Calamia, M., Black, J., & Tranel, D. Is episodic future thinking important for instrumental activities of daily living in neurological patients? *The Clinical Neuropsychologist*, (submitted)
- Buckwalter, J., Ward, A., Tranel, D., & Tourtellotte, W.G. Entorhinal cortex feedback in Alzheimer's disease. *Journal of Neuropathology and Experimental Neurology*, (submitted)
- Calamia, M., Markon, K., Sutterer, M., & Tranel, D. Examining neural correlates of psychopathology using a lesion-based approach. *Cerebral Cortex*, (submitted)
- Cameron, C.D., Reber, J., Spring, V.L., & Tranel, D. vmPFC lesions impair moral intuitions: A multimodal modeling approach. *Social, Cognitive and Affective Neuroscience*, (submitted)
- Feinstein, J.S., Kennedy, D.P., Tyszka, M., Tranel, D., Adolphs, R., & Hurlemann, R. Preserved islands of fear following focal amygdala damage. *Neuropsychologia*, (invited submission to special issue on The Neural Basis of Emotion)
- Gläscher, J., Adolphs, R., & Tranel, D. Model-based lesion mapping of the Wisconsin Card Sorting Test. *Proceedings of the National Academy of Sciences*, (submitted)
- Hanley, J., Warren, D.E., Glass, N., Tranel, D., Karam, M., & Buckwalter, J. Visual interpretation of plain radiographs in orthopaedics using eye-tracking technology. *Clinical Orthopaedics and Related Research*, (submitted)
- Kamm, J., Boles Ponto, L.L., Manzel, K., Nagahama, N., Abel, T., Gaasedelen, O.J., & Tranel, D. Temporal lobe asymmetry in FDG uptake in PET predicts neuropsychological outcomes after temporal lobectomy. (in preparation)
- King, M., & Tranel, D. Neural correlates of improvements in personality and behavior following a neurological event. *Neuropsychologia*, (invited submission to special issue on The Neural Basis of Emotion)
- Koscik, T.R., Azad, F., Chowdhury, A., Cunningham, W.A., Anderson, A.K., & Tranel, D. Transitive inference of social hierarchy: Ventromedial prefrontal damage enhances transitive reasoning and anterior temporal damage disrupts learning and inference. *Neuropsychologia*, (submitted)
- Koscik, T.R., Chowdhury, A., Azad, F., Tranel, D., Cunningham, W.A., & Anderson, A.K. Social hierarchy affects the use of transitive inference. (in preparation)
- Moreno, G.L., Koscik, T., Tranel, D., & Denburg, N.L. Age-related differences in decision-making under ambiguity but not risk. *Journal of Behavioral Decision Making*, (major revision under review)

- Paradiso, S., Brown, W.S., Porcerelli, J.H., Tranel, D., Adolphs, R., & Paul, L.K. Integration between cerebral hemispheres and the stages of defense mechanisms. *Comprehensive Psychiatry*, (submitted)
- Philippi, C.L., Floyd, T., Murray, K., Rudrauf, D., & Tranel, D. Altered mind wandering after damage to hubs of the default mode network. (in preparation)
- Ramchandran, K., Okerstrom, K., Denburg, N., Bechara, A., & Tranel, D. Emotional intelligence versus cognitive intelligence: A neural perspective. (in preparation)
- Spunt, R., Kovach, C., Feinstein, J., Tranel, D., & Adolphs, R. Lesions in the ventromedial prefrontal cortex disrupt the cortical network for theory of mind. *Nature Neuroscience*, (in preparation)
- Sutterer, M.J., & Tranel, D. Neuropsychology and cortical connectivity: Some highlights from the quarter-century since fMRI. *Neuropsychology*, (submitted by invitation to special issue)
- Vaidya, J.G., Feinstein, J.S., Tranel, D., & Watson, D. Personality stability and self-other agreement in patients with anterograde amnesia. *Journal of Research in Personality*, (submitted)
- Wang, A., Tranel, D., & Denburg, N.L. The cognitive effects of music: Working memory is enhanced in healthy older adults after listening to music. *Memory and Cognition*, (submitted)
- Warren, D.E., Sutterer, M.J., Bruss, J., Abel, T., Jones, A., Kawasaki, H., Voss, M., Cassell, M., Howard, M.A., & Tranel, D. BOLD is thicker than white matter: Surgically disconnected temporal pole exhibits resting functional connectivity with remote brain regions. *Nature Neuroscience*, (submitted)
- Zeman, A., Byrck, M., Tallis, P., Vossel, K., & Tranel, D. Touching the void: First and third person perspectives in two cases of autobiographical amnesia linked to epilepsy. *Neuropsychologia*, (revision in preparation)