

Curriculum Vitae

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Personal

Date of Birth: March 30, 1961

Place of Birth: Wilkes-Barre, Pennsylvania USA

Education

- 1983** **B.S.**
Speech Pathology, High Honors
Pennsylvania State University, University Park, PA
- 1984 – 1989** **Ph.D.**
Psychology (Neuroscience), Thesis Adviser: Dr. Jon H. Kaas
Vanderbilt University, Nashville, TN

Professional Appointments and Experience

- 1989 – 1990** **Postdoctoral Fellow** with Dr. Jon H Kaas
Vanderbilt University, Nashville, TN, USA
- 1990 - 1992** **ARC Research Associate.** Postdoctoral advisor: Dr. Mike Calford.
Vision, Touch and Hearing Research Centre, Department of Physiology and
Pharmacology
University of Queensland, Brisbane, Australia
- 1993 – 1995** **ARC Research Fellow**
Vision, Touch and Hearing Research Centre, Department of Physiology and
Pharmacology
University of Queensland, Brisbane, Australia
- 1995 – 1998** **Assistant Professor**
Department of Psychology, and Center for Neuroscience
UC Davis, Davis, CA, USA
- 1999 – 2001** **Associate Professor III**
Department of Psychology, and Center for Neuroscience

	UC Davis, Davis, CA, USA
2001 – 2003	Professor I Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA
2003 – 2006	Professor II Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA
2006 – 2008	Professor III Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA
2008 – 2011	Professor V Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA
2011 – 2013	Professor VI Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA
2013 – present	Professor VII Department of Psychology, and Center for Neuroscience UC Davis, Davis, CA, USA

Honors and Awards

1987	Kreig Cortical Scholar Award, Cajal Club
1996	Herrick Award, American Association of Anatomists
1998	MacArthur Award, MacArthur Foundation
1999	Special Lecture for the Society for Neuroscience Meeting
2002 – 2003	The James McKeen Cattell Sabbatical Fellowship
2002 – 2003	Bloedel Visiting Scientist Fellowship, University of Washington
2011	Distinguished Alumni Award, Vanderbilt University
2012	Dean's Innovation Award, Division of Social Sciences, University of California, Davis

Grant Support

1986	Travel Award for College on the Organization of the Brain, International Centre for Theoretical Physics, Trieste, Italy
1987 – 1989	Predocorial Fellowship "Organization of neocortex in a primate." NIMH. PI: Leah Krubitzer
1987	Travel Award for the IBRO Second World Congress of Neuroscience, Budapest,

Hungary, Society for Neuroscience

- 1989** NIH Postdoctoral Fellowship "Developmental influences on retinogeniculate axon arbors." Massachusetts Institute of Technology, Cambridge, MA, USA (declined)
- 1993 - 1997** ARC Research Fellowship "A comparative study of the organization and connections of neocortex in Australian mammals." PI: Leah Krubitzer, R VTHRC ARF 9 94.
- 1994 -1995** ARC Small Grant "Thalamocortical relationships in the somatosensory system of mammals." PI: Leah Krubitzer, R VTHRC ARC 1261 94 B Small.
- 1994** University of Queensland Research Grant "The organization and connections of neocortex in mammals." PI: Leah Krubitzer, NSG-17 VTHRC-94.
- 1995** The Ciba Foundation Bursary Award Host for Zoltán Molnár. "Interaction between the developing thalamus and cerebral cortex: mechanisms involved in the specification of cortical areas."
- 1997 – 2000** NIH RO1. "The somatosensory cortex and thalamus." PI: Leah Krubitzer, 1 RO1 NS35103-01A1.
- 1997 – 2000** Whitehall Foundation "The role of the somatosensory system in intra- manual and bilateral coordination of the hands." PI: Leah Krubitzer M97-20.
- 1998 – 2001** McDonnell-Pew Cognitive Neuroscience Program "Higher order somatosensory processing networks: A combined fMRI study in monkeys and humans." PI: Leah Krubitzer.
- 2000 – 2004** NIH RO1 (NINDS) "The somatosensory cortex and thalamus." PI: Leah Krubitzer 1 RO1 NS35103-05A1.
- 2000 – 2004** NIH 1 R21 MH066756-01. "The role of the somatosensory cortex in affective social behavior." Co-PI.
- 2004 – 2008** McDonnell Foundation. "How does evolution build a complex brain?" PI: Leah Krubitzer.
- 2005 – 2010** R01 "The somatosensory cortex and thalamus." PI: Leah Krubitzer.
- 2008 – 2011** NSF Genetic and Epigenetic contributions to the cortical phenotype
- 2010 – 2012** R21 (NINDS) "Can cortical plasticity and adaptive behavior be amplified by an enhanced visual environment? PI: Leah Krubitzer
- 2010 – 2012** R21 "Effects of Early Experience on Somatosensory Systems in Voles. Co-PI Leah Krubitzer
- 2012 – 2014** R21 (NIBIB) "Development of a Microfluidic Thermal Regulator for Studies of Cortical Function
- 2010 – 2015** R01 (NINDS) "The somatosensory cortex and thalamus." PI: Leah Krubitzer
- 2013 – 2017** R01 (NEI) Can Cortical Plasticity be Directed and Amplified Following Early Loss of Vision?
- 2013 – 2015** R03 (FIRCA) Effects of reversible deactivation of PPC in New World Cebus monkeys

