CURRICULUM VITAE (4/2011)

LESLIE G. UNGERLEIDER, Ph.D.

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Citizenship: U.S.A.

Education:

1966 - B.A. Magna cum laude, S.U.N.Y. at Binghamton, New York
Major: Psychology
1970 - Ph.D., New York University, New York
Department - Experimental Psychology

Employment:

2008-	NIH Distinguished Investigator National Institutes of Health, Bethesda, MD
1995-	Chief, Laboratory of Brain and Cognition, National Institute of Mental Health, Bethesda, Maryland
1992-1995	Chief, Section on Neurocircuitry, Lab of Neuropsychology National Institute of Mental Health, Bethesda, Maryland
1985-1992	Research Psychologist (tenured), Lab of Neuropsychology National Institute of Mental Health, Bethesda, Maryland
1980-1985	Senior Staff Fellow, Lab of Neuropsychology National Institute of Mental Health, Bethesda, Maryland
1978-1980	Staff Fellow, Laboratory of Sensorimotor Research National Eye Institute, NIH, Bethesda, Maryland
1975-1978	Postdoctoral Fellow, Laboratory of Neuropsychology National Institute of Mental Health, Bethesda, Maryland
1972-1975	Postdoctoral Fellow, Department of Psychology Stanford University, Stanford, California

Honors and Awards:

New York State Regents Scholarship (1962-66)
National Institutes of Health Predoctoral Traineeship (1966-68)
National Institutes of Health Predoctoral Fellowship (1968-70)
New York University Founders Day Award (1970)
Psi Chi Honor Society of Psychology (1972)
National Institutes of Health Postdoctoral Fellowship (1975-78)
The Director's Award for Significant Achievement, NIMH (1990)
The Administrator's Award for Meritorious Achievement, ADAMHA (1992)
Krieg Cortical Discoverer Prize, Cajal Club (1995)
PHS Superior Service Award (1995)
Justine and Ives Sergent Award in Cognitive Neuroscience (1999)
American Academy of Arts and Sciences (2000)
National Academy of Sciences (2000)
Institute of Medicine of the National Academy of Sciences (2001)
Women in Neuroscience Mika Salpeter Lifetime Achievement Award (2001)

Associate, Neuroscience Research Program, La Jolla (2002)
Outstanding Mentor Award, NIMH (2003)
NIH Award for Mentoring (2004)
The George A. Miller Award, Cognitive Neuroscience Society (2005)
The William James Fellow Award, Association for Psychological Science (2010)

Named Lectures:

The G. Burroughs Mider Lecture, NIH, Bethesda (1998)
The Donders Lecture, Max-Planck Institute, Nijmegen, The Netherlands ((1998)
The Grass Foundation Lecture, Society for Neuroscience, Miami (1999)
The Birch Lecture, International Neuropsychology Society, Chicago (2001)
The Trotter Lecture, Washington University School of Medicine, St. Louis (2001)
The Sprague Lecture, University of Pennsylvania, Institute of Neurological Sciences, Philadephia (2001)
The Ripple Lecture, Rider University, Trenton, NJ (2002)
The Wolfgang Kohler Lecture, Dartmouth University, Hanover, NH (2005)
The George A. Miller Lecture, Cognitive Neuroscience Society, NYC (2005)
The William James Fellow Lecture, Association for Psychological Science (2010)

Societies:

Society for Neuroscience
American Association for the Advancement of Science (Fellow, 1992)
American Psychological Association (Fellow, 1985)
Association for Psychological Science (Fellow, 1990)
Society for Experimental Psychology (Elected, 1997)
International Neuropsychological Symposium (Elected, 1981)
Association for Women in Science
Cognitive Neuroscience Society
Organization for Human Brain Mapping
Society of Biological Psychiatry
Vision Science Society

Editorial Boards:

