

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Jon H. Kaas		POSITION TITLE Distinguished Professor of Psychology	
eRA COMMONS USER NAME (credential, e.g., agency login) KAASJH			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Northland College	BA	1959	Psychology
Duke University	PhD	1965	Physiological Psychology
University of Wisconsin	Postdoc	1965-1968	Neurophysiology

**A. Positions and Honors**

- 1968 – 1972 Assistant Professor, University of Wisconsin, Laboratory of Neurophysiology
- 1973 – 1979 Associate Professor, Department of Psychology, Vanderbilt University
- 1979 – 1986 Professor, Department of Psychology, Vanderbilt University
- 1987 – present Centennial Professor of Psychology, Vanderbilt University
- 2001 – present Distinguished Professor of Psychology, Vanderbilt University

- 1985 The Earl Sutherland Prize for Achievement in Research, awarded by Vanderbilt University
- 1987 Javits Neuroscience Investigator Award
- 1988 Krieg Cortical Discoverer Award, Cajal Club
- 1991 Elected Fellow of the American Association for the Advancement of Science
- 1994 American Psychological Association Distinguished Scientific Contribution Award
- 1999-00 Fellowship, Center for Advanced Study in the Behavioral Sciences, Stanford
- 2000 Elected Member, National Academy of Sciences
- 2001 Elected Fellow, American Academy of Arts and Sciences
- 2001 Elected Member, Society of Experimental Psychologists
- 2006 Karl Spencer Lashley Award, American Philosophical Society
- 2009 Elected Associate, Neurosciences Research Program, The Neurosciences Institute, San Diego

**B. Selected from 300 Peer-reviewed Publications**

1. Sarko, D.K., Catania, K.C., Leitch, D.B., Kaas, J.H., and Herculano-Houzel, S. Cellular scaling rules of insectivore brains. *Front Neuroanat*, 2009, 3:1-12. PMID:19636383.
2. Takahata, T., Higo, N., Kaas, J.H., Yamamori, T. Expression of immediate-early genes reveals functional compartments within ocular dominance columns after brief monocular inactivation. *Proc. Natl. Acad. Sci., U.S.A.*, 2009, 106:12151-12155. PMID:19581597.
3. Herculano-Houzel, S., Collins, C.E, Wong, P., Kaas, J.H. and Lent, R. The basic nonuniformity of the cerebral cortex. *Proc. Natl. Acad. Sci., U.S.A.* 2008, 105:12593-12598. PMID:18689685.
4. Herculano-Houzel, S., Collins, C., Wong P., and Kaas, J.H. Cellular scaling rules for primate brains. *Proc. Natl. Acad. Sci., U.S.A.*, 2007, 104: 3562-3567. PMID: 17360682.
5. Xu, X., Collins, C.E., Khaytin, I., and Kaas, J.H., Casagrande, V.A. Unequal representations of cardinal versus oblique orientations in the middle temporal (MT) visual area. *Proc. Natl. Acad. Sci. U.S.*, 2006, 103: 17490-17495. PMID: 17088527.

6. Stepniewska, I., Fang, P.-C. and Kaas, J.H. Microstimulation reveals specialized subregions for different complex movements in posterior parietal cortex of prosimian galagos. *Proc. Natl. Acad. Sci., U.S.A.*, 2005, 102:4878-4883. PMID: 15772167.
7. Collins, C.E., Xu, X., Khaytin, I., Kaskan, P.M., Casagrande, V.A. and Kaas, J.H. Optical imaging of visually evoked responses in the middle temporal area after deactivation of primary visual cortex in adult primates. *Proc. Natl. Acad. Sci., U.S.A.*, 2005, 102:5594-5599. PMID: 15809438.
8. Stepniewska, I., Collins, C.E. and Kaas, J.H. Reappraisal of DL/V4 boundaries based on connectivity patterns of dorsolateral visual cortex in macaques. *Cereb. Cortex*, 2005, 15:809-822. PMID: 15459077.
9. Xu, X., Collins, C.E., Kaskan, P.M., Khaytin, I., Kaas, J.H. and Casagrande, V.A. Optical imaging of visually evoked responses in prosimian primates reveals conserved features of the middle temporal visual area. *Proc. Natl. Acad. Sci. USA*, 2004, 101, 2566-2571. PMID: 14983049.
10. Jain, N., Diener, P.S., Coq, J.O. and Kaas, J.H. Patterned activity via spinal dorsal quadrant inputs is necessary for the formation of organized somatosensory maps. *J. Neurosci.*, 2003, 231,10321-330. PMID: 14614091.
11. Collins, C.E. Lyon, D.C., and Kaas, J.H. Responses of neurons in MT after long-standing lesions of V1 in adult New World monkeys. *J. Neurosci.*, 2003, 231, 2251-2264. PMID: 12657684.
12. Lyon, D.C., Xu, X., Casagrande, V.A., Stefansic, J.D., Shima, D., and Kaas, J.H. Optical imaging reveals retinotopic organization of dorsal V3 in New World Owl monkeys. *Proc. Natl. Acad. Sci, USA*, 2002, 99, 15735-15742. PMID: 12441399.
13. Wu, C.W.-H. and Kaas, J.H. Somatosensory cortex of prosimian galagos: Physiological recording, cytoarchitecture, and corticocortical connections of anterior parietal cortex and cortex of the lateral sulcus. *J. Comp. Neurol.*, 2003, 457, 263-292. PMID: 12541310.
14. Lyon, D.C. and Kaas, J.H. Evidence for a modified V3 with dorsal and ventral halves in macaque monkeys. *Neuron*, 2002, 33, 453-461. PMID: 11832231.
15. Hackett, T.A., Preuss, T.M., and Kaas, J.H. Architectonic identification of the core region in auditory cortex of macaques, chimpanzees, and humans. *J. Comp. Neurol.*, 2001, 441, 197-222. PMID: 11745645.

**C. Research Support**

**Ongoing Research Support**

Mathers Foundation Mathers Foundation Cellular correlates of human consciousness Role: PI	Kaas (PI)	8/1/09 - 7/31/11
R01 EY02686-34 NIH/NEI Functional organization of the visual system.	Kaas (PI)	6/1/78 – 7/31/13
5R01 NS16446-30 NIH/NINDS Functional organization of the somatosensory system.	Kaas (PI)	7/1/80 – 7/31/14
1R01DA028303-01 NIH/NIDA High resolution MRI mapping of CNS plasticity Role: Co-investigator	(Avison - PI)	7/1/09 - 6/30/14