

Synopsis of research impact

Tor D. Wager, Ph. D.

Position

- Assistant professor, Columbia University, Psychology Dept.
- 4th year of service, 3rd year on tenure clock

Current support

- PI on one R01 (NIMH, on Placebo Effects), one NSF grant (on multi-level path modeling for fMRI), and one private grant (on expectancy and pain).
- Co-investigator on four other current grants, including Emotion Regulation R01, Cognition-Emotion interaction exploratory center, Brain-Periphery interaction exploratory center, and deception detection grant.

Media coverage

- Demonstrates popular interest in work; service in translating scientific concepts for lay audience and generating interest in and support for science
- Meta-analysis work featured in *The Economist* (Dec 2006)
- Interview on NPR's *Talk of the Nation* (with Ira Flatow, 2007)
- TV Interview: CNN (2004); on placebo effects
- Interview for NPR's *Radio Lab* series (2007); on placebo effects
- Placebo work featured in article in *Wired Magazine*
- Placebo work featured in article in *National Geographic*
- News coverage of placebo work: MSNBC, BBC, LA Times, Reuters, other news services
- Featured on American Psychological Society Observer's "Rising Stars" series:
<http://www.psychologicalscience.org/observer/getArticle.cfm?id=2252#tor>

Publications and citations

- One first-author Science paper, one first-author PNAS paper, both on placebo effects in pain
- 45 total publications, 33 peer-reviewed (12 chapters/other commentaries). 32 total papers since beginning as Assistant Professor (23 peer-reviewed).
- ISI web of knowledge analysis:
 - Increases in citations each year since 2001; 1500+ citations total, over 500 citations this year
 - Current h-index is 12
 - Five papers cited over 100 times
 - Most highly cited papers:
 - One on placebo effects, one on cognitive control, two on emotions, one on neuroimaging methods

Miyake, A., Friedman, N. P., Emerson, M. J., Witzki, A. H., Howerter, A., & Wager, T. D. (2000). The unity and diversity of executive functions and their contributions to complex "Frontal Lobe" tasks: a latent variable analysis. *Cognit Psychol*, 41(1), 49-100.

Nichols, T., Brett, M., Andersson, J., Wager, T., & Poline, J. B. (2005). Valid conjunction inference with the minimum statistic. *Neuroimage*, 25(3), 653-660.

Phan, K. L., Wager, T., Taylor, S. F., & Liberzon, I. (2002). Functional neuroanatomy of emotion: a meta-analysis of emotion activation studies in PET and fMRI. *Neuroimage*, 16(2), 331-348.

Wager, T. D., Phan, K. L., Liberzon, I., & Taylor, S. F. (2003). Valence, gender, and lateralization of functional brain anatomy in emotion: a meta-analysis of findings from neuroimaging. *Neuroimage*, 19(3), 513-531.

Wager, T. D., Rilling, J. K., Smith, E. E., Sokolik, A., Casey, K. L., Davidson, R. J., et al. (2004). Placebo-induced changes in FMRI in the anticipation and experience of pain. *Science*, 303(5661), 1162-1167.

Symposia and invited talks

- Active conference participation
 - Symposium chair and speaker at Cognitive Neuroscience Society meeting (2007)
 - Co-chair and speaker at Human Brain Mapping (HBM, 2006)
 - Symposium speaker at Society for Neuroscience (2005).
 - Speaker at HBM fMRI educational course, 2006-2007. Organizer of and speaker at HBM Advanced fMRI course, 2008.
 - Invited symposium presentations at other meetings, including American Psychological Society (2006), Society for Personality and Social Psychology (2005) and International Association for the Study of Pain (2004).
- Invited talks
 - Invited talks at multiple universities and societies, including Yale, Harvard, Cambridge University (England), NYU, Cold Spring Harbor Labs, NIH, University of Pennsylvania, University of Michigan, New York Psychoanalytic Institute, New York State Psychiatric Institute.

Service

- Ad-hoc reviewer for over 20 journals
- Editorial service for two journals: *Cognitive Affective, and Behavioral Neuroscience* and *Social Cognitive and Affective Neuroscience* (Consulting editor for each).