

**Curriculum Vitae**  
Kathleen S. Rockland, Ph.D.  
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**ACADEMIC TRAINING:**

1979 Ph.D. Boston University, Boston, MA (Anatomy)  
1976 M.A. Boston University, Boston, MA (Anatomy)  
1972 M.A. Princeton University, Princeton, NJ (Romance Languages)  
1969 B.A. Wellesley College, Wellesley, MA (French)

**POSTDOCTORAL TRAINING:**

1980-1982 Research Associate, Dept. of Ophthalmology, Med. Univ. of S.C., Charleston, S.C.  
1979-1980 Research Fellow, Dept. of Neurology, Children's Hosp. Med. Center and Harvard Med. Sch., Boston, MA  
1978-1979 Postdoctoral Fellow, Div. of Biology, Caltech, Pasadena, CA

**ACADEMIC APPOINTMENTS:**

2012- Research Professor, Dept. Anatomy & Neurobiology, Boston Univ. Sch. Medicine  
2012- Research Affiliate, Brain and Cognitive Science, MIT, Boston, MA  
2009-2016 Visiting Professor, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY  
2009-2012 Senior RIKEN Research Scholar, RIKEN-MIT Center for Neural Circuit Genetics, Picower Institute, MIT, Cambridge, MA  
2008-2009 Adjunct Professor, Nat'l. Inst. for Physiological Sciences (NIPS), Okazaki, Japan  
2006-2008 Adjunct Professor, Saitama University (Grad. Sch. Of Science and Engineering), Saitama, Japan  
2000-2010 Lab Head, Brain Science Inst., RIKEN, Wako, JP (Adjunct: Oct. 2009-April 2010)  
1996-1999 Director, Neuroscience Interdisciplinary Grad. Program, Univ. of Iowa, Iowa City, IA  
2000- Adjunct Professor, Dept. of Neurology, Univ. of Iowa  
1994-2000 Professor, Dept. Neurology, Univ. of Iowa, Iowa City, IA  
1992-2000 Member, Program in Neuroscience, Univ. of Iowa, Iowa City, IA  
1991-1994 Assoc. Professor, Dept. of Neurology and Carver Investigator in Neuroscience, Univ. of Iowa, Iowa City, IA  
1988-1991 Assist. Prof. Dept. of Anatomy, Boston Univ., Boston, MA (Adjunct, 1983-1988)  
1986-1988 Associate Scientist, Schepens Eye Research Inst., Boston, MA  
1983-1986 Research Fellow, Dept. of Neurology, MGH and Harvard Medical Sch., Boston, MA  
1983-1986 Senior Scientist, Southard Lab. of Neuropath., E.K. Shriver Center, Waltham, MA

**DEPARTMENTAL AND UNIVERSITY COMMITTEES:**

2014- Member, Graduate Student Qualifying Exam, Dept. Anatomy & Neurobiology, BUSM  
2001, 2004 Member, Summer School Committee, RIKEN BSI  
1996-1999 Neuroscience Graduate Admissions Committee (Univ. of Iowa)  
1996-1999 Neuroscience Graduate Qualifying Exam Committee (Univ. of Iowa)  
1996-1999 Neuroscience Graduate Curriculum Committee (Univ. of Iowa)  
1994-1996 Animal Care Committee (Univ. of Iowa)

**TEACHING EXPERIENCE AND RESPONSIBILITIES:**

2018 Scientific writing (instructor)  
2018 AN 724 Advanced Human Neuroanatomy (Course Director) 2018  
2014, 2016 AN 724 Advanced Human Neuroanatomy (Course co-Director)