PLoS (2006-)
Proceedings of the National Academy of Sciences USA (2008-)
Elsevier Labsuite Brain Navigator (2008-)
Journal of Cognitive Neuroscience (2005-)
Neuroinformatics (2002-)
Cerebral Cortex (1998-)
Faculty of 1000, Section Head, Cognitive Neuroscience (1998-)
Biological Psychiatry, (1997-)
Cognitive Brain Research (2002-2005)
Journal of Neurophysiology (1999-2004)
Journal of Neuroscience (1996-2003)
NeuroImage (1996-2003)
Human Brain Mapping (1993- 2005)
Neuropsychologia (1990- 2005)
Journal of Comparative Neurology (1994-1997)
Visual Neuroscience (1990-1992)

Service Activities:

<u>Outside NIH</u>

Scientific Council, NARSAD (1998-)

Advisory Board, Brain Science Institute, Johns Hopkins University, Baltimore (2010-2013)
Advisory Board, Brown Insitute for Brain Science, Brown University, Providence (2010-2015)
Advisory Board, Washington University IGERT Grant, St. Louis (2006-2010)
Advisory Board, Center for Behavioral Neuroscience, Georgia State University (lead of eight Institutions), Atlanta (2003-2009).
Advisory Board, Program in Neuroscience, University of California, Berkeley (2009)
Advisory Board, The Rotman Research Institute, University of Toronto, Canada (2008)
Advisory Board, Center for the Neural Basis of Cognition, Pittsburgh (2004-2005)
Advisory Board, FMRI Program Project Grant, Medical College of Wisconsin (1997-2002)
Advisory Board, Autism Program Project Grant, University of Texas at Houston (1999-2004)
Advisory Board (Fachbeirat), Max-Planck Institute, Tuebingen, Germany (2000-2006)
Advisory Board, Human BrainMap Database (1993-1995)
Member, Selection Committee, Goldman-Rakic Award, NARSAD (2006-)
Member, Selection Committee, Edward M. Scolnick Prize in Neuroscience (2003-2006)
Member, Selection Committee, Early Career Award in Behavioral/Cognitive Neuroscience, American Psychological Association (2004-2005)
Member, Troland Award Selection Committee, National Academy of Sciences (2001-2004, 2006, 2008-2009)
Member, Committee on Scientific Programs, National Academy of Sciences (2002-2008)
Member, Nominating Committee, National Academy of Sciences (2003)
Member, Membership Committee, Institute of Medicine (2002-2006)
Chair, Section 3, Membership Committee, Institute of Medicine (2004-2006)
Member, Women in Neuroscience Awards Committee (2002)
Member, Krieg Cortical Kudos Awards Committee (2000-2002)
Member, Society for Neuroscience Committee on Committees (2006-2010)
Chair, Society for Neuroscience Science Educator Award Committee (2008-2010)
Member, Society for Neuroscience Chapters Junior Faculty Next Generation Award Committee (2008-2010)
Member, Society for Neuroscience Chapters Predoctoral/Postdoctoral Next Generation Award Committee (2008-2010)
Member, Society for Neuroscience Young Investigator Award Committee (2002-2003)
Member, Society for Neuroscience Governmental and Public Affairs Committee (1998-2002)
Member, Council, Society for Neuroscience (1996-2000)
Member, Society for Neuroscience Program Committee (1990-1993; Chair 1994-1995)
Member, Fellowship Committee, HFSPO (1999-2002; Co-Chair in 2002)
Chair, AAAS Section on Neuroscience (2000-2001)
Member, Council, Organization for Human Brain Mapping (1997-2000)
Chair, Council, Organization for Human Brain Mapping (1998-1999)
Chair, Program Committee, 2nd International Conference on Functional Mapping of the Human Brain (1995-1996)
Member, Program Committee, Cognitive Neuroscience Society (1995-1998)
North American Rep., International Neuropsychological Symposium (1990-1993)

Within NIH

Member, NIH Senior Biomedical Research Service (SBRS) Policy Board (1997-)
Member, NIMH-IRP Scientist Promotion and Tenure Review Committee (1988-1990; 1993-1996; 2003-)
Member, NINDS-IRP Scientist Promotion and Tenure Review Committee (2006-)
Member, Scientific Director Search Committee, NIMH-IRP (2004-2006, 2008)
Chair, Chief, Laboratory of Neuropsychology Search Committee, NIMH-IRP (2005-2006)

