

Curriculum Vitae

Leah A. Krubitzer, Ph.D.

E-mail: lakrubitzer@ucdavis.edu

Phone: 530-757-8868

Center for Neuroscience
University of California, Davis
1544 Newton Court
Davis, CA 95618

Department of Psychology
University of California, Davis
One Shields Avenue
134 Young Hall
Davis, CA 95616

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
2014 –	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
2007	Center for Academic Research and Training in Anthropogeny (inducted member)
2011	Distinguished Alumni Award, Vanderbilt University
2012	Dean's Innovation Award, Division of Social Sciences, University of California, Davis
2014	International Neuropsychological Society (inducted member)

Grant Support

1986	Travel Award for College on the Organization of the Brain, International Centre for Theoretical Physics, Trieste, Italy
1987 – 1989	Predoctoral 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?

- 2014 – 2017** R03 (FIRCA) Effects of reversible deactivation of PPC in New World Cebus monkeys
- 2015 – 2016** Cal-BRAIN An integrated system to monitor, image and regulate neural activity.
- 2016 – 2021** R01 (NICHD) How does early sensory experience affect cortical connections and behavior?

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
- 2015** Co-Organizer. Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology.
Barcelona, Spain.
August 30 – Sept 14
- 2017** Co-Organizer. Workshop on Evo/Devo. At Living Machines Conference, Stanford
University, Palo Alto, California
July24- July 28

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, 2009
NIH; Mechanisms of Sensory, Perceptual and Cognitive Processes (SPC)	2013
ZRG1 F02B	June, 2014
	October, 2014
	March, 2016

NSF Research Panels

2013 Organization Program in Neural Systems
Panel 2: Neuro EvoDevo

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: Mammals (2006)
Elsevier Science, publisher

Section Editor: The Cognitive Neurosciences. Learning and Plasticity (2015)

The Evolution of Nervous systems in mammals, Volume III: Primates (2015-2016)
Elsevier Science, publisher

Guest Editor: PNAS

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, Symposia, Colloquia and Seminars

- 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.
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.
- 1995** Max Planck. Frankfurt, Germany.
- 1996** Cornell University, Department of Neurobiology. Ithaca, NY, USA.
- 1996** Department of Optometry, UC Berkeley. Berkeley, CA, USA.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 Fourth Workshop on cortical plasticity: Multimodal plasticity in cerebral cortex in the developmentally blind. Schwetzingen, Germany.
- 2002 Attention and Performance. Erice, Italy.
- 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.
- 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.
- 2004 Smith-Kettlewell Eye Research Institute. San Francisco, CA, USA.
- 2005 Oxiopia seminar series, Department of Optometry, UC Berkeley. Berkeley, CA, USA.
- 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.
2006 ICAM: Annual conference, Grand Challenges in Neuroscience. Santa Fe, NM, 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.
2007 EEEEC. Paris, France.
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.
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 **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.
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.
2011 Center for Mind and Brain, UC Davis. Davis, CA, USA.
2011 University of Oregon, **Keynote Speaker**, 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.
2012 Center for Complex Systems, University of Michigan. Ann Arbor, MI, USA.
2013 Department of Neurobiology, University of Chicago. Chicago, IL, USA.

- 2013 Yale University, Department of Neurobiology, New Haven CT, 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.
- 2014 Maximilian Ludwig University, Department of Biomedical Engineering, Munich Germany
- 2014 Sheffield University, Department of Psychology, England
- 2014 Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2014 **Harley Hotchkiss Memorial Lecture**, University of Lethbridge, Alberta, Canada
- 2014 **Harley Hotchkiss Memorial Lecture**, University of Calgary, Alberta Canada
- 2014 Summit on Human Evolution, Allen Institute, Seattle, Washington USA
- 2015 Cortical Evolution, Toledo, Spain
- 2015 Thalamus and Thalamocortical interactions, Rio de Janeiro, Brazil
- 2015 Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2015 UC, Riverside, USA
- 2015 Washington State University, USA
- 2016 Duke University, Institute for Brain Sciences, USA
- 2016 George Washington University, Department of Anthropology, Washington DC, USA
- 2016 Oregon Health and Science University, Department of Neuroscience, Portland, Oregon, USA
- 2016 Max Plank Institute for Biological Cybernetics, University of Tübingen, Institute for Theoretic Physics, Tübingen, Germany
- 2016 Department of Psychology, Vanderbilt University, Nashville, TN, USA
- 2016 Leonardo Art Science Evenings; University of California, Berkeley, USA
- 2016 University of Lausanne, Brain Evolution Symposium, Lausanne, Switzerland
- 2016 Case Western Reserve, Department of Neuroscience, Cleveland, Ohio, USA
- 2017 Center for Visual Neuroscience Symposium, UC Davis, Davis, CA USA
- 2017 University of Chicago, Computational Neuroscience Seminar Series, Chicago, IL, USA
- 2017 Washington University; Philosophy, Neuroscience and Psychology lecture, St. Louis, MO USA
- 2017 Rochester University, **The Ann Notter Special Lecture**, Department of Neuroscience, Rochester, New York, USA

Public Presentations

- 2016 Science Café, Davis, CA USA
- 2016 LASER Berkeley, CA
- 2016 Brain Awareness Day, UC Davis
- 2016 Department of Psychology, Vanderbilt University, Nashville, TN, USA
- 2016 Graduate Student Seminar Series, University of Arizona, Tucson, AZ, USA

PUBLICATIONS

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
17. Krubitzer LA, Calford MB, and Schmid LM (1993) Connections of somatosensory cortex in megachiropteran bats: The evolution of cortical fields in mammals. J Comp Neurol. 327:473-506. PMID: 8440777
18. Krubitzer LA and Kaas JH (1993) The dorsomedial visual area (DM) of owl monkeys: Connections, myeloarchitecture, and homologies with other primates. J Comp Neurol. 334:497-528. PMID: 8408763
19. Rosa MGP, Schmid LM, Krubitzer LA, and Pettigrew JD (1993) Retinotopic organization of the primary visual cortex of flying foxes (*Pteropus poliocephalus* and *Pteropus scapulatus*). J Comp Neurol. 335:55-72. PMID: 8408773
20. Krubitzer L, Manger P, Pettigrew JD, and Calford MB. (1995) The organization of neocortex in monotremes: In search of the prototypical plan. J Comp Neurol. 351:261-306. PMID: 7699113
21. Krubitzer L, Clarey J, Tweedale R, Elston G, and Calford M (1995) A redefinition of somatosensory areas in the lateral sulcus of macaque monkeys. J Neurosci. 15:3821-3839. PMID: 7751949
22. Krubitzer LA, Kunzle H, and Kaas JH (1997) The organization of sensory cortex in a Madagascan insectivore, the tenrec (*Echinops telfairi*). J Comp Neurol. 379:399-414. PMID: 9067832
23. Manger P, Sum M, Szymanski M, Ridgway SH, and Krubitzer L (1998) Modular subdivisions of dolphin anterior insular cortex: Does evolutionary history repeat itself? J Cogn Neurosci. 10:153-166. PMID: 9555104
24. Krubitzer L, Clarey JC, Tweedale R, and Calford MB (1998) Interhemispheric connections of somatosensory cortex in the flying fox. J Comp Neurol. 402:538-559. PMID: 9862325
25. Huffman KJ, Nelson J, Clarey J, and Krubitzer L (1999) Neocortical organization in four species of marsupials: Neural correlates of morphological specialization. J Comp Neurol. 403:5-32. PMID: 10075440
26. Rosa MGP, Krubitzer LA, Molnar Z, and Nelson JE (1999) Organization of visual cortex in the

northern quoll, *Dasyurus hallucatus*: Evidence for a homologue of the second visual area in marsupials. Eur J Neurosci. 11:907-915. PMID: 10103084

