

Simposio Internacional: Diagnóstico diferencial de las demencias corticales. Un enfoque pluridisciplinar
International Symposium: Differential diagnosis of cortical dementias: A multidisciplinary approach

Madrid, 29-30 de octubre de 2012
 Madrid, October 29-30, 2012

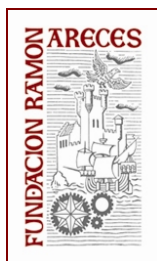
María Luisa Gorno Tempini

NAME Maria Luisa Gorno Tempini, M.D., Ph.D.		POSITION TITLE Associate Professor of Neurology	
eRA COMMONS USER NAME marilu			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Brescia, Italy.	M.D. (Hons.)	1987-1993	Medicine and Surgery
University of Modena and Reggio Emilia, Italy.	Resident	1994-1998	Neurology
University College London, London, UK.	Ph.D.	1998-2001	Neuroscience
UCSF Memory and Aging Center.	Fellowship	2001-2003	Behavioral Neurology

A. Personal Statement.

I am a behavioral neurologist by training, with a PhD in imaging neuroscience. I direct the Language Group of the UCSF Memory and Aging Centre. For the last 10 years I have applied my expertise in cognitive neurology and neuroimaging to the study of neurodegenerative disease, in particular Primary Progressive Aphasia (PPA). I have extensive experience in the neuropsychology of language and in the use of neuroimaging techniques to study PPA symptoms and their neural mechanisms. Since 2004 I have directed a research project on PPA that has achieved important goals. One such accomplishment was our description of the third clinical variant of PPA that we termed "logopenic". I coordinated an international effort to develop new clinical criteria for PPA and its variants that included this new clinical presentation. Our group has also provided novel findings to the language cognitive neuroscience community by applying the most modern neuroimaging techniques to the unique PPA patient population. Experiments conducted in the past three years have led to important discoveries regarding the neural basis of specific language functions, such as speech production, reading and syntax. I look forward to continuing my work on PPA and I am enthusiastic about new team members and the application of novel methodologies. Our studies will provide evidence for the differential diagnosis, progression of disease and prediction of pathology in PPA and in doing so, will help understanding the neural mechanism of language functions.

B. Positions and Honors



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- 1999-2001 Wellcome Trust International Clinical Research Fellow, Wellcome Department of Cognitive Neurology, Institute of Neurology, London, UK.
- 1999-2001 Honorary Clinical Assistant to Prof. RSJ Frackowiak and Prof. M Rossor, National Hospital for Neurology and Neurosurgery, London, UK.
- 2001 Art Linkletter Award, for fellows of exceptional promise, Los Angeles, CA.
- 2001-2003 JD French Alzheimer's Foundation Research Fellow, UCSF Memory and Aging Center, San Francisco, CA.
- 2003-2008 Assistant Professor of Neurology, UCSF Department of Neurology, San Francisco.
- 2008-present Associate Professor of Neurology, UCSF Department of Neurology, San Francisco.

C. Selected peer-reviewed publications (in chronological order)

1. **Gorno-Tempini ML**, Dronkers N, Rankin K, Ogar J, Phengrasamy L, Weiner M, Miller BL. Anatomy and behavior in three variants of progressive aphasia. *Ann Neurol*, 2004 Mar; 55(3): 335-46. PMID: 14991811
2. Brambati SM, Renda NC, Wilson A, Seeley WW, Rankin K, Ashburner J, Miller BL **Gorno-Tempini ML**. A tensor based morphometry study of longitudinal gray matter contraction in frontotemporal dementia. *NeuroImage*. 2007; Apr 15;35(3):998-1003. PMID: 17350290
3. Brambati SM, Rankin KP, Narvid J, Seeley WW, Dean D, Rosen HJ, Miller BL, Ashburner J, **Gorno-Tempini ML**. Atrophy progression in semantic dementia with asymmetric temporal involvement: a tensor-based morphometry study. *Neurobiol Aging*, 2007 Jun 29. PMID: 17604879
4. **Gorno-Tempini ML**, Brambati SM, Dronkers N, Ogar J, Ginex V, Garibotto V, Marcone A, Cappa SF, Miller BL. The logopenic/phonological variant of primary progressive aphasia. *Neurology*, 2008 Oct 14;71(16):1227-34. PMID: 18633132
5. Rabinovici GD, Furst A, Ogar J, Dronkers N, Miller BL, Jagust W, **Gorno-Tempini ML**. Aβ Amyloid and Glucose Metabolism in Three Variants of Primary Progressive Aphasia. *Annals of Neurology*, 2008 Nov 7;64(4):388-401. PMID: 18991338
6. Agosta F, Vessel KA, Bruce L, Miller BL, Migliaccio R, Bonasera SJ, Filippi M, Boxer AL, Karydas A, Possin KL, **Gorno-Tempini ML**. Apolipoprotein E4: disease-specific effects on brain atrophy in Alzheimer's disease and frontotemporal dementia. *Proc Natl Acad Sci U S A*. 2009 Feb 10;106(6):2018-22. Epub 2009 Jan 22. PMID: 19164761
7. Wilson SM, Brambati SM, Henry RG, Handwerker DA, Agosta F, Miller BL, Wilkins DP, Ogar JM, **Gorno-Tempini ML**. The neural basis of surface dyslexia in semantic dementia. *Brain* 2009; 132: 71-86. PMID:
8. Wilson SM, Ogar JM, Laluz V, Growdon M, Jang J, Glenn S, Miller BL, Weiner MW, **Gorno-Tempini ML**. Automated MRI-based classification of primary progressive aphasia variants. *NeuroImage*. 2009 Jun 4. [Epub ahead of print]. PMID: 19022856
9. Agosta F, Henry RG, Migliaccio R, Miller BL, Dronkers N, Brambati SM, Filippi M, Wilson SM, Ogar JM, **Gorno-Tempini ML**. Diffusion Tensor-based tractography of Language Networks in Semantic Dementia. *Brain*, 2009 Sep 16 [Epub ahead of print]. PMID: 2801321.