Chair, Tenure/Tenure-Track, Laboratory of Neuropsychology Search Committee, NIMH-IRP (2007-2008)
Member, Tenure-Track In-Vivo Neural Function Search Committee, NIAAA-IRP (2005)
Member, Tenure-Track Cognitive Neuroscientist Search Committee, NIMH-IRP (2003-2005)
Member, Tenure-Track Neuroimaging Search Committee, NINDS-IRP (2002-2003)
Member, Tenure-Track Monkey fMRI Search Committee, NIMH-IRP (2002-2003)
Member, Tenure-Track Neuroimaging of Emotion Search Committee, NIMH-IRP (2000-2001)
Member, Chair of Radiology Search Committee, Clinical Center, NIH (1999-2000)
Member, Deputy Director Search Committee, NIMH-IRP (1998)
Chair, Tenure-Track Neuroscientist Search Committee, NIAAA-IRP (1997-1999)
Member, Tenure-Track MRI Physicist Search Committee, NHLBI-IRP (1997-1999)
Member, Animal Care and Use Committee, NIMH-IRP (1997)
Member, Scientific Director Search Committee, NIMH-IRP (1996-1997)
Member, Howard Hughes Institute-NIH Research Scholars Program Committee (1995- 1997)
Chair, NIMH-IRP Scientist Promotion and Tenure Review Committee (1994-1995)
Member, NIH-wide Central Tenure Review Committee (1994-1995)
Member, NIMH Equal Employment Opportunity Council (1981-1987)
Member, NIMH-NINCDS Assembly of Scientists Council (1982-1984)

Grant Support:

US-Israel Binational Science Foundation. "Dynamics of Functional Brian Networks: Combined MRI/MEG Study". Co-PIs: T. Hendler, N. Intrator, E. Ben-Jacob, and L.G. Ungerleider. (2006-2009) $40,000/yr.

Invited Colloquia and Symposia (since 1995 only):

1995

FMRI Workshop: How to interpret it, how to do it, San Francisco
International Congress of Learning and Plasticity, Granada
Texas A & M University, Dept. Cell Biology and Anatomy
MIT, McDonnell-Pew Seminar Series, Boston
Beth Israel Hospital, Dept. Neurology, Boston
Massachusetts General Hospital, Dept. Neurology, Boston
University of Laval, Dept. Psychology, Quebec City
Brown University, Dept. Psychology, Providence, RI
International Conference on Restoring Brain Function, Univ. Illinois, Chicago

1996

University of Texas, Dept. Anatomy and Neurobiology, Houston
Keynote Lecture, International Neuropsychological Society, Chicago
University of Pennsylvania, Dept. Psychology, Philadelphia
University of Western Ontario, Center for Neuroscience, London, Canada
Symposium on Imaging and Memory, Cognitive Neuroscience Society, San Francisco
Symposium on Coding in Dorsal and Ventral Streams, HFSPO, Strasbourg
Symposium on Cognitive and Neuroscience Approaches to Attention, XXVI International Congress of Psychology, Montreal
Symposium on Functional Magnetic Resonance Imaging and Spectroscopy, John P. Robards Research Insstitute, London, Ontario
Symposium on Learning and Memory, Cold Spring Harbor, New York

Keynote Lecture, Opening of Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh
Princeton University, Dept. Psychology, New Jersey
University of Maryland, Dept. Pharmacol. & Exp. Therapeutics, Baltimore

1997

Howard Hughes Medical Institute-NIH Research Scholars Program, Bethesda
New York University, Center for Neural Science, NYC
Conference on Memory Disorders: Advances in Science and Clinical Practice, Rotman Research Institute, University of Toronto
Center for Molecular and Behavioral Neuroscience, Rutgers Univ., Newark
Medical College of Wisconsin, Biophysics Research Institute, Milwaukee
Neuroimaging of Human Brain Function, National Academy of Sciences Colloquium, Irvine
Keynote Lecture, American Psychological Association, Division 40, Chicago
Symposium on Neurobiology of Perception and Cognition: Studying the Mind's Eye, 150th Anniversary of the City College of New York
XXXIII International Congress of the Physiological Sciences, St. Petersburg, Russia
The Association for Research in Nervous and Mental Disease (ARNMD) Symposium, The Conscious Brain: Normal and Abnormal, New York