2013-2018	Limbic System lecture (in Basic Neuroscience Survey GMS BN777)
2012	Sheep Brain Dissection “Discover Freshman Pre-orientation Program” (MIT)
2012	“Educational Unit”: Navigating the myelin-stained mouse brain, <a href="http://www.brainarchitecture.org/educational-units">http://www.brainarchitecture.org/educational-units</a> (Mitra Lab website, CSHL)
2010, 2011	CSHL Workshop: Circuits and Connectivity (co-organizer with Partha Mitra and Menno Witter), lectures and practicum (survival surgery)
2009	Guest lecturer 9.691 (MIT) “Introduction to Connectomics” (Sebastian Seung)
2008, 2009	Graduate lectures, NIPS (Okazaki, Japan)
2006, 2007	BSI Tutorial
2006, 2007	RIKEN-BSI Retreat, neuroanatomy overview
2007, 2008	Saitama Univ. lecture series for undergraduates (5 sessions)
2000, 2007	RIKEN BSI Summer School
1998, 1999	Topics in Systems Neuroscience (132:335), and Neuroscience Seminar (132:265), Univ. of Iowa
1992-1994, 1997-1999	Medical Neuroscience Lecturer and Lab Instructor, Univ. of Iowa
1989-90	Neuroscience and Histology Lab Instructor, Dept. of Anatomy, BUSM
1983-84	Neuroscience Lab Instructor, Boston Univ. Sch. Medicine
1980-83	Neuroanatomy Instructor, Medical Univ. of South Carolina
1977-78	Neuroscience Lab Instructor, Boston Univ. Sch. Medicine

#### MAJOR MENTORING ACTIVITIES:

##### *Postdoctoral Fellows and Research Associates supervised (RIKEN BSI and, pre-2000, Univ. Iowa)*

2016-2017	Christina Tognoni, Ph.D.
2009 (5/09-8/09)	Michele Pignatelli: Visiting Fellow (EPFL); now Research Associate, Tonegawa Lab (Picower Inst., MIT)
2007-2009	Tohru Kurotani: Postdoctoral Fellow, now Senior Scientist, ERATO (JP), Dr. Okanoya team
2007-2009	Atsuko Miyashita: Postdoctoral Fellow, now Assist. Prof., Yokohama (JP)
2007-2008	Elena Borra: predoctoral intern (Univ. Parma), now Assoc. Prof. Univ. of Parma
2004-2007	Ryohei Tomioka: Instructor, Kumamoto Univ. (JP)
2003-2006	Kosuke Imura: Assistant Prof., Yokohama (JP)
2003-2007	Toshio Miyashita: Instructor, Nat'l. Inst. Physiological Science
2001-2008	Noritaka Ichinohe: Research Scientist, now Director, Dept. of Ultrastructural Research, National Institute of Neuroscience, Kodaira, Japan
2000-2004	Hisayuki Ojima: Research Scientist, now Senior Scientist, Tokyo Medical and Dental Univ., Graduate School of Medical and Dental Sciences (JP)
2000-2004	Yongmei Zhong: Professor, Fudan University, Shanghai
1999-2002	Hongbin Li: Postdoctoral Fellow (and unknown)
1998-2000	Song-Lin Ding: Postdoctoral Fellow, now Staff Member, Allen Brain Inst., Seattle
1996-1998	Bryan Wellman: Neurosurgery Resident, now private practice
1993-1994	Changjun Shi: Postdoctoral Fellow (and unknown)

##### *Master Students (MAMS)*

2015 - 2016 Amy Zhang

2015 - 2016 Daniel Lee

##### *Summer Research (2015)*

Gregory Lorraine (2<sup>nd</sup> year Med. Student)

##### *Thesis committees*

2016 Member, Thesis Committee: Ruiyi Ren; Chris Lim (Anatomy&Neurobiology, BUSM)

2014 Member, Thesis Committee: Shaun Patel; Teresa Guillamon-Vivancos (Anatomy&Neurobiology, BUSM)

2014 External member: Parul Kaushal (All India Institute of Medical Sciences)  
 2012 (April) External member: Vadim Pinskiy, Dept. Biomedical Engineering, SUNY at Stonybrook  
 2011 (Dec.) External Member: Zi Wei Zhang, School of Optometry, Univ. of Montreal  
 1992-1999 University of Iowa: Sonia Witte (Dept. of Physiology), Ann Nicolson (Dept. of Biology), Ai Li (Neuroscience), Yonhua Tai (Anatomy and Cell Biol.), Jean Augustinack (Anatomy and Cell Biol.), Josef Parvizi (Neuroscience)