Meetings and Conferences Organized

- 2001** Co-organizer for IIIrd Antonio Borsellino College on Neurophysics
"Evolution of Intelligent Behavior"
Trieste, Italy
April 23 - May 4
- 2004** Co-organizer for IIIrd Antonio Borsellino College on Neurophysics
"Sensory Coding - Spike Trains to Behavior"
Trieste, Italy
September 27, 2004 – October 8
- 2009** Co-Organizer. Summer Institute in Cognitive Neuroscience. Sage Institute
Santa Barbara, California
June 22 – July 3rd
- 2013** Co-Organizer. Summer Institute in Cognitive Neuroscience. Learning and Plasticity
Lake Tahoe, California
June 24 – 26
- 2014** Co-Organizer. Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology.
Barcelona, Spain.
September 1 - 14

NIH Study Sections

Multimodal Integration Research Networks in Cognitive Neuroscience	June, 2002
IFCN-8	February, 2003 December, 2003
NIH, Human Brain Mapping	May, 2003 February, 2004 February, 2006
ZRG1-IFCN-E (01)	April, 2004
Director's Pioneer Award Special Study Section	2009
NIDA sponsored meeting: "Not Just a Matter of Gray and White: Exploring the Importance of Evolution, Genes and Experience on Brain Development" special council.	July 9-10, 2009

NSF Research Panels

2013 Organization Program in Neural Systems
Panel 2: Neuro EvoDevo

2013 Study section: NIH; Mechanisms of Sensory, Perceptual and Cognitive Processes (SPC)

Editorial Board

Evolution of Nervous Systems, Volumes 1-4, (2003-2006)
Elsevier Science, publisher

International Review in Neurobiology
Elsevier Science, publisher

Journal of Comparative Neurology

Visual Neuroscience

Anatomical Record

Brain, Behavior and Evolution

Editor

The Evolution of Nervous systems in mammals, Volume IV (2006)
Elsevier Science, publisher

Section Editor: The Cognitive Neurosciences. Learning and Plasticity (2013)