27. Disbrow E, Roberts T, Slutsky D, and Krubitzer L (1999) The use of fMRI for determining the topographic organization of cortical fields in human and nonhuman primates. Brain Res. 829:167-173. PMID: 10350543
28. Huffman KJ, Molnár Z, Van Dellen A, Kahn D, Blakemore C, and Krubitzer L (1999) Formation of cortical fields on a reduced cortical sheet. J Neurosci. 19:9939-9952. PMID: 10559402
29. Disbrow E, Krubitzer L, and Roberts T (2000) The somatotopic organization of the lateral sulcus areas in Homo Sapiens: Evidence for SII and PV. J Comp Neurol. 418:1-21. PMID: 10701752
30. Slutsky DA, Manger PR, and Krubitzer L (2000) Multiple somatosensory areas in the anterior parietal cortex of the California ground squirrel (*Spermophilus beecheyii*). J Comp Neurol. 416:521-539. PMID: 10660882
31. Disbrow EA, Slutsky DA, Roberts TP, and Krubitzer LA (2000) Functional MRI at 1.5 tesla: A comparison of the blood oxygenation level dependent signal and electrophysiology. Proc Natl Acad Sci U S A. 97:9718-9723. PMCID: PMC16931
32. Kahn DM, Huffman KJ, and Krubitzer L (2000) Organization and connections of V1 in *Monodelphis domestica*. J Comp Neurol. 428:337-354. PMID: 11064371
33. Disbrow E, Roberts T, Poeppel D, and Krubitzer L (2001) Evidence for interhemispheric processing of inputs from the hands in the human second somatosensory and parietal ventral areas. J Neurophysiol. 85:2236-2244. PMID: 11353038
34. Huffman KJ and Krubitzer L (2001) Thalamo-cortical connections of areas 3a and M1 in marmoset monkeys. J Comp Neurol. 435:291-310. PMID: 11406813
35. Huffman KJ and Krubitzer L (2001) Area 3a: Topographic organization and connections in marmoset monkeys. Cereb Cortex. 11:849-867. PMID: 11532890
36. Kahn DM and Krubitzer L (2002) Retinofugal projections in the short-tailed opossum (*Monodelphis domestica*). J Comp Neurol. 447:114-127. PMID: 11977115
37. Disbrow E, Litinas E, Recanzone GH, Slutsky D, and Krubitzer LA (2002) Thalamocortical connections of the parietal ventral area (PV) and the second somatosensory area (S2) in macaque monkeys. Thalamus Relat Syst. 1:289-302
38. Kahn DM and Krubitzer L (2002) Massive cross-modal cortical plasticity and the emergence of a new cortical field in developmentally blind mammals. Proc Natl Acad Sci U S A. 99:11429-11434. PMCID: PMC123273
39. Disbrow E, Litinas E, Recanzone GH, Padberg J, and Krubitzer L (2003) Cortical connections of the

- parietal ventral area and the second somatosensory area in macaque monkeys. J Comp Neurol. 462:382-399. PMID: 12811808
40. Krubitzer L, Huffman KJ, Disbrow E, and Recanzone G (2004) The organization of area 3a in macaque monkeys. J Comp Neurol. 471:97-111. PMID: 14983479
 41. Padberg J, Disbrow E, and Krubitzer L (2005) The organization and connections of anterior and posterior parietal cortex in titi monkeys: Do New World monkeys have an area 2? Cereb Cortex. 15:1938-1963. PMID: 15758196
 42. Hunt DL, King B, Kahn DM, Yamoah EN, Shull GE, and Krubitzer L (2005) Aberrant retinal projections in congenitally deaf mice: How are phenotypic characteristics specified in development and evolution. Anat Rec A Discov Mol Cell Evol Biol. 287:1051-1066. PMID: 16200647
 43. Hunt DL, Yamoah EN, and Krubitzer L (2006) Multisensory plasticity in congenitally deaf mice: How are cortical areas functionally specified? Neuroscience. 139:1507-1524. PMID: 16529873
 44. Padberg J and Krubitzer L (2006) Thalamocortical connections of anterior and posterior parietal cortical areas in New World titi monkeys. J Comp Neurol. 497:416-435. PMID: 16736469
 45. Karlen SJ, Kahn DM, and Krubitzer L (2006) Early blindness results in abnormal corticocortical and thalamocortical connections. Neuroscience. 142:843-858. PMID: 16934941
 46. Karlen SJ and Krubitzer L (2006) Phenotypic variability is the cornerstone of evolution: Variability in cortical field size within a species. J Comp Neurol. 499:990-999. PMID: 17072834
 47. Hinkley L, Krubitzer L, Nagarajan SS, and Disbrow EA (2007) Integration of tactile and motor inputs in the second somatosensory and parietal rostral ventral areas of the human Sylvian fissure. J Neurophysiol. 97:1288-1297. PMID: PMC4060608
 48. Campi KL, Karlen SJ, Bales KL, and Krubitzer L (2007) Organization of sensory neocortex in prairie voles (*Microtus ochrogaster*). J Comp Neurol. 502:414-426. PMID: 17366609
 49. Padberg J, Franc JG, Cooke DF, Soares JG, Rosa MG, Fiorani M Jr, Gattass R, Krubitzer L (2007) Parallel evolution of cortical areas involved in skilled hand use. J Neurosci. 27:10106-10115. PMID: 17881517
 50. Karlen SJ and Krubitzer L (2009) Effects of bilateral enucleation on the size of visual and non-visual areas of the brain. Cereb Cortex 19:1360-1371. PMID: PMC2677651
 51. Zhu Z, Zumer JM, Lowenthal ME, Padberg J, Recanzone GH, Krubitzer LA, Nagarajan SS, and Disbrow EA (2009) The relationship between magnetic and electrophysiological signals responses to complex tactile stimuli. BMC Neurosci. 10:4. PMID: PMC2652466