*Undergraduate Research Supervisor:*

2017 2 BU undergraduates  
 2000-2009 9 summer interns (2 months term) RIKEN Brain Science Institute  
 1991-1999 12 interns at University of Iowa (NSF Summer Fellows; and Honors Research)

**MAJOR ADMINISTRATIVE RESPONSIBILITIES:**

2017- Member, Scientific Advisory Board (European Human Brain Project)  
 2017-2018 Member, Scientific Advisory Board (Max Planck Institute, Tubingen)  
 2014-2014 Member, External Advisory Committee, Human Connectome Project (MGH)  
 2007 Chair, Summer School Committee, RIKEN BSI  
 1996-1999 Director, Neuroscience Interdisciplinary Graduate Program, Univ. of Iowa  
 1994-1996 Animal Care Committee, member and Chair (1996), Univ. of Iowa

**Reviewer for Grant Agencies (by mail):** Alzheimer's Association, French National Research Agency (ANR), Human Frontier, NSF, The Wellcome Trust

**Reviewer for Journals:** Brain Structure and Function, Cerebral Cortex, European Journal of Neuroscience, Journal of Comparative Neurology, Journal of Neuroscience, Neuroscience, Neuron, Neuroimage, PLOS One, Frontiers in Neuroscience  
 2011 Podcast interview, by Paul Verschure (Cognitive Science Network)  
<http://itunes.apple.com/us/podcast/convergent-science-network/id396952186>  
 2003-2009 Faculty of 1000

**PROFESSIONAL SOCIETIES: MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS**

SOCIETY FOR NEUROSCIENCE

**EDITORIAL BOARDS:**

2014-2015 Editor ("Axons and Brain Architecture," Elsevier, 2016)  
 2012- Associate Editor, Journal Comparative Neurology  
 2002-12 Editorial Board, Journal Comparative Neurology  
 2008- Associate Editor, Frontiers in Neuroanatomy  
 2006-09 Editorial Board, Neuroscience Research  
 1996-99 Editorial Board, Visual Neuroscience  
 1996 Co-editor (with Drs. J. Kaas and A. Peters): "Extrastriate Visual Cortex of Primates; Cerebral Cortex Volume 12 (Plenum Press, New York)  
 1994 Co-editor (with Dr. A. Peters): "Primary Visual Cortex of Primates;" Cerebral Cortex Volume 10 (Plenum Press, New York)  
 1993 Guest editor, Cerebral Cortex 3(5) ("Local Cortical Circuits," Oxford Univ. Press)

**Study Sections**

2013 NSF Career Panel (P140092)

1995-1999	Member, Cognitive Functional Neuroscience (NIMH); reconstituted as Integrative, Functional, and Cognitive Neuroscience (IFCN-8)
1998-1999	Chairperson, IFCN- 8
1996	Member, SEP (NIMH): “Innovative Approaches to Microscopic Tract-Tracing”
1994-1996	NSF Panel Member (Sensory Systems)

### Concluded Support:

2015-2018	R21 MH106796 “Visualizing Cortical Microstructures by Optical Coherence Tomography (OCT)”
2015-2018	R21 MH107456 “Regional Diversity of Cortical White Matter Neurons in Adult and Infant Rhesus Monkey”

### Pending Support:

2019-2021	R21 AG060300 “Molecular-anatomic mapping of AD-related changes in white matter neuron populations”
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### Past Other Support:

(pre-2000 budget amounts are only partially accessible)

