

Biographical Sketch

Charles E. Schroeder, PhD

Director, Cognitive Science and Neuromodulation Program
Director, Silvio O. Conte Center for Basic Neuroscience, Department of Neurosurgery
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(a) Professional Preparation

John Carroll University	Cleveland, Ohio		
Ohio State University	Columbus, Ohio	Psychology	B.A., 1974
University of North Carolina	Greensboro, NC	Psychology	M.A., 1978
University of North Carolina	Greensboro, NC	Psychology	Ph.D., 1984

(b) Appointments

2005- Research Scientist VII, Prog. Cog. Neurosci., Nathan S. Kline Institute, Orangeburg, New York

2005- Professor, Departments of Neurosurgery and Psychiatry, Columbia College of Physicians and Surgeons, New York, New York

2003-2005 Professor of Neuroscience and Neurology, Albert Einstein College of Medicine, Bronx, NY

2000-2005 Research Scientist VI, Prog. Cog. Neurosci., Nathan S. Kline Institute, Orangeburg, New York

1995-2003 Associate Professor of Neuroscience and Neurology, Albert Einstein College of Medicine, Bronx, New York

1995-2000 Research Scientist V, Prog. Cog. Neurosci., Nathan S. Kline Institute, Orangeburg, New York

1989-1995 Assistant Professor of Neuroscience and Neurology, Albert Einstein College of Medicine, Bronx, New York

1989-1995 Assistant Professor of Neurology, Albert Einstein College of Medicine, Bronx, New York

1987-1989 Instructor, Depts. of Neurosci. & Neurol., Albert Einstein College of Medicine, Bronx, New York

1984-1986 Post-Doctoral Fellow, Department of Neuroscience, Albert Einstein Coll. of Med., Bronx, NY

(c) Publications

Most closely related products:

- Xu T, Falchier A, Sullivan EL, Linn G, Ramirez JSB, Ross D, Feczko E, Opitz A, Bagley J, Sturgeon D, Earl E, Miranda-Dominquez O, Perrone A, Craddock RC, Schroeder CE, Colcombe S, Fair DA, Milham MP. (2018) Delineating the macroscale areal organization of the macaque cortex in vivo. Cell Rep. 10;23(2):429-441. PMID:PMC6157013
- Milham MP, Ai L, Koo B, Xu T, Amiez C, Balezeau F, Baxter MG, Blezer ELA, Brochier T, Chen A, Croxson PL, Damatac CG, Dehaene S, Everling S, Fair DA, Fleysher L,

Freiwald W, Froudust-Walsh S, Griffiths TD, Guedj C, Hadj-Bouziane F, Ben Hamed S, Harel N, Hiba B, Jarraya B, Jung B, Kastner S, Klink PC, Chai Kwok S, Laland KN, Leopold DA, Lindenfors P, Mars RB, Menon RS, Messinger A, Meunier M, Mok K, Morrison JH, Nacef J, Nagy J, Ortiz Rios M, Petkov CI, Pinsk M, Poirier C, Procyk E, Rajimehr R, Reader SM, Roelfsema PR, Rudko DA, Rushworth MFS, Russ BE, Sallet J, Schmid MC, Schwiedrzik CM, Seidlitz J, Sein J, Shmuel A, Sullivan EL, Ungerleider L, Thiele A, Todorov OS, Tsao D, Wang Z, Wilson CRE, Yacoub E, Ye FQ, Zarco W, di Zhou Y, Margulies DS, Schroeder CE. An open resource for nonhuman primate neuroimaging. *Neuron* 100: 61-74. PMID: PMC6231397.

- Opitz A, Falchier A, Linn GS, Milham MP, Schroeder CE (2017) Limitations of ex vivo measurements for in vivo neuroscience. *Proc Natl Acad Sci U S A* 114:5243–5246. PMID:PMC5441777.
- Opitz A, Falchier A, Yan CG, Yeagle EM, Linn GS, Megevand P, Thielscher A, Deborah AR, Milham MP, Mehta AD, Schroeder CE (2016) Spatiotemporal structure of intracranial electric fields induced by transcranial electric stimulation in humans and nonhuman primates. *Sci Rep* 6:31236. PMID:PMC4989141.
- Zion Golumbic EM, Ding N, Bickel S, Lakatos P, Schevon CA, McKhann GM, Goodman RR, Emerson R, Mehta AD, Simon JZ, Poeppel D, Schroeder CE (2013) Mechanisms underlying selective neuronal tracking of attended speech at a "cocktail party". *Neuron* 77:980-991. PMID:PMC3891478.

Other Significant Products:

- Lakatos P, Chen CM, O'Connell MN, Mills A, Schroeder CE (2007) Neuronal oscillations and multisensory interaction in primary auditory cortex. *Neuron* 53(2):279-92. PMID:PMC3717319.
- Lakatos P, Karmos G, Mehta AD, Ulbert I, Schroeder CE (2008) Oscillatory entrainment as a mechanism of attentional selection. *Science* 320:110-113.
- Kajikawa Y, Schroeder CE (2011) How local is the local field potential? *Neuron* 72:847-858. PMID:PMC3240862.
- Pesaran B, Vinck M, Einevoll GT, Sirota A, Fries P, Siegel M, Truccolo W, Schroeder CE, Srinivasan R. (2018) Investigating large-scale brain dynamics using field potential recordings: analysis and interpretation. *Nat Neurosci.* Jul;21(7):903-919. Epub 2018 Jun 25. Review. PMID: 29942039
- Lakatos P, Musacchia G, O'Connell MN, Falchier AY, Javitt DC, Schroeder CE (2013) The spectrotemporal filter mechanism of auditory selective attention. *Neuron* 77:750-761. PMID:PMC3583016

(d) Synergistic Activities

- Elected Chair of the Gordon Conference on the Neurobiology of Cognition (2012-2014)
- Reviewing Editor – *Journal of Neuroscience* (2009-2015); *eLife* (2016-2018)
- NIH Peer Reviewer (1993-present); Chair, Cognitive Neuroscience [COG] Study Section (2004-2008); Chair, 20+ NIH special emphasis panels (2008-present)
- Director, Silvio O. Conte Center at Columbia University (2016-2021); directed under-represented minority and women in science outreach programs funded by the Center
- Program Reviewer: United States Environmental Protection Agency (EPA), Research Triangle Park, North Carolina (2000-2001; 2005-2006)