52. Padberg J, Cerkevich C, Engle J, Rajan AT, Recanzone G, Kaas J, and Krubitzer L (2009) Thalamocortical connections of parietal somatosensory cortical fields in macaque monkeys are highly divergent and convergent. Cereb Cortex 19:2038-2064. PMID: PMC2722424
53. Hinkley LB, Krubitzer LA, Padberg J, and Disbrow EA (2009) Visual-manual exploration and posterior parietal cortex in humans. J Neurophysiol 102:3433-3446. PMID: PMC2804435
54. Larsen DD, Luu JD, Burns ME, and Krubitzer L (2009) What are the effects of severe visual impairment on the cortical organization and connectivity of primary visual cortex? Front Neuroanat. 3:30. PMID: PMC2802552
55. Campi KL, Bales KL, Grunewald R, and Krubitzer, L (2010) Connections of Auditory Cortex in the Prairie Vole (*Microtus ochrogaster*): Evidence for multisensory processing in primary sensory areas. Cereb Cortex 20:89-108. PMID: PMC2792189
56. Cheung AF, Kondo S, Abdel-Mannan O, Chodroff RA, Sirey TM, Bluy LE, Webber N, Karlen SJ, Krubitzer L, Stolp HB, Saunders NR, and Molnár Z (2010) The subventricular zone is the developmental milestone of a 6-layered neocortex: Comparisons in metatherian and eutherian mammals. Cereb Cortex 20:1071-1081. PMID: 19726493
57. Zumer JM, Nagarajan SS, Krubitzer LA, Zhu Z, Turner RS, and Disbrow EA (2010) MEG in the macaque monkey and human: distinguishing cortical fields in space and time. Brain Res. 1345:110-124. PMID: PMC2899153
58. Campi KL and Krubitzer L (2010) Comparative studies of diurnal and nocturnal rodents: differences in lifestyle result in alterations in cortical field size and number. J Comp Neurol. 518:4491-4512. PMID: PMC3432265
59. Padberg J, Recanzone G, Engle J, Cooke D, Goldring A, and Krubitzer, L (2010) Lesions in posterior parietal area 5 result in rapid behavioral and cortical plasticity. J Neurosci. 30:12918-12935. PMID: PMC3432266
60. Evans KD, Hewett TA, Clayton CJ, Krubitzer LA, and Griffey SM. (2010) Normal Organ Weights, Serum Chemistry, Hematology, and Cecal and Nasopharyngeal Bacterial Cultures in the Gray Short-Tailed Opossum (*Monodelphis domestica*). J Am Assoc Lab Anim Sci. 49:401-6. PMID: PMC2919177
61. Wang WZ, Oeschger FM, Montiel JF, García-Moreno F, Hoerder-Suabedissen A, Krubitzer L, Ek CJ, Saunders NR, Reim K, Villalón A, and Molnár Z (2011) Comparative aspects of subplate zone studied with gene expression in sauropsids and mammals. Cereb Cortex. 21:2187-2203. PMID: 21368089
62. Campi KL, Collins CE, Todd WD, Kaas J, and Krubitzer L (2011) Comparison of Area 17 cellular composition in laboratory and wild-caught rats including diurnal and nocturnal species. Brain, Behav Evol. 77:116-130. PMID: PMC3094678

63. Cooke DF, Padberg J, Zahner T, and Krubitzer L (2012) The functional organization and cortical connections of motor cortex in squirrels. Cereb Cortex. 22:1959-1978. PMID: PMC3412438
64. Seelke AM, Padberg JJ, Disbrow E, Purnell SM, Recanzone G, and Krubitzer L (2012) Topographic maps within Brodmann's area 5 of macaque monkeys. Cereb Cortex 22:1834-1850. PMID: PMC3388892
65. Cooke DF, Goldring AB, Yamayoshi I, Tsourkas P, Recanzone GH, Tiriac A, Pan T, Simon SI, and Krubitzer L (2012) Fabrication of an inexpensive, implantable cooling device for reversible brain deactivation in animals ranging from rodents to primates. J Neurophysiol. 107:3543-3548. PMID: PMC3378414
66. Seelke AM, Dooley JC, and Krubitzer LA (2012) The emergence of somatotopic maps of the body in S1 in rats: the correspondence between functional and anatomical representation. PLoS One. 7(2): e32322. PMID: PMC3290658
67. Dooley JC, Nguyen HM, Seelke AM, and Krubitzer L (2012) Visual acuity in the short-tailed opossum (*Monodelphis domestica*). Neuroscience. 223:124-130. PMID: PMC3708803
68. Seelke AM, Dooley JC, and Krubitzer LA (2013) Differential changes in the cellular composition of the developing marsupial brain. J Comp Neurol. 521:2602-2620. PMID: PMC3934569
69. Dooley JC, Franca JG, Seelke AMH, Cooke DF, Krubitzer LA (2013) A connection to the past: *Monodelphis domestica* provides insight into the organization and connectivity of the brains of early mammals. J Comp Neurol. 521:3877-3897. PMID: PMC3959876
70. Seelke AM, Dooley JC, and Krubitzer L (2014) The cellular composition of the marsupial neocortex. J Comp Neurol. 522:2286-2298. PMID: PMC4090354
71. Seelke AMH, Dooley JC, and Krubitzer LA (2014) Photic preferences of the short-tailed opossum (*Monodelphis domestica*). Neuroscience. 269:273-280. PMID: PMC4020983
72. Cooke DF, Goldring AB, Baldwin MKL, Recanzone GH, Chen A, Pan T, Simon SI, and Krubitzer L (2014) Reversible deactivation of higher order posterior parietal areas I: Alternations of receptive field characteristics in early stages of neocortical processing. J Neurophysiol. 112:2545-2560. PMID: PMC4233270
73. Goldring AB, Cooke DF, Baldwin MKL, Recanzone GH, Gordon AG, Pan T, Simon SI, and Krubitzer L (2014) Reversible deactivation of higher order posterior parietal areas II: Alterations in response properties of neurons in areas 1 and 2. J Neurophysiol. 112: 2545-2560. PMID: PMC4233279.
74. Dooley, J. C., Franca, J. G., Seelke, A. M., Cooke, D. F., & Krubitzer, L. A. (2015). Evolution of mammalian sensorimotor cortex: thalamic projections to parietal cortical areas in *Monodelphis domestica*. Front Neuroanat, 8, 163. PMID: PMC4286717
75. Cooke DF, Stepniewska I, Miller DJ, Kaas JH, Krubitzer L (2015) Reversible deactivation of motor

cortex reveals functional connectivity with posterior parietal cortex in prosimian galago (*Otolemur garnetti*). J Neurosci 35:14406 -14422_ PMID: 26512481