2014-2016	1U01 MH105971 “Towards Quantitative Cell-type Based Characterization of the Whole Mouse Brain” (PI: Pavel Osten, CSHL)
2009-2012	PI: Susumu Tonegawa, RIKEN-MIT Center for Neural Circuit Genetics
2000-2010	PI: Kathleen Rockland, annual budget, RIKEN Brain Science Institute (estimate: \$1 million per year)
1991-2001	NS19632, PI: Antonio Damasio, Anatomical Substrates of Complex Behavior (Project 6; Rockland and Van Hoesen, NINDS)
1999-2000	T32NS007421, PI: Kathleen Rockland Neuroscience Training Program (transferred to Dr. Dan Tranel, because of move to Japan)
1995-2001	R01MH053598, PI: Kathleen Rockland, Microcircuitry of Pulvinar and Neocortical Connections (direct costs, 5 years: \$576,321 (as per summary statement); 1999: \$140,847)
1995-2000	NSF IBN 9421970, PI: Kathleen Rockland, Microcircuitry of Cortical Networks (\$265,000: total amount)
1991-1994	Roy J. Carver Charitable Trust, PI: Kathleen Rockland
1986-1995	R01EY007058, PI: Kathleen Rockland, Periodic Extrinsic Connections in Visual Cortex (direct costs, 4 years: \$545,473; 1993: \$138,291)
1983-1986	R01EY007058, PI: Kathleen Rockland, Periodic Intrinsic Connections in Visual Cortex
1980-1982	PI: J.S. Lund, South Carolina State Research Funds
1978-1980	NRSA 7F32 EY05323 (NIH postdoctoral award), Caltech

### Invited Lectures and Presentations (selected)

2009	German-Japanese Workshop: Computational and Systems Neurosci. (Berlin)
2010 (April)	Stanford Inst. for Neuro-Innovation and Translational Neurosciences
2011 (May)	Computations in Neocortical Circuits (Janelia Farm, May 2011)
2011 (July)	Network Architecture of Brain Structure and Function (KITP, July 2011)
2011 (Dec.)	Sch. of Optometry, Univ. of Montreal
2012 (August)	Parietal Cortex “Meet-in” CSHL
2013 (February)	European Winter Conference in Brain Research (Brides-les-Bains)
2013 (Sept.)	International Sym. on non-Human Primate Cognition, Behavior, Evolution (Ouro-Prieto, Brazil)
2014 (April)	Computational and Systems Neuroscience, Juelich (Germany)
2017 (June)	International Sch. Neuroscience Workshop (Erice, Sicily), co-organizer with Dr. Elena Borra (Univ. of Parma)

- 2018 (February) Gordon Conference : Thalamocortical Interactions  
 2018 (June) What Makes Us Human : at: [https://www.youtube.com/playlist?list=PLYq7WW565SZh-1TicNwvHpMq4ypXZ\\_2m](https://www.youtube.com/playlist?list=PLYq7WW565SZh-1TicNwvHpMq4ypXZ_2m)  
 2018 (October) Banbury Conference (Why Does the Neocortex Have Layers and Columns?)

**Bibliography ORIGINAL, PEER REVIEWED ARTICLES (SELECTED FROM 114 PUBMED)**

[HTTP://WWW.NCBI.NLM.NIH.GOV/PUBMED/?TERM=ROCKLAND+K](http://www.ncbi.nlm.nih.gov/pubmed/?term=rockland+k)

