

University of California San Francisco

CURRICULUM VITAE

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NAME: Luigi Maccotta, MD, PhD

POSITION: Resident Physician
Department of Neurology

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EDUCATION:

1990-94	St. Peter's College, Jersey City, NJ <i>summa cum laude</i> , Valedictorian	B.S., Physics & Mathematics
1995-97	University of Pennsylvania, Philadelphia, PA Pre-Health program, College of General Studies	
1997-03	Washington University, St. Louis, MO Laboratory of Dr. Randy Buckner	Ph.D., Neuroscience
1997-05	Washington University, St. Louis, MO	M.D.
2005-06	University of California, San Francisco, CA	Intern, Medicine
2006-Now	University of California, San Francisco, CA	Resident, Neurology

LICENSES:

2007 Medical Licensure, California

HONORS & AWARDS:

1991-94	Gold Medal for Academic Achievement, St. Peter's College
1992	Science Alliance Research Fellow, University of Tennessee
1994	Physics Medal for Achievement in the Physics Program, St. Peter's College
1994	Kruse Award for Outstanding Achievement in Mathematics, St. Peter's College
1994	Smith Medal, highest average 4-year Natural Science Curriculum, St. Peter's College
1994	Larkin Medal for Distinguished Achievement in Classics, St. Peter's College
1997	American Epilepsy Society Young Investigator Award
1997-05	Recipient of MSTP support for graduate education training, Washington University
2000	National Institute of Mental Health Travel Award "Graduate Student Presents" symposium, Cognitive Neuroscience Society
2001	Fellow, Summer Institute in Cognitive Neuroscience, Dartmouth College

2005 American Academy of Neurology Medical Student Prize for Excellence in Neurology, Washington University

KEYWORDS/AREAS OF INTEREST:

memory, object recognition, language, fMRI, epilepsy, EEG, high-frequency oscillations, imaging, computational methods, hemodynamics

PROFESSIONAL AFFILIATIONS:

American Academy of Neurology, Member
Society for Neuroscience, Member
Cognitive Neuroscience Society, Member
Organization for Human Brain Mapping, Member
American Medical Association, Member
California Medical Association, Member
San Francisco Medical Society, Member

SERVICE TO PROFESSIONAL PUBLICATIONS:

Peer reviewer for *Cerebral Cortex*
Peer reviewer for *Journal of Cognitive Neuroscience*

INVITED PRESENTATIONS:

Talks (National and International Meetings)

Maccotta L., King D., Alsop D.C., Glosser G., French J.A., Detre J.A. (1997) Noninvasive lateralization of memory function in temporal lobe epilepsy. *Annual Meeting of the American Epilepsy Society, Epilepsia*, 38 (suppl. 8): 131.

Maccotta L., Miezin F.M., Buckner R.L. (2000) Characterizing brief temporal offsets using event-related functional magnetic resonance imaging. *Journal of Cognitive Neuroscience*, 16-16 Suppl. S.

Ojemann J.G., Low D.A., Islam K., Maccotta L., Buckner R., Deasy J.O., Simpson J.R. (2002) Can functional imaging support brain dose escalation using IMRT? *Annual Meeting of the American Society for Therapeutic Radiology and Oncology*.

Maccotta L., Buckner R.L. (2002) Quantifying object recognition and decision-associated processing in frontal and temporal cortex. Program No. 16.4 2002 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*.

Maccotta L., Buckner R.L., Gilliam F., Ojemann J.G. (2003) Frontal contributions to memory encoding before and after unilateral medial temporal lobectomy. *Annual Meeting of the Academy of Neurology*, S34.005.

Maccotta L., Buckner R.L. (2003) Neural correlates of repetition priming that reflect post-identification processing. Program No. 443.8. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*.

Posters

Maccotta L., Zarahn E., Aguirre G.K., D'Esposito M., Alsop D.C., Detre J.A. (1996) Regional variation in transit rates for functional activation using BOLD imaging data. *ISMRM, 4th International Meeting, Book of Abstracts*, p. 1767.

Maccotta L., Aguirre G.K., Zarahn E., Alsop D.C., D'Esposito M., Detre J.A. (1996) Transit time analysis of BOLD imaging data. *NeuroImage*, 3: S77.

Detre J.A., Alsop D.C., Vives L.R., Teener J.W., Maccotta L., Khorsandi A.S., Raps E.C. (1997) Evaluation of patients with cerebrovascular disease using quantitative perfusion MRI. *ISMRM, 5th International Meeting, Book of Abstracts*, p. 1765.

Alsop D.C., Maccotta L., Detre J.A. (1997) Multi-slice perfusion imaging using adiabatic arterial spin labeling and an amplitude modulated control. *ISMRM, 5th International Meeting, Book of Abstracts*, p. 81.

Maccotta L., Detre J.A., Alsop D.C., D'Esposito M., Vives L.R., Raps E.C. (1997) fMRI patterns of motor activation in patients with cerebrovascular disease. *ISMRM, 5th International Meeting, Book of Abstracts*, p. 518.