76. Chong SP, Merkle CW, Cooke DF, Zhang T, Radhakrishnan H, Krubitzer L, and Srinivasan VJ (2015) Non-invasive, in vivo imaging of subcortical mouse brain regions with 1.7 μ m Optical Coherence Tomography. Opt Lett. 40:4911-4914 PMID: 26512481
77. Seelke AM, Perkeybile A, Bales K, Krubitzer L (2016) Individual differences in cortical connections of somatosensory cortex are associated with parental rearing style in prairie voles (*Microtus ochrogaster*). J Comp Neurol. 524: 567-577 PMID: 26101098
78. Baldwin MKL, Cooke DF and Krubitzer L (2016) Complex movement maps in motor, somatosensory and posterior parietal cortex in tree shrews. Cerebral Cortex Jan 11, Epub ahead of print, PMID: 26759478.
79. Ramamurthy DL, Krubitzer L (2016) Receptive fields and response characteristics of neurons in the S1 whisker representation of the short-tailed opossum, *Monodelphis domestica*. J Comp Neurol 524: 3587-3613. PMID: 27098555
80. Seelke AMH, Yuan, S-M, Perkeybile AM, Krubitzer L, Bales KL (2016) Early sensory experience can alter the size of cortical fields in prairie voles (*Microtus ochrogaster*). Environmental Epigenetics. Aug 2 [Epub ahead of print] PMID: 27818789
81. Dooley, JC, Donaldson M and Krubitzer L (2016) Cortical plasticity following stripe rearing in the marsupial *Monodelphis domestica*: Neural response properties of V1. J Neurophysiol. Nov 16: [Epub ahead of print] PMID: 27852732
82. Cooke DF, Baldwin M, Padberg J, Cerkevich CM, Kaas JH and Krubitzer L (2017) Corticocortical connections of Brodmann's area 5 support the existence of functionally distinct medial and lateral subdivisions. *Under revision*
83. Baldwin MKL, Cooke DF, Goldring AB, Krubitzer L (2017) What and where is motor cortex? Complex and fine digit movement representations in frontal and parietal cortex. *Under revision*
84. Dooley JC and Krubitzer L (2017) Early loss of vision induces dramatic alterations in cortical and thalamic connection of somatosensory cortex. *Submitted*
85. Ramamurthy DL, Krubitzer LA (2017). Receptive fields and response properties of neurons in the S1 whisker representation of early blind short-tailed opossums. *Submitted*
86. Lutz ND, Krubitzer L, Haverkamp S, Peichl L (2017) The retinal rod pathway in the marsupial *Monodelphis domestica*. *Submitted*

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. PMID: 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. PMID: 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. PMID: 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. PMID: 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. PMID: PMC3182045
12. Krubitzer LA, 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. PMID: 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. PMID: 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. PMID: PMC3793242
15. Krubitzer L and Stolzenberg DS (2014) The evolutionary masquerade: Genetic and epigenetic contributions to the neocortex. Curr Opin Neurobiol. 24C:157-165 PMID: 24492091

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: Neuroanatomy of the Visual Pathways and Their Development (Vision and Visual Dysfunction, Volume 3). 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. PMID: 10929324
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. PMID: 16649713
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, 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. Krubitzer LA and Seelke AMH (2013) Cortical evolution in mammals: The bane and beauty of phenotypic variability. In: In the Light of Evolution. (Striedter, GF, Avise JC, and Ayala FJ eds.) National Academies Press. Chapter 6, pp. 91 – 111
 19. Cooke DF, Goldring A, Recanzone GH, Krubitzer L (2014) 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.
 20. Krubitzer L (2015) Lessons from Evolution. In: The Future of the Brain; Essays by the World's Leading Neuroscientists. (Marcus, G and Freeman, J eds). Princeton University Press pp 186 – 193.
 21. Krubitzer L (2015) Introduction to Plasticity and Learning. In: The Cognitive Neurosciences; Fifth edition (Michael S Gazzaniga and George R Mangun, eds). MIT Press, Cambridge, pp.77-78.
 22. Krubitzer L and Baldwin M (2017) Beyond the homunculus: The discovery of multiple representations within the “primary” somatosensory cortex of primates by Kaas and Colleagues. In: Brain and Behavior: Revisiting the Classic Studies in Behavioral Neuroscience (Bryan Kolb and Ian Whishaw, eds.). Sage Publishing, Los Angeles, CA. Sage, London pp. 33-44
 23. Goldring A and Krubitzer L (2017) Evolution of parietal cortex in mammals: From manipulation to

tool use. In the Evolution of Nervous Systems, Volume 3, Primates (Leah Krubitzer and Jon Kaas, eds.). Elsevier, London. pp. 259-286

24. Prescott Tj and Krubitzer L (2017) Evo-Devo in: Living Machines. Oxford University Press. *In press*.

Abstracts – poster/talk presentations at national and international meetings

1. Huerta MF, Krubitzer LA, and Kaas JH (1985) Connections of the physiologically defined frontal eye field in squirrel monkeys. Society for Neuroscience Abstract 11:422.
2. Krubitzer LA, Sesma MA, and Kaas JH (1985) The somatotopic organization and connections of a third area of somatosensory cortex in rodents. Society for Neuroscience Abstract 11:754.
3. Luethke LE, Krubitzer LA, and Kaas JH (1985) Connections of auditory cortex in squirrels. Society for Neuroscience Abstract 11:33.
4. Luethke LE, Krubitzer LA, and Kaas JH (1985) Response characteristics and connections of auditory cortex in squirrels. Journal of the Acoustical Society of America Supplement1 (78):567.
5. Johanson KL, Krubitzer LA, and Kaas JH (1986) Cortical connections of visual cortical areas 17 and 18 in grey squirrels. Society for Neuroscience Abstract 12:1366.
6. Krubitzer LA and Kaas JH (1986) The second somatosensory area in primates: somatotopic organization, architecture, and connections in marmosets (*Callithrix jacchus*). Society for Neuroscience Abstract 12:798.
7. Krubitzer LA and Kaas JH (1987) The development of somatosensory cortex in primates: The responsiveness and somatotopic organization of area 3b (S-I proper) in newborn marmosets, squirrel monkeys, and macaque monkeys. IBRO Second World Congress of Neuroscience Abstracts.
8. Krubitzer LA and Kaas JH (1987) Connections of modular subdivisions of cortical visual area 17 and 18 with the middle temporal area, MT, in squirrel monkeys. Society for Neuroscience Abstract 13:3.
9. Luethke LE, Krubitzer LA, and Kaas, J.H. (1987) Connections of primary auditory cortex in primates. Society for Neuroscience Abstract 13:327.
10. Krubitzer LA and Kaas JH (1988) Cortical connections of MT and DL in prosimian Galago: Evidence that modular segregation of parallel pathways is a primitive feature in primates. Society for Neuroscience Abstract 14:602.
11. Kaas JH and Krubitzer LA (1988) Subdivisions of visuomotor and visual cortex in the frontal lobe

of primates: the frontal eye field and the target of the middle temporal area. Society for Neuroscience Abstract 14:820.