- Rockland, K.S.** Axon collaterals and brain states. *Frontiers Syst. Neurosci.* 2018; 12:32.
- Rockland, K.S.** Corticothalamic axon morphologies and network architecture. *Eur. J. Neurosci.* 2018 Epub ahead of print.
- Rockland, K.S.** What do we know about laminar connectivity? *Neuroimage* 2017, Epub ahead of print.
- Mortazavi, F., Wang, X., Rosene, D.L., and **Rockland, K.S.** White matter neurons in young adult and aged rhesus monkey. *Frontiers Neuroanatomy* 2016; 10:15.
- Rockland, K.S.** About Connections. *Frontiers Neuroanatomy* 2015; 9:61.
- Kim, Y., Venkataraju, K.U., Pradhan, K., Mende, C., Taranda, J., Turaga, S.C., Arganda-Carreras, I., Ng, L., Hawrylycz, M.J., **Rockland, K.S.**, Seung, H.S., and Osten, P. Mapping social behavior-induced brain activation at cellular resolution in the mouse. *Cell Rep.* 2015; 10: 292-305.
- Rockland, K.S.** Zinc-positive and zinc-negative connections of the claustrum. *Frontiers Syst. Neurosci.* 2014; 8: 37.
- Watakabe, A., Ohsawa, S., Ichinohe, N., **Rockland, K.S.**, and Yamamori, T. Characterization of claustral neurons by comparative gene expression profiling and dye-injection analyses. *Frontiers Syst. Neurosci.* 2014; 8: 98.
- Rockland, K.S.** Zinc-positive and zinc-negative connections of the claustrum. *Frontiers. Syst. Neurosci.* 2014; 8:37.
- Rockland, K.S.** Collateral branching of long-distance cortical projections in monkey. *Journal Comparative Neurology* 2013; 521: 4112-2123.
- Kurotani, T., Miyashita, T., Wintzer, M., Konishi, T., Sakai, K., Ichinohe, N., and **Rockland, K.S.** Pyramidal neurons in the superficial layers of rat retrosplenial cortex exhibit a late-spiking firing property. *Brain Structure Function* 2013; 218: 239-254.
- Laramee, M.E., **Rockland, K.S.**, Prince, S., Bronchti, G. and Boire, D. Principal component and cluster analysis of layer V pyramidal cells in visual and non-visual cortical areas projecting to the primary visual cortex of the mouse. *Cerebral Cortex* 2013; 23: 714-728.
- Ichinohe, I., Borra, E., and **Rockland, K.S.** Distinct feedforward and intrinsic neurons in posterior inferotemporal cortex revealed by in vivo connection imaging. *Sci. Rep.* 2012; 2:934.
- Rockland, K.S.** and Nayyar, N. Association of type 1 neurons positive for NADPH-diaphorase with blood vessels in the adult monkey corpus callosum. *Frontiers Neural Circuits* 2012; 6:4.
- Defelipe, J., Markram, H., and **Rockland, K.S.** The Neocortical column. *Frontiers Neuroanatomy* 2012; 6:22.
- Papp, E., Borhegyi, Z., Tomioka, R., **Rockland, K.S.**, Mody, I. and Freund, T.F. Glutamatergic input from specific sources influences the nucleus accumbens-ventral pallidum information flow. *Brain Structure Function* 2012; 217: 37-48.
- Watakabe, A., Hirokawa, J., Ichinohe, N., Ohsawa, S., Kaneko, T., **Rockland, K.S.**, and Yamamori, T. Area-specific substratification of deep layer neurons in the rat cortex. *Journal Comparative Neurology* 2012; 520: 3553-3573.
- Laramee, M.E., Kurotani, T., **Rockland, K.S.**, Bronchti, G. and Boire, D. Indirect pathway between the primary auditory and visual cortices through layer V pyramidal neurons in V2L in mouse and the effects of bilateral enucleation. *European Journal Neuroscience* 2011; 34: 65-78.
- Borra, E. and **Rockland, K.S.** Projections to early visual areas V1 and V2 in the calcarine fissure from parietal association areas in the macaque. *Frontiers Neuroanatomy* 2011; 5:35.