Journal Referee 1990 - present

American Journal of Primatology

Anatomical Records

Brain, Behavior and Evolution

Brain Research

Cerebral Cortex

Development

European Journal of Neuroscience

Experimental Brain Research

Evolution

Frontiers in Neuroanatomy

Frontiers in Neuroscience

Human Brain Mapping

Journal of Comparative Neurology

Journal of Neurophysiology

Journal of Neuroscience

Journal of Visual Neuroscience

Nature Neuroscience

Nature

Neuroimage

Neuron
Neuroscience
PNAS
PLoS
Science
Somatosensory and Motor Research

Invited Conferences and Symposia

- 1994** Rapporteur for Dahlem Workshop on Flexibility and Constraint in Behavioral Systems. Berlin, Germany.
- 1994** Symposium on "Cortical Field Development and Evolution. European Winter Conference on Brain Research. La Playne, France.
- 1994** Symposium on Somesthesia and the Neurobiology of the Somatosensory Cortex. Stockholm, Sweden.
- 1994** The Ciba Foundation Symposium on "The Development of the Cerebral Cortex". London, England.
- 1995** Symposium on the Formation of Cortical Maps. Held in Honor of Hendrik Van der Loos. Amsterdam, Netherlands.
- 1996** American Association of Anatomists, Herrick Award Lecture, Washington, D. C., USA.
- 1996** McDonnell, Summer Institute in Cognitive Neuroscience, Dartmouth College and School of Medicine. Hanover, NH, USA.
- 1996** Society for Neuroscience Special Interest Social: The Future of Research on the Somatosensory System. Washington D.C., USA.
- 1997** Polish Society for Neuroscience meeting, special lecture, Cortical Plasticity in Mammals. Lodz, Poland.
- 1997** Human Frontier Science Program Workshop, Evolutionary Perspectives on the Brain and Mind, Strasbourg, France.
- 1998** The Fifth International Congress of Neuroethology. Early brain damage and cortical reorganization: Implications for theories of brain evolution. La Jolla, CA, USA.
- 1999** Harvard Medical School, Program in Neuroscience. Student-run Spring Symposium on Evolutionary Neurobiology. Boston, MA, USA.
- 1999** Novartis Foundation Symposium, Evolutionary Developmental Biology of the Cerebral Cortex. London, England.
- 2000** Third Berlin Workshop on Cortical Plasticity, Mechanisms of Reorganization. Berlin, Germany.
- 2000** Cajal Club mini symposium on Evolution of the Neocortex. San Diego, CA, USA.
- 2000** NIMH, Opportunities in Cognitive Neuroscience Workshop: The use of multiple techniques to examine the somatosensory system in human and non-human primates.

- Bethesda, MD, USA.
- 2000** The Jackson Laboratory Symposium, University of California, Davis. Davis, CA, USA.
- 2001** Summer Institute in Cognitive Neuroscience. Dartmouth, NH, USA.
- 2001** Cold Spring Harbor, Banbury Center, Cortical Maps. Laurel Hollow, NY, USA.
- 2001** MGH - Winter Conference on Brain Research Symposium on Cortical Map Plasticity. Boston, MA, USA.
- 2001** Jean Piaget Society Meeting. Berkeley, CA, USA.
- 2001** Symposium on the Evolution of the Brain. Kyoto, Japan.
- 2002** Fourth Workshop on cortical plasticity: Multimodal plasticity in cerebral cortex in the developmentally blind. Schwetzingen, Germany.
- 2002** Attention and Performance. Erice, Italy.
- 2003** 23rd European Winter Conference on Brain Research. France
- 2003** International Brain Research Organization. Prague, Czech Republic.
- 2003** Keynote Speaker at the Annual Retreat of the Center for the Neural Basis of Cognition. Carnegie Mellon and University of Pittsburgh Neuroscience graduate group. Pittsburgh, PA, USA.
- 2003** Keynote speaker, Annual Retreat of Neuroscience graduate group. Tulane University, New Orleans, LA, USA.
- 2004** The McDonnell Foundation Conference. Palisades, New York, USA.
- 2004** Novartis Foundation Symposium 270: Percept, Decision, Action: Bridging the Gaps. Trieste, Italy.
- 2005** Darwin Day Keynote Speaker, Sacramento, CA, USA.
- 2005** American Association for the Advancement of Science. Symposium on Comparative Perspectives on Brain and Behavior. Washington D.C., USA.
- 2005** Experimental Biology Conference. San Diego, CA, USA.
- 2005** Summer Institute in Cognitive Neuroscience, Evolutionary plasticity in the mammalian neocortex. Dartmouth University, Hanover CT, USA.
- 2005** OSA meeting symposium: Evolution of the visual system, Tucson, AZ, USA.
- 2005** Plenary Lecture. European Brain and Behavior Society. Dublin, Ireland.
- 2005** National Academy of Sciences, 17th Annual Frontiers of Science Symposium. Design Principles in the Visual System, Chair. Irvine, CA, USA.
- 2006** ICAM: Grand Challenges in Neuroscience. Santa Fe, NM, USA.
- 2007** EEEEC. Paris, France.
- 2006** ICAM: Annual conference, Grand Challenges in Neuroscience. Santa Fe, NM, USA.
- 2007** Keynote Speaker, Human Brain Mapping. Chicago, IL, USA.