12. Krubitzer LA and Kaas JH (1989) Striate cortex lesions in monkeys deactivate neurons in the middle temporal visual area (MT). Invest. Ophthalmol. Vis. Sci. (Suppl.), 30:299.
13. Chino Y, Langston A, Kaas JH, and Krubitzer LA (1989) Evidence that retinal lesions induce retinotopic reorganization in visual cortex of adult cats. Invest. Ophthalmol. Vis. Sci. (Suppl.), 30:112.
14. Krubitzer LA and Kaas JH (1989) Modular connections of extrastriate visual area DM with areas 17, 18, and MT in monkeys. Society for Neuroscience Abstract 15:1108.
15. Morel AE, Krubitzer LA, and Kaas JH (1989) Connections of auditory cortex in owl monkeys. Society for Neuroscience Abstract 15:111.
16. Kaas JH and Krubitzer LA (1990) The organization of visual cortex in Old World monkeys: studies on the miniature species, *Miopithecus talapoin*. Invest. Ophthalmol. Vis. Sci. (Suppl.), 31:398.
17. Krubitzer LA and Kaas JH (1990) The organization of visual cortex in Old World talapoin monkeys (*Miopithecus talapoin*). Proc. Australian Neuroscience Society. 1:96.
18. Calford MB and Krubitzer LA (1990) The organization and connections of somatosensory cortex in the megachiropteran bat (*Pteropus poliocephalus*). Society for Neuroscience Abstract 16:228.
19. Kaas JH and Krubitzer LA (1990) Thalamic connections of the first (S-I), second (S-II) and parietal ventral (PV) somatosensory areas in New World marmosets (*Callithrix jacchus*). Society for Neuroscience Abstract 16:226.
20. Krubitzer LA and Calford MB (1990) Cortical connections of the primary visual area, V-I of the grey headed flying fox (*Pteropus poliocephalus*): Evidence for multiple extrastriate cortical fields. Society for Neuroscience Abstract 16:620.
21. Krubitzer LA and Calford MB (1991) The organization and connections of somatosensory areas 3b, SII and PV in the flying fox (*Pteropus poliocephalus*). Proc. Australian Neuroscience Society. 2:33.
22. Calford MB, Krubitzer LA, Tweedale R, and Yin TCT (1991) Immediate reorganization in SI following spinal cord hemisection at T12 in six week old kittens Society for Neuroscience Abstract 17:876.
23. Krubitzer LA (1991) The organization of neocortex in the flying fox: insights into the evolution of complex sensory systems. J. B. Johnston Club.
24. Krubitzer LA, Manger PR, and Pettigrew JD (1991) Organization and connections of

somatosensory cortex in monotremes. Society for Neuroscience Abstract 17:838.

25. Krubitzer LA, Manger PR, and Pettigrew JD (1992) Multiple sensory areas in the platypus and echidna: a new theory of cortical organization in monotremes. Proc. Australian Neuroscience Society. 3:133.
26. Krubitzer LA, Calford MB, and Schmid LM (1992) The modular organization of somatosensory cortex in the flying fox. Proc. Australian Neuroscience Society. 3:134.
27. Krubitzer LA, Tweedale R, Clarey JC, and Calford M (1992) Interhemispheric connections of somatosensory cortex in the flying fox (*Pteropus poliocephalus*). Society for Neuroscience Abstract 18:1544.
28. Finnigan S, Krubitzer LA, Clarey JC, and Calford M (1992) The organization of somatosensory area 3a in the neocortex of the flying fox (*Pteropus poliocephalus*). Society for Neuroscience Abstract 18:1844.
29. Krubitzer LA (1992) Monotremes, flying foxes, and the evolution of neocortex in mammals. Australian Winter Conference on Brain Research.
30. Rosa MGP, Schmid LM, Krubitzer LA, and Pettigrew JD (1992) Axes of reference for the study of the visual system and visual topography of striate cortex (V1) in the megachiropteran bat, *Pteropus*. Society for Neuroscience Abstract 18:296.
31. Finnigan S, Krubitzer LA, Clarey JC, and Calford MB (1993) Area 3a in the flying fox: topographic organization, myeloarchitecture, and cortical connections. Proc. Australasian Neuroscience Society. 4:104.
32. Krubitzer LA, Clarey JC, Tweedale R, and Calford MB (1993) Connections of the corpus callosum in the somatosensory cortex of the flying fox. Proc. Australian Neuroscience Society. 4:105.
33. Krubitzer LA, Clarey JC, Tweedale R, and Calford MB (1993) The organization of lateral somatosensory cortex in mammals: What is the real SII? Robertson Symposium, Sensory Stratagems
34. Manger PR, Krubitzer LA, and Pettigrew JD (1993) Platypus electroreception: new behaviours and thresholds. Proc. Australian Neuroscience Society. 4: 116.
35. Clarey JC, Tweedale R, Krubitzer LA, and Calford M (1993) Effect of focal cooling of area 1 on ipsilateral area 3b responses in flying foxes and marmosets. Society for Neuroscience Abstract 19:1568.
36. Elston G, Krubitzer L, Manger R, Calford M, and Day T (1993) The organization and connections of somatosensory cortex in the Australian marsupial, brush tailed possum. Society for Neuroscience Abstract 19:764.

37. Krubitzer L, Clarey J, Tweedale R, Elston G, and Calford M (1993) The organization of lateral somatosensory cortex in macaque monkey: where is SII? Society for Neuroscience Abstract 19:1705.
38. Krubitzer LA (1994) An overview of cortical organization in mammals: How does evolution build a brain? European Winter Conference on Brain Research.
39. Krubitzer L, Florence S, Jain N, and Kaas J (1994) Thalamocortical relationships in macaque monkeys. European Neuroscience Association. 7:162.
40. Calford MB, Krubitzer LA, Rosa MGP, Clarey JC, Tweedale R, and Brinkman JC (1995) Comparison of long- and short-term denervation of the forelimb on the cortical representation of the body surface in an adult monkey. Proc. Australian Neurosci. Soc. 6:188
41. Krubitzer L, Clarey J, and Nelson J (1995) The organization of somatosensory cortex in the Quoll (*Dasyurus hallucatus*). Proc. Australian Neurosci. Soc. 6:189.
42. Krubitzer L, Nelson J, and Clarey J (1995) The organization of neocortex in the Australian marsupial (*Dasyurus hallucatus*) European Neuroscience Association. 8:79
43. Molnar Z, Krubitzer L, and Blakemore C (1995) Development of the thalamocortical innervation in the marsupial northern native cat (*Dasyurus hallucatus*) European Neuroscience Association. 8:78.
44. Krubitzer LA, Florence SL, Jain N, and Kaas JH (1995) Cortical connections from physiologically defined nuclei of the somatosensory thalamus of macaque monkeys. Society for Neuroscience Abstract 21:1757.
45. Kunzle H, Krubitzer LA, and Kaas JH (1995) Subdivisions of the neocortex in mammals of little brain: the hedgehog tenrec. Society for Neuroscience Abstract 21:154.
46. Huffman KJ, Krubitzer L, Clarey J, and Tweedale R (1996) The topographic organization of area 3a in the marmoset monkey (*Callithrix jacchus*) Society for Neuroscience Abstract 22:107.
47. Manger P, Szymanski MD, Sum M, Sutter M, and Krubitzer LA (1996) Observations on the thalamus of the bottlenose dolphin (*Tursiops truncatus*). Society for Neuroscience Abstract 22:674
48. Slutsky D, Manger P, Huffman KJ, and Krubitzer LA (1996) The somatotopic organization of the parietal medial area in the California ground squirrel (*Spermophilus beecheyii*) Society for Neuroscience Abstract 22:107.
49. Huffman K, Nelson J, and Krubitzer L (1997) The organization of marsupial neocortex. Polish Society for Neuroscience.