1998

Course Lecturer, International Neuropsychological Society, 26th Annual Meeting, Hawaii
G. Burroughs Mider Lecture, NIH, Bethesda
Boston University, Center for Computational Neuroscience
Yale University, Section on Neurobiology, New Haven
Stanford University, Department of Psychology, CA
Donders Lecture, Max Planck Institute, Nijmegen, The Netherlands
Keynote Speaker, Opening Conference of the Institute of Cognitive Sciences, Lyon, France
First International Conference on Functional Imaging in Neurology and Psychiatry, Athens, Greece
Plenary Lecture, 21st Annual Meeting of the Japan Neurosci. Society, Tokyo
Grass Foundation Visiting Lecture, Emory University, Atlanta

1999

Dean's Lecture Series, Mount Sinai School of Medicine, NYC
Brain Awareness Week Symposium on Neuroimaging, NIH, Bethesda
Institute for Neuroscience, Northwestern University, Chicago
Keynote Speaker, Dean's Day, New York University, NYC
Department of Neuroscience, Case Western Medical School, Cleveland
Vision Science Research Center, University of Alabama, Birmingham
Symposium on Memory, Institute of Medicine, Washington, D.C.
Keynote Speaker, European Brain and Behavior Society, Rome
Grass Foundation Lecture, Society for Neuroscience Annual Meeting, Miami
NINDS Workshop on Adaptive Learning: Interventions for Verbal and Motor Deficits, Rockville, MD.
Conference on Applications of fMRI and MEG Methods in Mental Illness Research, University of New Mexico, Albuquerque

2000

Cognitive Science Program, Michigan State University, East Lansing, MI
Department of Neuroscience, University of Pittsburgh, PA

Mind, Brain & Behavior Distinguished Lecture Series, Duke Univ., Durham
Center for Developmental Cognitive Neuroscience, Eunice Kennedy Shriver Center, Waltham, MA
Keynote Lecture, XXVII International Congress of Psychology, Stockholm
Keynote Lecture (Retrospective of the Meeting), OHBM, San Antonio, TX
Keynote Lecture, American Psychological Association, Washington, D.C.
Keynote Lecture, Inauguration of the Brain Imaging Center, UC Berkeley
Neuroscience Seminar Series, Sackler Institute (Cornell Medical School) & Rockefeller University, NYC

2001

The Birch Lecture, International Neuropsychology Society, Chicago
Department of Psychology, University of Washington, Seattle
Department of Neuroscience, University of California at San Diego, La Jolla
Symposium on Learning and Plasticity in Adult Brains, AAAS, San Francisco
Department of Radiology, Massachusetts General Hospital, Boston
International Neuropsychological Symposium, Grado, Italy
The Karolinska Institute, Nobel Speaker's Series, Stockholm, Sweden
9th Annual Provost's Neuroscience Symposium, University Southern California, Los Angeles
Symposium on Interactions of Brain Systems in Memory Formation, Seventh Conference on the Neurobiology of Learning and Memory, Irvine
The Trotter Lecture, Washington University School of Medicine, St. Louis
MIT-Riken Symposium: From Molecules to Mind, Boston
Boston University, Department of Psychology, Boston

2002

Presidential Symposium in Neuroscience, Tulane University, New Orleans
Department of Psychology, University of Michigan, Ann Arbor
NIMH Senior Investigator's Seminar Series, NIH, Bethesda
Cognitive Neuroscience Seminar Series, Columbia University, NYC
Department of Psychology, Vassar College, Poughkeepsie, NY
Satellite Symposium on Neural Mechanisms of Executive Control in Cognition, Cognitive Neuroscience Society Meeting, San Francisco
The Sprague Lecture, University of Pennsylvania, Institute of Neurological Sciences Annual Retreat, Philadelphia
Symposium on From Sensory Perception to Emotion, Bremen, Germany
Keynote, Inauguration of the Wellcome Dept. of Neuroecology, Newcastle, UK
Plenary Lecture, FENS 2002, Paris
Keynote Lecture, Opening of Donders Imaging Center, Nijmegen, Netherlands
Keynote Lecture, Alan Cowey Festschrift, Oxford, UK
The Ripple Lecture, Rider University, Trenton, NJ
Symposium on Cortical Mechanisms in Executive Control of Behavior, Society for Neuroscience Meeting, Orlando, FL