- 2007** Project for Explaining the Origin of Humans (POH) Symposium. La Jolla, CA, USA.
- 2007** Society for Neuroscience, Special Lecture. San Diego, CA, USA.
- 2007** EEEEC, Paris, France
- 2007** Consciousness and the Brain in Context Workshop, UC Berkeley. Berkeley, CA, USA.
- 2008** International Neuropsychological Symposium, Evolution of the Human Brain and Human Cognition. Tenerife, Spain.
- 2008** Museum of Natural History, First Fridays lecture series. Los Angeles, CA, USA.
- 2010** Plenary Lecture. University of Washington. Roger Brown Loucks Lectureship. Seattle, WA, USA.
- 2010** Woods Hole. Neural systems and behavior course lecture. Woods Hole, MA, USA.
- 2010** Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2010** Vision Down Under, University of Queensland. Brisbane, Australia.
- 2010** Karger Symposium. San Diego, CA, USA.
- 2011** Center for Mind and Brain, UC Davis. Davis, CA, USA.
- 2011** University of Oregon, Special Lecture, Graduate Student Retreat. Eugene, OR, USA.
- 2011** The Allen Institute, Open Questions in Neuroscience. Seattle, WA, USA.
- 2012** National Academy of Sciences Sackler Symposium: In Light of Evolution. Irvine, CA USA.
- 2012** University of Texas, Center for Brain Health Symposium: Reprogramming the Brain to Health. Dallas, TX, USA
- 2012** New York Academy of Sciences: Play, Attention, and Learning. New York, NY, USA.
- 2012** McDonnell Summer Institute. Santa Barbara, CA, USA.
- 2013** Keynote Speaker, Annual Baycrest Rotman Research Institute Neuroscience Conference. Toronto, Canada.
- 2013** Keynote Speaker, Annual Neuroscience Graduate Student Symposium. Lisbon, Portugal
- 2013** Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA, USA.
- 2013** Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.

Seminars and Colloquia

- 1984** Society for Neuroscience (Middle Tennessee Chapter).
- 1985** J.B. Johnston Club. Dallas, TX, USA.
- 1985** Vanderbilt Visionaries. Nashville, TN, USA.