- Banno, T., Ichinohe, N., **Rockland, K.S.** and Komatsu, H. Reciprocal connectivity of identified color-processing modules in the monkey inferior temporal cortex. *Cerebral Cortex* 2011; 21: 1295-1310.
- Clancy, B., DeFelipe, J., Espinosa, A., Fairén, A., Jino, S., Kanold, P., Luhmann, H.J., **Rockland, K.S.**, Tamamaki, N. and Yan, X.X. Cortical GABAergic neurons: Stretching it. Remarks, main conclusions, and discussion. *Frontiers Neuroanatomy* 2010; 4:7.
- DeFelipe, J., Fields, R.D., Hof, P.R., Höistad, M., Kostovic, I., Meyer, G., and **Rockland, K.S.** Cortical white matter: beyond the pale. Remarks, main conclusions, and discussion. *Frontiers Neuroanatomy* 2010; 4:4.
- Ichinohe, N., Matsushita, A., Ohta, K. and **Rockland, K.S.** Pathway-specific utilization of synaptic zinc in the macaque ventral visual cortical areas. *Cerebral Cortex* 20:2818-2831.
- Miyashita, T., Wintzer, M., Kurotani, T., Konishi, T., Ichinohe, N. and **Rockland, K.S.** Neurotrophin-3 is involved in the formation of apical dendritic bundles in cortical layer 2 of the rat. *Cerebral Cortex*. 2010; 20:229-240.
- Fuentealba, P., Klausberger, T., Karayannis, T., Suen, W.Y., Huck, J., Tomioka, R., **Rockland, K.**, Capogna, M., Studer, M., Morales, M. and Somogyi, P. Expression of COUP-TFII nuclear receptor in restricted GABAergic neuronal populations in the adult rat hippocampus. *Journal Neuroscience* 2010; 30:1595-1609.
- Rockland, K.S.** Five points on columns. *Frontiers Neuroanatomy* 2010; 4:22.
- Atanur S.S., Birol I., Guryev V., Hirst M., Hummel O., Morrissey C., Behmoaras J., Fernandez-Suarez, X.M., Johnson, M.D., McLaren, W.M., Patone, G., Petretto, E., Plessy, C., **Rockland, K.S.**, Rockland, C., Saar, K., Zhao, Y., Carninci, P., Flicek, P., Kurtz, T., Cuppen, E., Pravenec, M., Hubner, N., Jones, S.J., Birney, E., and Aitman, T.J. The genome sequence of the spontaneously hypertensive rat: Analysis and functional significance. *Genome Research* 2010; 20:791-803.
- Borra, E., Ichinohe, N., Sato, T., Tanifuji, M., and **Rockland, K.S.** Cortical connections to area TE in monkey: hybrid modular and distributed organization. *Cerebral Cortex* 2010; 20: 257-270.
- Fuentealba, P., Tomioka, R., Dalezios, Y., Marton, L.F., Studer, M., **Rockland, K.**, Klausberger, T., and Somogyi, P. Rhythmically active enkephalin-expressing GABAergic cells in the CA1 area of the hippocampus project to the subiculum and preferentially innervate interneurons. *Journal Neuroscience* 2008; 28: 10017-10022.
- Watakabe, A., Ichinohe, N., Ohsawa, S., Hashikawa, T., Komatsu, Y., **Rockland, K.S.** and Yamamori, T. Comparative analysis of layer-specific genes in mammalian neocortex. *Cerebral Cortex* 2007; 17: 1918-1933.
- Miyashita, T. and **Rockland, K.S.** GABAergic projections from the hippocampus to the retrosplenial cortex in the rat. *European Journal Neuroscience* 2007; 26: 1193-1204.
- Tomioka, R. and **Rockland, K.S.** Long-distance corticocortical GABAergic neurons in the adult monkey white and gray matter. *Journal Comparative Neurology* 2007; 505: 526-538.
- Miyashita, T., Ichinohe, N. and **Rockland, K.S.** Differential modes of termination of amygdalothalamic and amygdalocortical projections in the monkey. *Journal Comparative Neurology* 2007; 502:309-324.
- Tomioka, R. and **Rockland, K.S.** Improved Golgi-like visualization in retrogradely projecting neurons, after EGFP-adenovirus infection in adult rat and monkey. *Journal Histochemistry Cytochemistry* 2006; 54: 523-535.
- Miro-Bernie, N., Ichinohe, N., Perez-Clausell, J. and **Rockland, K.S.** Zinc-rich transient vertical modules in the rat retrosplenial cortex during postnatal development. *Neuroscience* 2006; 138:523-535.
- Zhong, Y.M., Yukie, M. and **Rockland, K.S.** Distinctive morphology of hippocampal CA1 terminations in orbital and medial frontal cortex in macaque monkeys. *Experimental Brain Research* 2006; 169:549-553.