2003

Neuroscience Research Program Associates, Neuroscience Institute, La Jolla
Grand Rounds, Columbia University, NYC
Session on Higher Cortical Function, Summer Institute in Cognitive Neuroscience, Tahoe
Symposium on Neurons, Networks and Behavior, New York University, NYC
Symposium on Attention, Psychonomic Society, Vancouver
Department of Cognitive and Brain Sciences, MIT, Boston

2004

Children's Hospital of Philadelphia, University of Pennsylvania, Philadelphia
Department of Brain and Cognitive Sciences, Southern Illinois University, Carbondale
Department of Cognitive Science, University of Buffalo, Buffalo
Symposium on Relating Attention and Awareness: Neural, Cognitive, and Philosophical Perspectives; Satellite of the Cognitive Neuroscience Society Meeting, San Francisco.
Keynote Speaker, 3rd International Symposium on Cognitive Neuroscience, Hong Kong
Keynote Speaker, 26th International Symposium on Functional Neuroimaging: Methods and Applications, CRSN, University of Montreal, Canada
Department of Cognitive Science, University of California, San Diego
Symposium on Functional Brain Imaging of Form and Motion Perception, ECVP, Budapest
Keynote Speaker, Summer School, Rudolf Magnus Institute of Neuroscience, Utrecht
Frontiers of Neuroscience Lecture, Emory University, Atlanta
Key Lab of Cognitive Science, Inst. Biophysics, Chinese Academy of Sciences, Beijing
Department of Psychology, Vanderbilt University Vision Research Center, Nashville

2005

Wolfgang Kohler Lecture, Dartmouth College, Hanover, NH
George A. Miller Lecture, Cognitive Neuroscience Society, New York City
Berlin Neuroimaging Center, Department of Neurology, Charite Hospital, Berlin
Center for Advanced Imaging, Magdeburg, Germany
Brain Research Institute, University of Zurich, Switzerland
Ninth International Conference on Cognitive and Neural Systems, Boston University, Boston
Invited Speaker, International Society for Behavioral Neuroscience, St. Kitts
Symposium on Visual Areas: Form and Function, OSA Vision Meeting, University of Arizona, Tucson
Keynote Speaker, Neuroscience Day, College of William and Mary, Williamsburg, VA
Symposium on Prefrontal Cortex and Flexibility, ACNP, Hawaii.

2006

Keynote Speaker, European Workshop on Cognitive Neuropsychology, Bressanone, Italy
Invited Speaker, 3rd Computational and Systems Neuroscience Meeting, Salt Lake City
Keynote Speaker, Opening of the Brain and Body Centre, University of Nottingham, UK
Department of Neuroscience, University of California, Davis
Speaker, 9th Symposium on Developmental Approaches to Psychopathology, Stanford University, Stanford, CA
Guest Lecturer, Pre-doctoral Research Festival, NIMH, Bethesda, MD
Keynote Speaker, Frontiers in Neuroimaging Symposium, University of Alabama at Birmingham, AL
CELEST Distinguished Lecturer, Center for Computational Neural Science, Boston University, MA

2007

Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark, NJ
Department of Psychology, George Mason University, VA
Participant, JS McDonnell Meeting on Vision and Rehabilitation, Tarrytown, NY
Keynote Speaker, American Psychological Society, Washington, DC
Neuroimaging Research Branch, NIDA, NIH, Baltimore, MD
Symposium Organizer on Maps in IT Cortex, European Conference on Visual Perception, Arezzo, Italy
Special Lecture, Society for Neuroscience, San Diego, CA
Keynote Speaker, Festschrift in honor of Giovanni Berlucchi, Pavia, Italy