1987 Vanderbilt Visionaries. Nashville, TN, USA.

1990 University of Queensland. Brisbane, Australia.

1991 J. B. Johnston Club. New Orleans, LA, USA.

1991 Department of Psychology, Vanderbilt University. Nashville, TN, USA.

1992 University of California. Irvine, CA, USA.

1993 University of Sydney. Sydney, Australia.

1993 INSERM. Lyon, France.

1994 European Winter Brain Conference. La Playne, France.

1995 Max Planck. Frankfurt, Germany.

1996 Cornell University, Department of Neurobiology. Ithaca, NY, USA.

1996 Department of Optometry, UC Berkeley. Berkeley, CA, USA.

1997 Department of Psychology, UC Berkeley. Berkeley, CA, USA.

1997 MIT. Boston, MA, USA.

1997 Nencki Institute. Warsaw, Poland.

1998 Center for Visual Science, University of Rochester. Rochester, NY, USA.

1998 Department of Neurobiology, School of Medicine, Harvard University. Boston, MA, USA.

1998 Department of Molecular and Cellular Biology, UC Berkeley. Berkeley, CA, USA.

1998 UC San Francisco. San Francisco, CA, USA.

1999 Hebb Club, Berkeley, CA, USA.

2000 Helmholtz Club, UC Berkeley, Berkeley, CA, USA

2000 Department of Psychology, UC Berkeley. Berkeley, CA, USA.

2000 University of New York. Stony Brook, NY, USA.

2001 Princeton University. Princeton, NJ, USA.

2001 Bell Laboratories. Murray Hill, NJ, USA.

2001 Department of Psychology, UC Berkeley. Berkeley, CA, USA.

2001 University of Chicago. Chicago, IL, USA.

2001 University of Illinois. Chicago, IL, USA.

2002 California Institute of Technology. Pasadena, CA, USA.

2002 MIT. Boston, MA, USA.

2002 Brandeis University, Boston, MA, USA.

2002 University of California, San Diego/The Salk Institute. San Diego, CA, USA.

2002 University of Washington. Seattle, WA, USA.

- 2003** The Keck Center, UC San Francisco. San Francisco, CA, USA.
- 2003** The Ernest Gallo Clinic and Research Center, UC San Francisco. San Francisco, CA, USA.
- 2003** Krieger Mind/Brain Institute, Johns Hopkins University. Baltimore, MD, USA.
- 2003** Department of Anthropology, UC San Diego. San Diego, CA, USA.
- 2003** Department of Cell Biology and Neuroscience, Montana State University. Bozeman, MT, USA.
- 2003** Department of Psychology, Stanford University. Palo Alto, CA, USA.
- 2004** Smith-Kettlewell Eye Research Institute. San Francisco, CA, USA.
- 2005** Oxiopia seminar series, Department of Optometry, UC Berkeley. Berkeley, CA, USA.
- 2006** University of Illinois. Champagne-Urbana, IL, USA.
- 2006** Mt. Sinai Medical School. New York, NY, USA.
- 2007** Department of Neurobiology, School of Medicine, Harvard University. Boston, MA, USA.
- 2007** The Allen Institute for Brain Science. Seattle, WA, USA.
- 2007** Department of Human Development and Department of Cognitive Neuroscience, UC San Diego. San Diego, CA, USA.
- 2007** Department of Psychology, Weber State University. Ogden, UT, USA.
- 2008** Department of Neuroscience, Virginia Commonwealth University. Richmond, VA, USA.
- 2008** Department of Psychology, Johns Hopkins University. Baltimore, MD, USA.
- 2008** Department of Philosophy, University of California, Berkeley. Berkeley, CA, USA.
- 2008** Department of Psychology, University of Iowa. Iowa City, IA, USA.
- 2008** Department of Anatomy and Cell Biology, University of Melbourne. Melbourne, Australia.
- 2008** Queensland Brain Institute, University of Queensland. Brisbane, Australia.
- 2009** Columbia University. New York, NY, USA.
- 2009** University of California, Irvine. Irvine, CA, USA.
- 2010** Vanderbilt University – graduate seminar course invited lecture. Nashville, TN, USA.
- 2011** Department of Psychology, UC Berkeley. Berkeley, CA, USA.
- 2011** Department of Psychology, Vanderbilt University, Nashville, TN, USA.
- 2011** Department of Neurobiology, Physiology, and Behavior, UC Davis. Davis, CA, USA.
- 2012** Center for Complex Systems, University of Michigan. Ann Arbor, MI, USA.
- 2013** Department of Neurobiology, University of Chicago. Chicago, IL, USA.