50. Huffman KJ, Sum ME, and Krubitzer LA (1997) Thalamic projections to areas 3a and 4 of the marmoset monkey (*Callithrix jacchus*). Society for Neuroscience Abstract 23:574.
51. Disbrow E, Krubitzer L, Poeppel D, Sekihara K, and Rowley H (1997) Investigation of the response to uni- versus bilateral somatosensory input using MEG and fMRI. Society for Neuroscience Abstract 23:575.
52. Manger P, Molnar Z, Slutsky D, and Krubitzer L (1997) Subdivisions of visually responsive regions of the dorsal ventricular ridge of the iguana (*Iguana iguana*). Society for Neuroscience Abstract 23:1031.
53. Krubitzer LA, Huffman KJ, and Sum ME (1997) Cortical connections of primary visual cortex in a metatherian mammal (*Monodelphis domestica*). Society for Neuroscience Abstract 23:2362.
54. Huffman K, Molnar Z, van Dellen A, and Krubitzer L (1998) Formation of cortical maps on a reduced cortical sheet in *Monodelphis domestica*. Forum meeting of European Neuroscience.
55. Turlejski K, Djavadian R, Krubitzer L, and Rychlik L (1998) Cortical areas activated by vibrissae stimulation in the common shrew (*Sorex araneus*). Forum meeting of European Neuroscience.
56. Pobirsky N, Molnar Z, Blakemore C, and Krubitzer L (1998) The Organization of Somatosensory Cortex in the West European Hedgehog (*Erinaceus europaeus*). Forum meeting of European Neuroscience.
57. Disbrow E, Slutsky D, and Krubitzer L (1998) Cortical and thalamic connections of the parietal ventral area (PV) in macaque monkeys. Society for Neuroscience Abstract 24:130.
58. Kahn DM, Huffman KJ, Le C, and Krubitzer LA (1998) Retinal projection in a South American marsupial. Society for Neuroscience Abstract 24:1393.
59. Pobirsky N, Molnar Z, Blakemore C, Krubitzer L (1998) The Organization of Somatosensory Cortex in the West European Hedgehog (*Erinaceus europaeus*). Society for Neuroscience Abstract 24:1125.
60. Huffman K, Molnar Z, van Dellen A, and Krubitzer L (1998) Formation of cortical maps on a reduced cortical sheet. Society for Neuroscience Abstract 24:59.
61. Disbrow EA, Slutsky DA, Roberts TPL, and Krubitzer LA (1999) Functional MRI in the anesthetized macaque monkey: does the BOLD signal reflect underlying electrophysiology? Society for Neuroscience Abstract 25:1166.
62. Huffman K, Slutsky DA, Disbrow EA, Kahn DM, Recanzone GH, and Krubitzer LA (1999) The topographic organization of somatosensory area 3a in the macaque monkey (*Macaca mulatta*). Society for Neuroscience Abstract 25:1166.
63. Kahn DM, Slutsky DA, and Krubitzer, LA (1999) Receptive field organization of primary visual

cortex in a metatherian mammal (*Monodelphis domestica*) Society for Neuroscience Abstract 25:1393.

64. Slutsky DA, Disbrow EA, Roberts TPL, and Krubitzer LA (1999) Functional MRI in the anesthetized macaque monkey: general methods and dose response data. Society for Neuroscience Abstract 25:1166.
65. Disbrow E, Krubitzer L, and Roberts T (2000) Cortical integration of simple somatosensory and visual input. Cognitive Neurosci. Soc. Ann. Meeting Program 38.
66. Hunt D, Slutsky D, and Krubitzer L (2000) The organization of somatosensory cortex in the ferret. Society for Neuroscience Abstract 26: 650.
67. Kahn D, Hunt D, Green M, Molnar Z, Huffman K, Sutter M, Krubitzer L (2000) Retinal projections in the adult *Monodelphis domestica* following unilateral cortical lesions in early postnatal development. Society for Neuroscience Abstract 26: 1699.
68. Bronchti G, Molnar Z, Welker E, Croquelois A, and Krubitzer L (2000) Auditory and somatosensory activity in the "visual" cortex of the anophthalmic mutant mouse. Society for Neuroscience Abstract 26: 2193.
69. Disbrow EA, Huffman KJ, Recanzone G, and Krubitzer LA (2000) The connections of areas 5 and 2 with electrophysiologically identified somatosensory cortical areas in macaque monkeys. Society for Neuroscience Abstract 26: 2082.
70. Huffman KJ, Disbrow EA, Recanzone GH, and Krubitzer LA (2000) Thalamic input to electrophysiologically defined regions in monkey posterior parietal cortex. Society for Neuroscience Abstract 26: 2082.
71. Hinkley LB, Disbrow EA, Roberts TP, and Krubitzer LA (2001) Somatosensory and motor integration in the human sylvian fissure. Society for Neuroscience Abstract. 48:11
72. Disbrow EA, Murray SO, Roberts TP, Litinas ED, Krubitzer LA (2001) Sensory integration in human posterior parietal area 5. Society for Neuroscience Abstract 511.26
73. Kahn D and Krubitzer L (2001) The organization of the neocortex in bilaterally enucleated *Monodelphis domestica* Society for Neuroscience Abstract.
74. Hunt D and Krubitzer L (2001) The organization and connections of sensory neocortex in the mouse. Society for Neuroscience Abstract.
75. Dunn C, Kahn D, and Krubitzer (2001) The development of retinogeniculate connections in *Monodelphis domestica*. Society for Neuroscience Abstract.
76. Punj M, Hunt DL, Krubitzer LA, and Yamoah EN (2002) Cortical and subcortical connections of the inferior colliculus in the congenitally deaf mouse. Society for Neuroscience Abstract 533.10