2008

Annual Cognitive, Computational and Systems Neuroscience Invited Lecture, Washington University, St. Louis, MO
Princeton University, Department of Psychology, Princeton, NJ
Boston University Medical School, Dept. Pharmacology & Experimental Therapeutics, Boston, MA
Center for Visual Science 26th Symposium on Blurring the Borders Between Vision, Cognition, and Behavior, University of Rochester, NY
Keynote Speaker, 4th Annual Israel Human Brain Mapping Meeting, Tel Aviv, Israel

2009

University of California, San Diego, Neuroscience Graduate Program, La Jolla, CA
University of California, Berkeley, Helen Willis Neuroscience Institute, Berkeley, CA
Yale University, Department of Diagnostic Radiology, New Haven, CT
Pittsburgh University, Department of Neuroscience, Pittsburgh, PA
SUNY Downstate Medical School. Dept. Physiology & Pharmacology, Brooklyn, NY

2010

Fourth Annual Salk Institute and Fondation IPSEN Symposium on Biological Complexity, La Jolla, CA
NSF Conference on Neurocognitive Networks, Florida Atlantic University, Boca Raton, FL
Keynote Speaker, Willian James Fellow Award, Association for Psychological Science, Boston, MA
Ohio State University, Hunt-Curtis Frontiers in Neuroscience Seminar Series, Columbus, OH (declined)
MIT Colloquium on the Brain and Cognition, McGovern Institute, MIT, Boston, MA (declined)

2011

Surgical Neurology Branch, NINDS, NIH, Bethesda, MD
MIT Colloquium on the Brain and Cognition, McGovern Institute, MIT, Boston, MA

Current Positions of Former Postdoctoral Fellows (years of training at NIMH):

Driss Boussaoud, Ph.D., Director and Senior Scientist, Mediterranean Institute of Cognitive Neuroscience (INCM), affiliated with CNRS and the Mediterranean University of Marseille, France (1986-1989).
Susan M. Courtney, Ph.D., Professor of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD (1993-1998).
Peter De Weerd, Ph.D., Associate Professor of Psychology, University of Maastricht, The Netherlands (1991-1998).
Claudia Distler, Ph.D., Privatdozent, Dept. General Zoology and Neurobiology, Ruhr-University Bochum, Germany (1989-1990).
Stacia Friedman-Hill, Ph.D., Program Chief, Mechanisms of Cognitive Dysfunction Program, Division of Developmental Translational Research, National Institute of Mental Health, Rockville, MD (2003-2007).
Hauke R. Heekeren, M.D., Ph.D., Professor, Freie Universitaet Berlin, and PI, Max-Planck-Institute for Human Development, Berlin, Germany (2001-2003).
Alumit Ishai, Ph.D., Professor of Neuroscience, Brain Research Institute, University of Zurich, Switzerland (1996-2003).

Peter Jezzard, Ph.D., Head of MR Physics, FMRIB Centre, Oxford University, Oxford, U.K. (1995-1997).

Yang Jiang, Ph.D., Associate Professor of Psychology, University of Kentucky, Louisville, KY (1997-2001).

Avi Karni, M.D., Ph.D., Associate Professor of Psychology, University of Haifa, Israel (1992-1996).

Sabine Kastner, M.D., Ph.D., Professor of Psychology, Princeton University, Princeton, NJ (1996-2000).

James C. Patterson III, M.D., Ph.D., Associate Professor of Psychiatry and Director of PET Imaging, Louisiana State University, LA (1999-2000).

Luiz Pessoa, Ph.D., Associate Professor of Psychology, Indiana University, Bloomington, IN (1999-2003).

Andrew Rossi, Ph.D., Chief, Executive Functions Program, Division of Neuroscience and Basic Behavioral Science, National Institute of Mental Health, Rockville, MD (1996-2003).

Robert W. Van Boven, D.D.S,, M.D., Medical Director, Central Texas V.A. Functional Neuroimaging Research Center, Austen, TX (2000-2003).