2103 Yale University, Department of Neurobiology, New Haven CT, USA

2014 Maximilian Ludwig University, Munich Germany

PUBLICATIONS

Book Chapters

1. Kaas, J.H. and L.A. Krubitzer (1991) The organization of extrastriate visual cortex. (B. Dreher and S.R. Robinson, eds.), In: Vision and Visual Dysfunction, Volume 3, Neuroanatomy of the Visual Pathways and Their Development. Macmillan Press, London, pp 302-323.
2. Krubitzer, L., R. Belew, C. Boake, E. Boncinelli, E. Brenowitz, S. de Belle, J. Edwards, W.P.M. Geraerts. B. Kyriacou, G. Miklos, F. von Schilcher (1994) How Do Evolution and Behavior Interact? In: Dahlem Workshop on Flexibility and Constraint in Behavioral Systems. John Wiley and Sons, Chichester, pp. 295-305.
3. Krubitzer, L.A. (1996) The Organization of Lateral Somatosensory Areas In Primates and Other Mammals. In: Somesthesia and the Neurobiology of the Somatosensory Cortex, International Symposium Series, (O. Franzen, R. Johanson, and L. Terenius, eds.) Boston, Birkhaeuser. pp.173-185.
4. Krubitzer, L.A. (1998) Constructing the neocortex: Influences on the pattern of organization in mammals. In: Brain and Mind: Evolutionary Perspectives. (M. S. Gazzaniga and J. Altman, eds.) Human Frontier Science Program. Strasbourg, pp. 19-34.
5. Krubitzer, L.A. (2000) How does evolution build a complex brain? In: Evolutionary Developmental Biology of the Cerebral Cortex (G.R. Bock, G. Cardew, ed.) John Wiley and Sons, LTD. Chichester, pp. 206-220.
6. Krubitzer, L.A. (2002) Evolutionary Perspectives in: Cognitive Neuroscience (M. Gazzaniga, R. Ivry, and R. Mangun eds.) W. W. Norton and Company, pp. 577-596.
7. Krubitzer, L. and Kahn, D (2004) The evolution of human neocortex: Is the human brain fundamentally different than that of other mammals? In: Functional Neuroimaging of Visual Cognition (Attention and Performance Series 20). (N. Kanwisher, J. Duncan, C. eds.) Oxford University Press, Oxford, pp. 57-82.
8. Karlen, S. J. and Krubitzer, L. (2006) The evolution of the neocortex in mammals: intrinsic and extrinsic contributions to the cortical phenotype. In: Percept, Decision, Action: Bridging the Gaps (D. J. Chadwick, M. diamond and J. Goode eds). Novartis Foundation Symposium. John Wiley and Sons Ltd, Chichester, UK, pp 146-163.
9. Krubitzer, L. and Hunt, D. (2006). Captured in the net of space and time: Understanding cortical field evolution. In: The Evolution of Nervous Systems in Mammals, Volume IV (Kaas, J.H. and Krubitzer L., eds). Academic Press, Oxford, pp. 49-72.

10. Disbrow, E., Hinkley, L., Padberg, J., and Krubitzer, L. (2006). Hand use and the evolution of posterior parietal cortex in primates. In: The Evolution of Nervous systems in Primates, Volume IV (Kaas, J.H. and Preuss, T. eds.). Academic Press, Oxford, pp. 407-416.
11. Krubitzer, L., and Disbrow, E. (2008) The evolution of parietal areas involved in hand use in primates. In: The Senses: A Comprehensive Reference. Volume 6, Somatosensation (Jon Kaas and Ester Gardner eds.) Elsevier, London, pp. 183-214.
12. Karlen, S. J. and Krubitzer, L. (2009) The organization of neocortex in marsupials In: Encyclopedia of Neuroscience. In Squire LR (ed) Encyclopedia of Neuroscience. Oxford: Academic Press. Volume 5, pp. 671-679.
13. Krubitzer, L., and Campi, K (2009). The organization of neocortex in monotremes. In: Encyclopedia of Neuroscience. In Squire LR (ed) Encyclopedia of Neuroscience. Oxford: Academic Press. Volume 6, pp. 51-59.
14. Krubitzer, L. Padberg, J. (2009) Evolution of parietal association areas of the neocortex in mammals. In: Encyclopedic Reference of Neuroscience (Ann Butler, ed.) Springer, Volume 5. Pp 1225-1231.
15. Krubitzer, L. and Hunt, D. (2009). Captured in the net of space and time: Understanding cortical field evolution. In: Evolutionary Neuroscience (Kaas, J.H. ed). Chapter 23 Academic Press, Oxford, pp. 545-568.
16. Karlen, S.J., Hunt, D., and Krubitzer (2010). Cross-modal plasticity in mammalian neocortex. Chapter 18 In: Oxford Handbook of Developmental and Behavioral Neuroscience. (Eds. Mark S. Blumberg, John H. Freeman, and Scott R. Robinson). Oxford University Press. Pp 357-374.
17. Krubitzer, L and Disbrow E (2010) The evolution of parietal areas involved in hand use in primates. In: Spatial Cognition, Spatial Perception. (Dolins, EL and Mitchell, RW eds). Cambridge University Press. Chapter 16. pp. 365-421.
18. Cooke DF, Goldring A, Recanzone GH, Krubitzer L (2013) The evolution of parietal areas associated with visuomanual behavior: From grasping to tool use. In The Visual Neurosciences (Chalupa, L and Werner J eds). MIT Press, Cambridge pp. 1049-1063.
19. Krubitzer LA, Seelke AMH (2013) Cortical evolution in mammals: The bane and beauty of phenotypic variability. In: Light of Evolution. (Awise, JC and Ayala, FJ eds.) National Academies Press. Chapter 6, pp. 91 – 111. In press
20. Krubitzer L (2013) The few important things I've learned. In: The future of the Brain; Essays by the world's leading neuroscientists. (Gary Marcus ed). In press

