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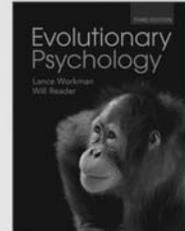


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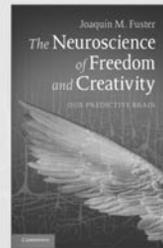


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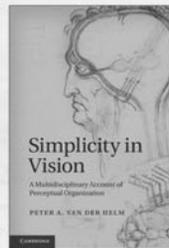
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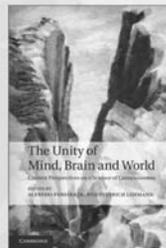
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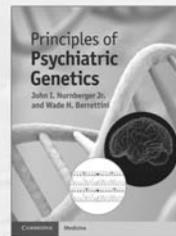


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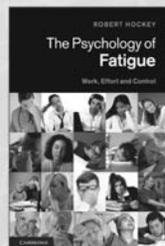
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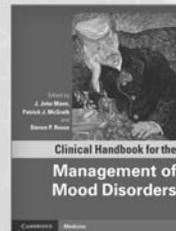
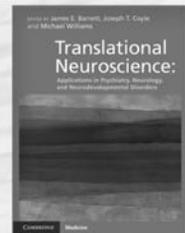


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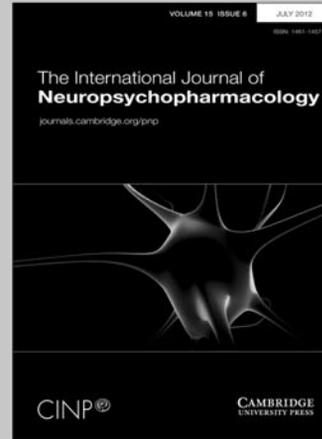
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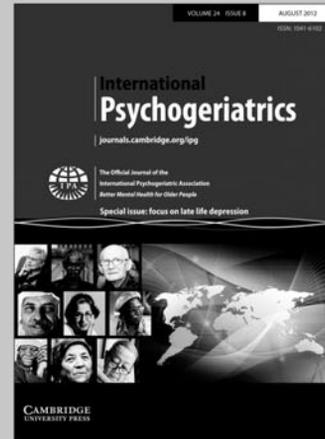
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## Unconscious influences on decision making: A critical review

Ben R. Newell and David R. Shanks

## Mapping collective behavior in the big-data era

R. Alexander Bentley, Michael J. O'Brien, and William A. Brock

To appear in upcoming issues (2014)

## The Selfish Goal: Autonomously operating motivational structures as the proximate cause of human judgment and behavior

Julie Y. Huang, *University of Toronto*, and John A. Bargh, *Yale University*

The Selfish Goal model holds that a person is composed of multiple goals, each operating selfishly, steering that person's information processing and behaviors toward the goal's end-state (and not necessarily the overall interests of the individual). This theoretical framework predicts the existence of unconscious goal processes capable of guiding behavior in the absence of conscious awareness and control (the *automaticity principle*), the ability of the most motivating or active goal to constrain a person's information processing and behavior toward successful completion of that goal (the *reconfiguration principle*), structural similarities between conscious and unconscious goal pursuit (the *similarity principle*), and goal influences that produce apparent inconsistencies or counterintuitive behaviors in a person's behavior extended over time (the *inconsistency principle*).

**With commentary from** G Ainslie; RF Baumeister & BM Winegard; DV Becker & DT Kenrick; E Bliss-Moreau & LA Williams; P Carruthers; D Conroy-Beam & DM Buss; NL Cuzen, NA Fineberg & DJ Stein; B Eitam & ET Higgins; M Fedyk & T Kushnir; A Fishbach; JB Hirsh; B Huebner & RD Rupert; AC Kaya & JT Jost; C Kopetz; W Hofmann & RWHJ Wiers; TA Matthej; M Mazzone; B Merker; GB Moskowitz & E Balcefs; CP Müller & D Amato; B Nanay; SL Neuberg & M Schaller; G Pezzulo; D Spurrett; C Sripada, JD Swain, SS Ho & JE Swain; W von Hippel & FA von Hippel; N Washington & D Kelly

## Mirror neurons: From origin to function

Richard Cook, *City University London*, Geoffrey Bird, *King's College London*, Caroline Catmur, *University of Surrey, Guildford*, Clare Press, *University of London*, and Cecilia Heyes, *University of Oxford*

Mirror neurons have been described as "the neurons that shaped civilization" (Ramachandran 2009). It is widely assumed that mirror neurons were designed by evolution to enable action understanding. In contrast, we argue that mirror neurons are forged by domain-general processes of associative learning, and do not necessarily have a specific evolutionary purpose or adaptive function. The associative account allows that mirror neurons may have psychological effects or functions. However, it implies that, to get reliable information about the function of mirror neurons, we need a new approach based on developmental history, system-level theory, and careful experimentation.

**With commentary from** C Behme; BI Bertenthal; J Bonaiuto; M Brass & PS Muhle-Karbe; EC Brown & M Brüne; S de la Rosa & HH Bühlhoff; ND Duran, R Dale & DC Richardson; L Fogassi;

V Gallese & C Sinigaglia; MM Gervais; MA Giese; L Heil, S van Pelt, J Kwisthout, I van Rooij & H Bekkering; SS Ho, A MacDonald & JE Swain; LL Holt & AJ Lotto, Andrew; C Keysers, DI Perrett & V Gazzola; EL Khalil; JM Kilner & KJ Friston; S Krogh-Jespersen, C Filippi & AL Woodward; A Lingnau & A Caramazza; A Lotem & O Kolodny; A Martin & IR Santos; JD Newman; LM Oberman, EM Hubbard & JP McCleery; NN Oosterhof, AJ Wiggett & ES Cross; GA Orban; RR Provine; SM Reader; G Rizzolatti; AP Saygin & F Dick; EA Simpson, NA Fox, A Tramacere & PF Ferrari

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

- J. Y. Huang & J. A. Bargh, "The selfish goal: Autonomously operating motivational structures as the proximate cause of human judgment and behavior"
- R. Cook, G. Bird, C. Catmur, C. Press & C. Heyes, "Mirror neurons: From origin to function"
- J. R. Hibbing, K. B. Smith & J. R. Alford, "Differences in negativity bias underlie variations in political ideology"
- P. E. Smaldino, "The cultural evolution of emergent group-level traits"
- A. Lankford, "The myth of martyrdom: What really drives suicide bombers, rampage shooters, and other self-destructive killers"
- D. S. Wilson & S. C. Hayes, "Evolving the future: Toward a science of intentional change"
- A. Cimpian & E. Salomon, "The inheritance heuristic: An intuitive means of making sense of the world, and a potential precursor to psychological essentialism"
- H. Ackermann, S. R. Hage & W. Ziegler, "Brain mechanisms of acoustic communication in humans and nonhuman primates: An evolutionary perspective"
- R. D. Lane, L. Ryan, L. Nadel & L. Greenberg, "Memory reconsolidation, emotional arousal and the process of change in psychotherapy: New insights from brain science"

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