

# International Journal of Technology Assessment in Health Care

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*International Journal of Technology Assessment in Health Care*  
Quarterly. Volume 26, 2010. ISSN 0266-4623. E-ISSN 1471-6348

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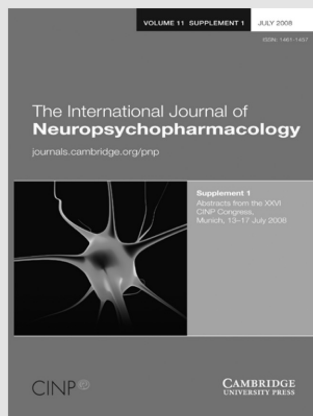
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## Neural reuse: A fundamental organizational principle of the brain

Michael L. Anderson

## Person as scientist, person as moralist

Joshua Knobe

## To appear in upcoming issues

## Human kinship, from conceptual structure to grammar

Doug Jones, *University of Utah*

Research in anthropology has shown that kin terminologies have a complex combinatorial structure and vary systematically across cultures. This article argues that universals and variation in kin terminology result from the interaction of (1) an innate conceptual structure of kinship and (2) principles of optimal, "grammatical" communication active in language in general. The conceptual structure of kinship seems to borrow its organization from the conceptual structure of space, while being specialized for representing genealogy. The grammar of kinship looks like the product of an evolved grammar faculty, opportunistically active across traditional domains of semantics, syntax, and phonology.

**With commentary from** C Behme; G Bennardo; T Biró; M Bloch; F El Guindi; D Gerkey & L Cronk; L Hogeweg; G Legendre & P Smolensky; R Hudson; FM Jordan & M Dunn; P Kay; C Knight; DB Kronenfeld; MJ Leaf; SC Levinson; C Liu, Y Ge, X Mai & YJ Luo; SM Lyon; P McConvell; P Miers; S Musgrave & DL Dowe; A Nevins; DW Read; C Salazar; RM Seyfarth & DL Cheney; A Wierzbicka

## The Simulation of Smiles (SIMS) model: Embodied simulation and the meaning of facial expression

Paula M. Niedenthal, *Martial Mermillod, Centre national de la recherche scientifique and the University of Clermont-Ferrand, France, Marcus Maringer, University of Amsterdam, and Ursula Hess, Humboldt-Universität Berlin*

Theories of embodied cognition have motivated an explosion of research in psychology and the neurosciences on the processing of facial expression of emotion. Still unclear is how the component processes of emotion and their neural mechanisms support embodied simulation, and what triggers its occurrence. We examine the roles of the brain's reward systems, amygdala, somatosensory cortices, and motor centers in recognizing and interpreting smiles, and we integrate these with research on facial mimicry and eye gaze. A model of the processing of the smile is presented as a means to advance the application of theories of embodied cognition in the study of facial expression of emotion more generally.

**With commentary from** MW Alibali & AB Hostetter; MS Bartlett; F Basso & O Oullier; P Bouissac; P Briñol, KG DeMarree & KR Smith; R Caldara; S Centorrino; E Djemai, A Hopfensitz, M Milinski & P Seabright; B Chakrabarti; B Chang & N Vermeulen; C Chantelle, S Laureys, S Majerus & C Schnakers; L Conty, J Grèzes & D Sander; CM Covas-Smith, J Fine, AM Glenberg, E Keylor, YJ Li, E Marsh, E Osborne, T Soliman & C Yee; K Evers, I Noens, J Steyaert & J Wagemans; JM Fernández-Dols & P Carrera; C Hamon-Hill & J Barresi; L Huang & AD Galinsky; J Kiverstein & E Zamuner; D Lakens & KI Ruys; C Liu, Y Ge, W-B Luo & YJ Luo; JS Lobmaier & MH Fischer; TA Mann & Y Choe; M Mehu K N'Diaye; E Morsella, C Montemayor, J Hubbard & P Zarolia; JJ Ohala; DA Sauter & SC Levinson; A Senju & MH Johnson; E Simpson & D Frigaszy; JE Swain & S Ho; JM Vigil & P Coulombe; P Winkielman

## Among the articles to appear in forthcoming issues of BBS:

D. Jones, "Human kinship, from conceptual structure to grammar"

P. M. Niedenthal, M. Mermillod, M. Maringer & U. Hess, "The Simulation of Smiles (SIMS) model: Embodied simulation and the meaning of facial expression"

S. Carey, "Précis of *The Origin of Concepts*"

W. von Hippel & R. Trivers, "The evolution and psychology of self-deception"

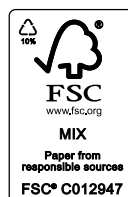
H. Mercier & D. Sperber, "Why do humans reason? Arguments for an argumentative theory"

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