Invited Journal Reviews

1. Krubitzer, L (1995) The organization of neocortex in mammals: Are species differences really so

- different? Trends Neurosci. 18:408-417. PMID: 7482807
2. Krubitzer, L (1998) What can monotremes tell us about brain evolution? Philos Trans R Soc Lond B Biol Sci. 353:1127-1146. PMCID: PMC1692304
 3. Rosa, MG and Krubitzer, LA (1999) The evolution of visual cortex: Where is V2? Trends Neurosci. 22: 242-247. PMID: 10354599
 4. Krubitzer, L and Huffman KJ. (2000) Arealization in the neocortex of mammals: Genetic and epigenetic contributions to the phenotype. Brain Behav Evol. 55:322-335. PMID: 10971017
 5. Krubitzer, L and Kahn, D (2003) Nature versus nurture revisited: An old idea with a new twist. Prog in Neurobiol. 70:33-52. PMID: 12927333
 6. Krubitzer, L and Kaas, JH (2005) The evolution of the neocortex in mammals: How is phenotypic diversity generated? Curr Opin Neurobiol. 15:444-453. PMID: 16026978
 7. Karlen, SJ and Krubitzer, L (2007) The functional and anatomical organization of marsupial neocortex; evidence for parallel evolution in mammals. Prog Neurobiol. 82:122-141. PMCID: PMC1978492
 8. Krubitzer, L (2007). The magnificent compromise: Cortical field evolution in mammals. Neuron. 56:201-208. PMID: 17964240
 9. Larsen DD and Krubitzer L (2008) Genetic and epigenetic contributions to the cortical phenotype in mammals. Brain Res Bull. 75:391-397. PMCID: PMC2607039
 10. Krubitzer, L (2009) In search of a unifying theory of complex brain evolution. The Year In Cognitive Neuroscience. Ann N Y Acad Sci. 1156: 44-67. PMCID: PMC2666944
 11. Krubitzer, L, Campi KL, Cooke DF (2011) All rodents are not the same: A modern synthesis of cortical organization. Brain Behav and Evol. 78:51-93. PMCID: PMC3182045
 12. Krubitzer L, and Seelke AMH (2012) Cortical evolution in mammals: The bane and beauty of phenotypic variability. Proc Natl Acad Sci U S A. 109:10647-10654. PMCID: PMC3386882
 13. Hedges JH, Adolph KE, Bavelier D, Fiez JA, Krubitzer L, McAuley JD, Newcombe NS, Fitzpatrick SM, Ghajar J (2013) Play, attention and learning: How do play and timing shape the development of attention and influence classroom learning? Ann NY Acad Sci. 1292:1-20. PMCID: PMC3842829
 14. Krubitzer L and Dooley JC (2013) Cortical plasticity within and across lifetimes: How can development inform us about phenotypic transformation? Front Hum Neurosci. 7:620. PMCID: PMC3793242
 15. Krubitzer L and Stolzenberg DS (2013) The evolutionary masquerade: Genetic and epigenetic contributions to the neocortex. Curr Opin Neurobiol. 24C:157-165 PMID: 24492091