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10. Wilson SM, Dronkers NF, Ogar JM, Jang, J, Growdon, M, Agosta, F, Henry ML, Miller BL, **Gorno-Tempini ML**. Neural correlates of syntactic processing in the nonfluent variant of primary progressive aphasia. J Neurosci. 2010 Dec 15;30(50):16845-54. PMID: 2115995.
11. Lee SE, Rabinovici GD, Mayo MC, Wilson SM, Seeley WW, DeArmond SJ, Huang EJ, Trojanowski JQ, Growdon ME, Jang JY, Sidhu M, See TM, Karydas AM, **Gorno-Tempini ML**, Boxer AL, Weiner MW, Geschwind MD, Rankin KP, Miller BL. Clinicopathological correlations in corticobasal degeneration. Ann Neurol. 2011 Aug;70(2):327-40. PMID: 21823158.
12. **Gorno-Tempini ML**, Hillis AE, Weintraub S, Kertesz A, Mendez M, Cappa SF, Ogar JM, Rohrer JD, Black S, Boeve BF, Manes F, Dronkers NF, Vandenberghe R, Rascovsky K, Patterson K, Miller BL, Knopman DS, Hodges JR, Mesulam MM, Grossman M. Classification of Primary Progressive Aphasia and its Variants. Neurology. 2011 Mar 15;76(11):1006-14. Epub 2011 Feb 16. PMID: 21325651.
13. Gesierich B, Jovicich J, Riello M, Adriani M, Monti A, Brentari V, Robinson SD, Wilson SM, Fairhall SL, **Gorno-Tempini ML**. Distinct Neural Substrates for Semantic Knowledge and Naming in the Temporoparietal Network. Cereb Cortex. 2011 Nov 2. [Epub ahead of print] PMID: 22047967.
14. Galantucci S, Tartaglia MC, Wilson SM, Henry ML, Filippi M, Agosta F, Dronkers NF, Henry RG, Ogar JM, Miller BL, **Gorno-Tempini ML**. White matter damage in primary progressive aphasia: a DTI study. Brain. 2011 Oct;134(Pt 10):3011-29. Epub 2011 Jun 11. PMID: 21666264.
15. Wilson SM, Galantucci S, Tartaglia MC, Rising K, Patterson DK, Henry ML, Ogar JM, DeLeon J, Miller BL, **Gorno-Tempini ML**. Syntactic processing depends on dorsal language tracts. Neuron. 2011 Oct 20;72(2):397-403. PMID: 22017996.

C. Research Support.

ACTIVE

R01NS050915 Gorno-Tempini PI

07/01/2004 - 08/29/2012

National Institute of Neurological Disorders and Stroke

Progressive aphasia: cognition anatomy and progression

The major goal of this project is to investigate the cognitive and neural basis of speech and language impairments in primary progressive aphasia.

Role: PI

R01 AG032306 (Rosen)
NIH/NIA/NINDS

09/30/2009-08/31/2014



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The Frontotemporal Lobar Degeneration Neuroimaging Initiative

The frontotemporal lobar degeneration (FTLD) neuroimaging initiative will provide information on how to use brain images to follow the course of FTLD over time, and what techniques are best for this purpose.

Role: Senior Investigator

R03DC010878 (Wilson, PI)

07/07/2010-03/31/2013

NIH/National Institute on Deafness and Other Communication Disorders

Functional neuroimaging of language processing in primary progressive aphasia

Goal:

Role: Subcontract PI

5 P01AG019724-06 Miller PI

07/01/2004 - 08/29/2017

NIH/NIA

Frontotemporal Dementia: Genes, Images and Emotions: The goal is to determine the genetic, imaging, and emotional and diagnostic features of frontotemporal lobar degeneration.

Role: Senior Investigator

COMPLETED

Non-Profit Donor Miller/Hauser PIs

02/15/2008 - 02/15/2010

Aging and Myelin: Structure, Function, and Genetics

The major goal of the study is to investigate the role of genetics and anatomy of white matter function in healthy aging.

Role: Senior Investigator