Maree J. Webster, Ph.D., Director, Stanley Laboratory of Brain Research, Stanley Medical Research Institute, Bethesda, MD (1988-1995).

BIBLIOGRAPHY

***Peer-reviewed Journal Articles**:*

1. **Ungerleider, L. G.** and Coons, E. E.: A behavioral measure of homosynaptic and heterosynaptic temporal summation in the self-stimulation system of rats. Science 169: 785-787, 1970.

2. Coons, E. E., Smith, N. S., and **Ungerleider, L. G.:** Uses of double-pulse stimulation to infer refractoriness, summation, convergence, and transmitter characteristics of hypothalamic reward systems. J. Comp. Physiol. Psychol. 90: 317-342, 1976.

3. **Ungerleider, L. G.,** Ganz, L., and Pribram, K. H.: Size constancy in rhesus monkeys: Effects of pulvinar, prestriate, and inferotemporal lesions. Exp. Brain Res. 27: 251-269, 1977.

4. **Ungerleider, L. G**. and Pribram, K. H.: Inferotemporal versus combined pulvinar-prestriate lesions in the rhesus monkey: Effects on color, object, and pattern discrimination. Neuropsychologia 15: 481-498, 1977.

5. **Ungerleider, L. G**. and Brody, B. A.: Extrapersonal spatial orientation: The role of posterior parietalanterior frontal, and inferotemporal cortex. Exp. Neurol. 56: 265-280, 1977.

6. Brody, B. A., **Ungerleider, L. G.,** and Pribram, K. H.: Effects of instability of the visual display on pattern discrimination learning by monkeys: Dissociation produced after resections of frontal and inferotemporal cortex. Neuropsychologia 15: 439-448, 1977.

7. **Ungerleider, L. G.** and Christensen, C. A.: Pulvinar lesions in monkeys produce abnormal eye movements during visual discrimination training. Brain Res. 136: 189-196, 1977.

8. **Ungerleider, L. G.** and Christensen, C. A.: Pulvinar lesions in monkeys produce abnormal scanning of a complex visual array. Neuropsychologia 17: 493-501, 1979.

9. **Ungerleider, L. G.** and Mishkin, M.: The striate projection zone in the superior temporal sulcus of Macaca mulatta: Location and topographic organization. J. Comp. Neurol. 188: 347-366, 1979.

10. Reppert, S. M., Perlow, M. J., **Ungerleider, L. G**., Mishkin, M., Tamarkin, L., Orloff, D. G., Hoffman, H. J., and Klein, D. C.: Effects of damage to the suprachiasmatic area of the anterior hypothalamus on the daily melatonin and cortisol rhythms in the rhesus monkey. J. Neurosci. 1: 1414-1425, 1981.

11. Mishkin, M. and **Ungerleider, L. G**.: Contribution of striate inputs to the visuospatial functions of parieto-preoccipital cortex in monkeys. Behav. Brain Res. 6: 57-77, 1982.

12. Mishkin, M., Lewis, M. E., and **Ungerleider, L. G.:** Equivalence of parieto-preoccipital subareas for visuospatial ability in monkeys. Behav. Brain Res. 6: 41-55, 1982.

13. **Ungerleider, L. G**., Galkin, T. W., and Mishkin, M.: Visuotopic organization of projections from striate cortex to inferior and lateral pulvinar in rhesus monkey. J. Comp. Neurol. 217: 137-157, 1983.

14. **Ungerleider, L. G**., Desimone, R., Galkin, T. W., and Mishkin, M.: Subcortical projections of area MT in the macaque. J. Comp. Neurol. 223: 368-386, 1984.

15. Reppert, S. M., Perlow, M. J., Artman, H. G., **Ungerleider, L. G**., Fisher, D. A., and Klein, D. C.: The daily oxytocin rhythm in primate cerebrospinal fluid: Effects of destruction of the suprachiasmatic nuclei. Brain Res. 307: 384-387, 1984.

16. Desimone, R., Schein, S. J., Moran, J., and **Ungerleider, L. G**.: Contour, color, and shape analysis beyond the striate cortex. Vision Res. 25: 441-452, 1985.