Research Papers

1. Krubitzer LA, Sesma MA, and Kaas JH (1986) Microelectrode maps, myeloarchitecture, and cortical connections of three somatotopically organized representations of the body surface in the parietal cortex of squirrels. J Comp Neurol. 250:403-430. PMID: 3760247
2. Huerta MF, Krubitzer LA, and Kaas JH (1986) Frontal eye field as defined by intracortical microstimulation in squirrel monkeys, owl monkeys, and macaque monkeys: I. subcortical connections. J Comp Neurol. 253:415-439. PMID: 3793998
3. Huerta MF, Krubitzer LA, and Kaas JH (1987) Frontal eye fields as defined by intracortical microstimulation in squirrel monkeys, owl monkeys, and macaque monkeys II: Cortical connections. J Comp Neurol. 265:332-361. PMID: 2447132
4. Krubitzer LA and Kaas JH (1987) Thalamic connections of three representations of the body surface in somatosensory cortex of grey squirrels. J Comp Neurol. 265:549-580. PMID: 2448348
5. Luethke LE, Krubitzer LA, and Kaas JH (1988) Cortical connections of electrophysiologically and architectonically defined subdivisions of auditory cortex in squirrels. J Comp Neurol. 268:181-203. PMID: 3360984
6. Krubitzer LA and Kaas JH (1988) Responsiveness and somatotopic organization of anterior parietal field 3b and adjacent cortex in newborn and infant monkeys. Somatosens Mot Res. 6:179-205. PMID: 3242345
7. Krubitzer LA and Kaas JH (1989) Cortical integration of parallel pathways in the visual system of primates. Brain Res. 478:161-165. PMID: 2466529
8. Kaas JH, Krubitzer LA, and Johanson KL (1989) Cortical connections of areas 17 (V-I) and 18 (V-II) of squirrels. J Comp Neurol. 281:426-446. PMID: 2703555
9. Luethke LE, Krubitzer LA, and Kaas JH (1989) Connections of primary auditory cortex in the New World monkey, *Saguinus*. J Comp Neurol. 285:487-513. PMID: 2474584
10. Kaas JH, Krubitzer LA, Chino YM, Langston AL, Polley EH, and Blair N (1990) Reorganization of retinotopic cortical maps in adult mammals after lesions of the retina. Science. 248:229-231. PMID: 2326637
11. Krubitzer LA and Kaas JH (1990) The organization and connections of somatosensory cortex in marmosets. J Neurosci. 10:952-974. PMID: 2108231
12. Krubitzer LA and Kaas JH (1990) Cortical connections of MT in four species of primates: areal, modular, and retinotopic patterns. Vis Neurosci. 5:165-204. PMID: 2278944
13. Krubitzer L and Kaas J (1990) Convergence of processing channels in the extrastriate cortex of

monkeys. Vis Neurosci. 5:609-613. PMID: 1707652

14. Krubitzer LA and Calford MB (1992) Five topographically organized fields in the somatosensory cortex of the flying fox: microelectrode maps, myeloarchitecture, and cortical modules. J Comp Neurol. 317:1-30. PMID: 1573055
15. Krubitzer LA and Kaas JH (1992) The somatosensory thalamus of monkeys: Cortical connections and a redefinition of nuclei in marmosets. J Comp Neurol. 319:123-140. PMID: 1375605
16. Kaas JH and Krubitzer LA (1992) Area 17 lesions deactivate area MT in owl monkeys. Vis Neurosci. 9:399-407. PMID: 1390397
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