Maccotta L., Detre J.A., Alsop D.C. (1997) Effectiveness of adiabatic tagging in brain perfusion imaging. *ISMRM, 5th International Meeting, Book of Abstracts*, p. 84.

Miezin F.M., Maccotta L., Ollinger J.M., Petersen S.E., Sanders A.L., Buckner R.L. (1999) The hemodynamic response in rapid event-related fMRI designs. *Society for Neuroscience Abstracts*, 25 (Part 1): p. 1138.

Maccotta L., Balota D.A., Petersen S.E., Kelley W.M., Buckner R.L. (1999) Rapid event-related fMRI studies of lexical decision. *Society for Neuroscience Abstracts*, 25 (Part 1): p. 357.

Maccotta L., Zacks J.M., Buckner R.L. (2001) Rapid self-paced event-related functional MRI. *Annual Meeting of the Cognitive Neuroscience Society*, B52.

Maccotta L., Zacks J.M., Buckner R.L. (2001) Rapid self-paced event-related functional MRI. *7th Annual Meeting of the organization for Human Brain Mapping*, S192.

Maccotta L., Buckner R.L. (2002) Quantifying object processing and recognition in early and late visual areas. *Journal of Cognitive Neuroscience: B107, Suppl. S. Annual Meeting of the Cognitive Neuroscience Society*.

Ojemann J.G., Maccotta L., Gilliam F., Buckner R.L. (2003) Frontal activity before and after medial temporal resection. Program No. 832.7. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*.

UNIVERSITY SERVICE:

1997-98 LCME Washington University School of Medicine licensing committee

PUBLIC SERVICE:

1995 Emergency Room Volunteer, Hospital of the University of Pennsylvania
 1997-98 Hypertension Screening Project, St. Louis, MO
 2001-03 Student Organized Neighborhood Clinic, St. Louis, MO

TEACHING AND MENTORING:**Formal Scheduled Classes**

- 1994-95 Teaching Assistant, Introductory Physics Laboratory, Univ. of Pennsylvania
 1999-00 Teaching Assistant, Clinical Neuroscience, Washington University

Teaching Aids

- 2006-07 Contributor to the UCSF Neurology Housestaff Handbook

PEER-REVIEWED PUBLICATIONS:

1. Maccotta L., Detre J.A., Alsop D.C. (1997) The efficiency of adiabatic inversion for perfusion imaging by arterial spin labeling. *NMR in Biomedicine*, 10: 216-221.
2. Detre J.A., Alsop D.C., Vives L.R., Maccotta L., Teener J.W., Raps E.C. (1998) Noninvasive MRI evaluation of cerebral blood flow in cerebrovascular disease. *Neurology*, 50: 633-641.
3. Detre J.A., Maccotta L., King D., Alsop D.C., Glosser G., D'Esposito M., Zarahn E., Aguirre G.K., French J.A. (1998) Functional MRI lateralization of memory in temporal lobe epilepsy. *Neurology*, 50: 926-932.
4. Miezin F.M., Maccotta L., Ollinger J.M., Petersen S.E., Buckner R.L. (2000) Characterizing the hemodynamic response: Effects of presentation rate, sampling procedure, and the possibility of ordering brain activity based on relative timing. *Neuroimage*, 11(6, Part 1): 735-759.
5. Baker J., Sanders A.M., Maccotta L., Buckner R.L. (2001) Neural correlates of verbal memory encoding during semantic and structural processing tasks. *Neuroreport*, 12: 1251-1256.
6. Maccotta L., Zacks J.M., Buckner R.L. (2001) Rapid self-paced event-related functional MRI: Feasibility and implications of stimulus- versus response-locked timing. *Neuroimage*, 14: 1105-21.
7. Barch D.M., Mathews J.R., Buckner R.L., Maccotta L., Csernansky J.G., Snyder A.Z. (2003) Hemodynamic responses in visual, motor, and somatosensory cortices in schizophrenia. *Neuroimage*, 20: 1884-93.
8. Maccotta L., Buckner R.L. (2004) Evidence for neural effects of repetition that directly correlate with behavioral priming. *Journal of Cognitive Neuroscience*, 16: 1625-1632.
9. Baciú M.V., Watson J.M., Maccotta L., McDermott K.B., Buckner R.L., Gilliam F.G., Ojemann J.G. (2005) Evaluating functional MRI procedures for assessing hemispheric language dominance in neurosurgical patients. *Neuroradiology*, 47: 835-844.
10. Maccotta L., Buckner R.L., Gilliam F., Ojemann J.G. (2007) Changing frontal contributions to memory before and after medial temporal lobectomy. *Cerebral Cortex*, 17: 443-56.
11. Maccotta L., Sherr E.H. (2008) Hematopoietic stem cell transplantation for the treatment of childhood cerebral X-linked adrenoleukodystrophy. *Nature Clinical Practice Neurology*, Epub ahead of print.