17. Tusa, R. J. and **Ungerleider, L. G.:** The inferior longitudinal fasciculus: A reexamination in humans and monkeys. Annals Neurol. 18: 583-591, 1985.

18. Bachevalier, J., **Ungerleider, L. G**., O'Neill, J. B., and Friedman, D. P.: Regional distribution of [^{3}H]naloxone binding in the brain of a newborn rhesus monkey. Dev. Brain Res. 25: 302-308, 1986.

19. **Ungerleider, L. G.** and Desimone, R.: Projections to the superior temporal sulcus from the central and peripheral field representations of V1 and V2. J. Comp. Neurol. 248: 147-163, 1986.

20. Desimone, R. and **Ungerleider, L. G**.: Multiple visual areas in the caudal superior temporal sulcus of the macaque. J. Comp. Neurol. 248: 164-189, 1986.

21. **Ungerleider, L. G**. and Desimone, R.: Cortical projections of visual area MT in the macaque. J. Comp. Neurol. 248: 190-222, 1986.

22. Segraves, M. A., Goldberg, M. E., Deng, S.-Y., Bruce, C. J., **Ungerleider, L. G**., and Mishkin, M.: The role of striate cortex in the guidance of eye movements in the monkey. J. Neurosci. 7: 3040-3058, 1987.

23. Tusa, R. J. and **Ungerleider, L. G**.: Fiber pathways of cortical areas mediating smooth pursuit eye movements in monkeys. Annals Neurol. 23: 174-183, 1988.

24. Huang, F. L., Yoshida, Y., Nakabayashi, H., Friedman, D. P., **Ungerleider, L. G**., Young III, W. S., and Huang, K.-P.: Type I protein kinase C isozyme in the visual-information-processing pathway of monkey brain. J. Cell. Biochem. 39: 401-410, 1989.

25. **Ungerleider, L. G**., Gaffan, D., and Pelak, V.: Projections from inferior temporal cortex to prefrontal cortex via the uncinate fascicle in rhesus monkeys. Exp. Brain Res. 76: 473-484, 1989.

26. Boussaoud, D., **Ungerleider, L. G**., and Desimone, R.: Pathways for motion analysis: Cortical connections of the medial superior temporal and fundus of the superior temporal visual areas in the macaque. J. Comp. Neurol. 296: 462-495, 1990.

27. Saint-Cyr, J. A., **Ungerleider, L. G**., and Desimone, R.: Organization of visual cortical inputs to the striatum and subsequent outputs to the pallido-nigral complex in the monkey. J. Comp. Neurol. 298: 129-156, 1990.

28. Baizer, J. S., **Ungerleider, L. G**., and Desimone, R.: Organization of visual inputs to inferior temporal and posterior parietal cortex in monkeys. J. Neurosci. 11: 168-190, 1991.

29. Haxby, J. V., Grady, C. L., Horwitz, B., **Ungerleider, L. G**., Mishkin, M., Carson, R. E., Herscovitch, P., Schapiro, M. B., and Rapoport, S. I.: Dissociation of object and spatial visual

processing pathways in human extrastriate cortex. Proc. Natl. Acad. Sci. USA 88: 1621-1625, 1991.

30. Haxby, J. V., Grady, C. L., **Ungerleider, L. G**., and Horwitz, B.: Mapping the functional neuroanatomy of the intact human brain with brain work imaging. Neuropsychologia 29: 539-555, 1991.

31. Webster, M. J., **Ungerleider, L. G**., and Bachevalier, J.: Connections of inferior temporal areas TE and TEO with medial temporal-lobe structures in infant and adult monkeys. J. Neurosci. 11: 1095-1116, 1991.

32. Webster, M. J., **Ungerleider, L. G**., and Bachevalier, J.: Lesions of inferior temporal area TE in infant monkeys alter cortico-amygdalar projections. NeuroReport 2: 769-772, 1991.

33. Boussaoud, D., Desimone, R., and **Ungerleider, L. G**.: Visual topography of area TEO in the macaque. J. Comp. Neurol. 306: 554-575, 1991.

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