77. Hunt DL, Litinas ED, Krubitzer LA, and Yamoah EN (2002) Functional organization of the neocortex in the congenitally deaf mouse. Society for Neuroscience Abstract 533.8
78. Litinas ED, Miller N, Hunt DL, Krubitzer LA, Yamoah EN, and Disbrow E (2002) Altered Retino-Collicular projections In Congenitally Deaf Mice. Society for Neuroscience Abstract 533.9
79. Padberg J, Litinas E, Hinkley L, Disbrow E, and Krubitzer L (2002) The anatomical and electrophysiological organization and connections of area 5 in the titi monkey (*Callicebus moloch*). Society for Neuroscience Abstract.
80. Hinkley L, Disbrow E, Buonocore MH, and Krubitzer LA (2002) Somatomotor and Nociceptive Integration in the Human Sylvian Fissure. Society for Neuroscience Abstract.
81. Padberg J, Krubitzer L, Bort A, Mason WA, and Mendoza SP (2003) Visually and nonvisually guided reach behaviors in the New World Titi Monkey (*Callicebus moloch*). Society for Neuroscience Abstract.
82. Grunewald B, Kahn DM and Krubitzer L (2003) Connections of the inferior colliculus in the marsupial, *Monodelphis domestica*. Society for Neuroscience Abstract.
83. Disbrow EA, Krubitzer LA, Henry R, Berman J, Hinkley LB, Nagarajan SS (2003) Cortical connectivity from Diffusion Tensor Imaging (DTI) and magnetoencephalography (MEG) data in macaque monkeys. Society for Neuroscience Abstracts
84. Kahn DM, SJ Long, Rubenstein JLR, and Krubitzer L (2003) Development of cortico-cortical connections in relation to expression patterns of transcription factors in neonatal mice. Society for Neuroscience Abstracts
85. Hunt DL, Krubitzer L, Covey E, and Miller K (2003) The organization of neocortex in the echolocating big brown bat (*Eptesicus fuscus*). Society for Neuroscience Abstract.
86. Hinkley LBN, Krubitzer LA, Lowenthal ME, and Disbrow EA (2004) functional organization of posterior parietal cortex in humans. Society for Neuroscience Abstract.
87. Kahn DM, Long SJ, and Krubitzer L (2004) Aberrant cortical connections in developmentally blind mammals (*Monodelphis domestica*). Society for Neuroscience Abstract.
88. Long SJ, Kahn DM, and Krubitzer L (2004) Cortical expansion and reorganization is induced by FGF2 during early development in *Monodelphis domestica*. Society for Neuroscience abstract.
89. Padberg J, King B, de Vries E, and Krubitzer L (2004) Callosal connections of functionally defined hand representations in cortical areas 3b, 1 and 2 in macaque monkeys (*Macaca mulatta*). Society for Neuroscience Abstract.

90. Campi KL, Karlen SJ, and Krubitzer LA (2005) The organization of neocortex in prairie voles (*Microtus ochrogaster*). Society for Neuroscience Abstract 617.25.
91. Karlen SJ, Grunewald B, and Krubitzer LA (2005) Normal variability of cortical organization in short-tailed opossums (*Monodelphis domestica*). Society for Neuroscience Abstract 617.24.
92. Zhu Z, Nagarajan SS, Zumer JM, Krubitzer LA, Lowenthal ME, Disbrow EA (2005) Rate effect in nonhuman primate somatosensory-evoked fields. Society for Neuroscience Abstract 15.5.
93. Padberg J, Cooke DF, Krubitzer LA (2006) Cortical and callosal connections of motor cortex in California ground squirrel (*Spermophilus beecheyi*). Society for Neuroscience Abstracts 806.15.
94. Padberg J, Cooke DF, Krubitzer LA, Soares JGM, Franca JG, Rosa MG, Fiorani M Jr. and Gattass R (2006) Functional organization of somatosensory cortex in the new world cebus monkey (*Cebus apella*). Society for Neuroscience Abstracts 804.18
95. Padberg J, Cooke DF, Rajan AT, Krubitzer LA, Soares JGM, Franca JG, Rosa MGP, Fiorani M, and Gattass, R (2007) Corticocortical connections of areas 3b, 1, 2, and 5 in the New World cebus monkey (*Cebus appella*). Society for Neuroscience Abstracts 620.3.
96. Cooke DF, Padberg J, Zahner T, Krubitzer LA (2007) Thalamocortical connections of motor and sensorimotor cortical fields in California ground squirrel (*Spermophilus beecheyi*). Society for Neuroscience Abstracts 193.18.
97. Campi KL, Chau MJ, and Krubitzer LA (2007) Connections of Auditory and Somatosensory Cortex in the Prairie Vole (*Microtus ochrogaster*). Society for Neuroscience Abstracts 614.19.
98. Del Cid B, Karlen SJ, and Krubitzer LA (2007) Effects of bilateral enucleation on the volume of lateral geniculate nucleus in short-tailed opossums (*Monodelphis domestica*). Society for Neuroscience Abstracts 614.21.
99. Hunt DL, Ghassemi E, Campi KL, Burns ME, and Krubitzer LA (2007) The effects of congenital visual impairment on visual sensitivity and acuity. Society for Neuroscience Abstracts 614.14.
100. Larsen DD, Luu JD, Burns ME, and Krubitzer LA (2007) Cortical organization and connections in mice with congenital visual impairment. Society for Neuroscience Abstracts 614.18.
101. Cooke DF, Padberg J, Zahner T, Grunewald B, and Krubitzer L (2008) Complex movements evoked by microstimulation of motor cortex in the California ground squirrel (*Spermophilus beecheyi*). Society for Neuroscience Abstracts 277.18.
102. Franca JG, Padberg J, Bittencourt-Navarrete RE, Soares JG, Amancio GJO, Cooke DF, Rajan AT, Fiorani M, Gattass R, and Krubitzer L (2008) Thalamocortical connections of areas 1, 2, and 5 in the New World cebus monkey (*Cebus apella*). Society for Neuroscience Abstracts 370.1.