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- Imura, K. and **Rockland, K.S.** Long-range interneurons within the medial pulvinar nucleus of macaque monkey. *Journal Comparative Neurology* 2006; 498: 649-666.
- Ichinohe, N. and **Rockland, K.S.** Distribution of synaptic zinc in the macaque amygdala. *Journal Comparative Neurology* 2005; 489:135-147.
- Ichinohe, N. and **Rockland, K.S.** Zinc-enriched amygdalo- and hippocampo-cortical connections to the inferotemporal cortices in macaque monkey. *Neuroscience Research* 2005; 53:57-68.
- Miyashita, T., Nishimura-Akiyoshi, S., Itohara, S. and **Rockland, K.S.** (2005) Strong expression of *NETRIN-G2* in the monkey claustrum. *Neuroscience* 2005; 136:487-496.
- Zhong, Y.M., Yukie, M. and **Rockland, K.S.** Direct projections from CA1 to the superior temporal sulcus in the monkey, revealed by single axon analysis. *Brain Research* 2005; 1035:211-214.
- Ichinohe, N. and **Rockland, K.S.** Region specific micromodularity in the uppermost layers in primate cerebral cortex. *Cerebral Cortex* 2004; 14: 1173-1184.
- Ichinohe, N., Watakabe, A., Miyashita, T., Yamamori, T., Hashikawa, T. and **Rockland, K.S.** A voltage gated potassium channel, Kv3.1b is expressed by a subpopulation of large pyramidal neurons in layer 5 of the macaque monkey cortex. *Neuroscience* 2004; 129:179-185.
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- Rockland, K.S.** and Ojima, H. Multimodal convergence in calcarine visual areas. *International Journal. Psychophysiology* 2003; 50: 19-26.
- Zhong, Y.M. and **Rockland, K.S.** Inferior parietal lobule (IPL) projections to anterior inferotemporal cortex (aTE) in macaque monkey. *Cerebral Cortex* 2003; 13: 527-540.
- Rockland, K.S.** Non-uniformity of extrinsic connections and columnar organization. *Journal Neurocytology* 2002; 31: 247-253.
- Rockland, K.S.** Visual cortical organization at the single axon level: a beginning. *Neuroscience Research* 2002; 42:155-166.
- Elston, G. N. and **Rockland, K.S.** The Pyramidal cell of the sensorimotor cortex of the macaque monkey: phenotypic variation. *Cerebral Cortex* 2002; 12: 1071-1078.
- Ichinohe, N. and **Rockland, K.S.** Parvalbumin positive dendrites co-localize with apical dendritic bundles in rat retrosplenial cortex. *NeuroReport* 2002; 13: 757-761.
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- Rockland, K.S.** and Knutson, T. Axon Collaterals of Meynert cells diverge over large portions of Area V1 in the macaque monkey. *Journal Comparative Neurology* 2001; 441:134-147.
- Rockland, K.S.** and Knutson, T. Feedback Connections from Area MT of the squirrel monkey to areas V1 and V2. *Journal Comparative Neurology* 2000; 425: 345-368.
- Ding, S.L., **Rockland, K.S.** and Zheng, De-Shu. Parvalbumin immunoreactive Cajal-Retzius and non Cajal-Retzius neurons in layer I of different cortical regions of human newborn, *Anatomy and Embryology* 2000; 201:407-418.
- Ding, S.L., Van Hoesen, G.W. and **Rockland, K.S.** Inferior parietal lobule projections to the presubiculum and neighboring ventromedial temporal cortical areas. *Journal Comparative Neurology* 2000; 425: 510-530.

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- Morecraft, R.J., **Rockland, K.S.** and Van Hoesen, G.W. Localization of Area Prostriata and its projection to the cingulate motor cortex in the rhesus monkey. *Cerebral Cortex* 2000; 10:192-203.
- Nawrot, M., Rizzo, M., **Rockland, K.S.** and Howard, M. A transient deficit of motion perception in human. *Vision Research* 2000; 40: 3435-3446.
- Rockland, K.S.**, Andresen, J., Cowie, R.J., and Robinson, D.L. Single axon analysis of pulvinocortical connections to several visual areas in the macaque *Journal Comparative Neurology* 1999; 406:221-250.
- Rockland, K.S.** and Van Hoesen, G.W. Some temporal and parietal cortical connections converge in CA1 of the primate hippocampus. *Cerebral Cortex* 1999; 9:232-237.
- Rockland, K.S.** Convergence and branching patterns of round, type 2 corticopulvinar axons. *Journal Comparative Neurology* 1998; 390:515-536.
- Anderson, J.C., Binzegger, T., Martin, K.A.C. and **Rockland, K.S.** The connection from area V1 to V5. A light and electron microscopic study. *Journal Neuroscience* 1998;18:10525-10540.
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