103. Padberg JJ, Cooke DF, Rajan AT, Furr TN, Engle JR, Recanzone GH, and Krubitzer L (2008) Effects of area 5 lesions upon visually and nonvisually guided reaching and grasping behaviors in the Old World Rhesus Monkey (*Macaca mulatta*). Society for Neuroscience Abstracts 177.18.
104. Cooke DF, Tiriack A, Yamayoshi I, Padberg J, Pan T, Recanzone GH, Tsourkas P, Simon SI, and Krubitzer L (2009) Fabrication of a lightweight and inexpensive implantable cooling device for reversible brain deactivation in animals ranging from rodents to primates. Society for Neuroscience Abstracts 105.13.
105. Seelke AMH and Krubitzer L (2009) Developmental organization of somatosensory cortex in infant rats. Society for Neuroscience Abstracts 83.21.
106. Campi K and Krubitzer L (2009) A comparative study of visual cortex in diurnal and nocturnal rodents. Society for Neuroscience Abstracts 83.20.
107. Campi KL, Collins CC, and Krubitzer LA (2010) A comparative study of the cellular composition of cortical area 17 in diurnal and nocturnal rodents. Society for Neuroscience Abstracts 690.3.
108. Seelke AMH, Cooke DF, and Krubitzer LA (2010) Development of functional and anatomical maps of the body in the somatosensory cortex of infant rats. Society for Neuroscience Abstracts 285.10.
109. Luu JD and Krubitzer L (2010) Visual acuity of the adult short-tailed opossum (*Monodelphis domestica*). Society for Neuroscience Abstracts 308.10.
110. Cooke DF, Goldring A, Weatherford CB, Yamayoshi I, Recanzone GH, Simon SI, and Krubitzer L (2011) Reversible brain deactivation by focal cooling in an awake behaving monkey: Effects of deactivation of area 2, area 5, and area 7b on unimanual and bimanual reaching tasks. Society for Neuroscience Abstracts 82.02.
111. Goldring A, Cooke DF, Weatherford CB, Yamayoshi I, Pan T, Recanzone GH, Tsourkas P, Simon SI, and Krubitzer L (2011) Reversible brain deactivation by focal cooling in an awake behaving monkey: Materials and methods. Society for Neuroscience Abstracts 82.01.
112. Dooley JC, Luu J, Grunewald B, and Krubitzer LA (2011) Tactile discrimination abilities in short-tailed opossums (*Monodelphis domestica*). Society for Neuroscience Abstracts 517.13.
113. Goldring AB, Cooke DF, Weatherford CB*, Recanzone GH, Pan T, Simon SI, and Krubitzer L (2012) Reversible deactivation of motor cortex and posterior parietal cortex in macaques by cooling induces shifts in receptive field size and location in anterior parietal neurons. Society for Neuroscience Abstracts. 883.04.
114. Grunewald R, Seelke AMH, Perkeybile A, Cooke DF, Bales KL, and Krubitzer L (2012) Effects of early parenting experience on cortical connections in prairie voles (*Microtus ochrogaster*). Society for Neuroscience Abstracts. 483.24.

115. Seelke AMH, Dooley JC, and Krubitzer LA (2012) Differential Distribution of Neurons within the Neocortex of Short-Tailed Opossums (*Monodelphis domestica*). *Society for Neuroscience Abstracts* 894.04
116. Dooley JC, Nguyen HM, Seelke AMH, and Krubitzer LA (2012) Visual response characteristics of primary visual cortex in short-tailed opossums (*Monodelphis domestica*). *Society for Neuroscience Abstracts* 571.27
117. Baldwin MKL, Nguyen HM, Sekizaki D, and Krubitzer LA (2013) Subcortical connections of the superior colliculus and VGLUT2 staining in short-tailed opossums (*Monodelphis domestica*). *Society for Neuroscience Abstracts* 173.07.
118. Cooke DF, Padberg J, Cerkevich CM, Kaas JH, and Krubitzer L (2013) Corticocortical connections of area 5 in macaque monkeys support the existence of functionally distinct medial and lateral regions. *Society for Neuroscience Abstracts* 551.09.
119. Dooley JC and Krubitzer LA (2013) Changes in cortical connectivity of primary somatosensory cortex following early loss of vision in the short-tailed opossum (*Monodelphis domestica*). *Society for Neuroscience Abstracts* 70.05.
120. Baldwin MK, Cooke DF, Gordon A, and Krubitzer LA (2014) Revealing functional organization of frontoparietal networks in tree shrews (*Tupaia belangeri*) using reversible inactivation. *Society for Neuroscience Abstracts* 446.02.
121. Cooke DF, Stepniewska I, Miller DJ, Kaas JH, and Krubitzer L (2014) Reversible deactivation of motor cortex reveals functional connectivity with posterior parietal cortex in the prosimian galago (*Otolemur garnetti*). *Society for Neuroscience Abstracts* 432.12.
122. Dooley JC and Krubitzer LA (2014) Changes in the functional organization of the neocortex following lesions to visual cortex early in development. *Society for Neuroscience Abstracts* 493.09.
123. Dooley JC and Krubitzer LA (2014) Effects of early, pervasive exposure to stripes on visual acuity and visual response properties in the short-tailed opossum. *Society for Neuroscience Abstracts* 819.24.
124. Ramamurthy DL, Gordon AG, and Krubitzer LA (2014) Functional topography and tuning properties of neurons in the S1 whisker representation of the short tailed opossum, *Monodelphis domestica*. *Society for Neuroscience Abstracts* 440.14.
125. Cooke DF, Goldring AB, Baldwin MKL, Donaldson MS, Krubitzer L (2015) Reversible deactivation of motor cortex reveals functional connectivity with anterior and posterior parietal cortex in Old World monkeys (*Macaca mulatta*). *Society for Neuroscience Abstracts* 342.14.
126. Baldwin MK, Donaldson MS, Krubitzer LA (2015) Subcortical connections of the posterior parietal cortex in tree shrews (*Tupaia belangeri*). *Society for Neuroscience Abstracts* 429.02.

127. Dooley JC, Donaldson MS, and Krubitzer LA (2015) Changes in thalamic connectivity of primary somatosensory cortex resulting from early bilateral enucleations in the short-tailed opossum (*Monodelphis domestica*). Society for Neuroscience Abstracts 290.09.
128. Ramamurthy DL, Krubitzer LA (2015). Receptive fields and response characteristics of neurons in the S1 whisker representation of the short-tailed opossum, *Monodelphis domestica*. Society for Neuroscience Abstracts 516.06.
129. Chong SP, Merkle C, Zhang T, Radhakrishnan H, Cooke DF, Krubitzer L, Srinivasan VJ (2016) Non-invasive, in vivo imaging of subcortical mouse brain regions with 1.7 μm Optical Coherence Tomography. SPIE/BIOS Photonics West: Optical Coherence Tomography and Coherence Domain Optical Methods in Biomedicine XIX.
130. Baldwin MKL, Cooke DF, Goldring AB, Krubitzer LA (2016). Intracortical microstimulation maps of motor, somatosensory, and posterior parietal cortex in macaque monkeys. Society for Neuroscience Abstracts 56.17.
131. Cooke DF, Baldwin MKL, Donaldson MS, Helton J, Stolzenberg DS, Krubitzer LA (2016) Rats gone wild: How seminatural rearing of laboratory animals shapes behavioral development and alters somatosensory and motor cortex organization. Society for Neuroscience Abstracts 807.12.
132. Foreman K, Ramamurthy D, Weller C, Krubitzer LA, Stolzenberg DS (2016) Genetic and epigenetic regulation of the cortical phenotype: The effects of early bilateral enucleation on epigenetic and genetic modifications in developing neocortex. Society for Neuroscience Abstracts 678.06.
133. Ramamurthy DL, Krubitzer LA (2016). Receptive fields and response properties of neurons in the S1 whisker representation of early blind short-tailed opossums. Society for Neuroscience Abstracts 709.06.