Visual Neuroscience (2013), **30**, 351–354.
Copyright © Cambridge University Press, 2013 0952-5238/13 $25.00
doi:10.1017/S0952523813000552

visual neuroscience

Volume 30 **January/March 2013** **Number 1 & 2**

CONTENTS

Introduction

Nansi Jo Colley and John E. Dowling **1** Spotlight on the evolution of vision

Perspectives

Dan-E. Nilsson **5** Eye evolution and its functional basis

Timothy H. Goldsmith **21** Evolutionary tinkering with visual photoreception

Review Article

Gerald H. Jacobs **39** Losses of functional opsin genes, short-wavelength cone photopigments, and color vision—A significant trend in the evolution of mammalian vision

https://doi.org/10.1017/S0952523813000552 Published online by Cambridge University Press

Volume 30 May 2013 Number 3

CONTENTS

Research Articles

Laura S. Frost, Vanda S. Lopes, Frank P. Stefano, Alvina Bragin, David S. Williams, Claire H. Mitchell, and Kathleen Boesze-Battaglia **55** Loss of melanoregulin (MREG) enhances cathepsin-D secretion by the retinal pigment epithelium

Yuan Zhu, Stuti Mistra, Lisa Nivison-Smith, Monica L. Acosta, Erica L. Fletcher, and Michael Kalloniatis **65** Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retina

Bin Lu, Catherine W. Morgans, Sergey Girman, Raymond Lund, and Shaomei Wang **77** Retinal morphological and functional changes in an animal model of retinitis pigmentosa

Merve Tekmen-Clark and Evanna Gleason **91** Nitric oxide production and the expression of two nitric oxide synthases in the avian retina

Mohd Izzuddin Hairol, Monika A. Formankiewicz, and Sarah J. Waugh **105** Foveal visual acuity is worse and shows stronger contour interaction effects for contrast-modulated than luminance-modulated Cs

Corrigendum

Yuan Zhu, Stuti Mistra, Lisa Nivison-Smith, Monica L. Acosta, Erica L. Fletcher, and Michael Kalloniatis **121** Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retina

Erratum

Constanze Bickelmann, James M. Morrow, Johannes Müller, and Belinda S.W. Chang **123** Functional characterization of the rod visual pigment of the echidna (*Tachyglossus aculeatus*), a basal mammal

https://doi.org/10.1017/S0952523813000552 Published online by Cambridge University Press

Volume 30 **July 2013** **Number 4**

CONTENTS

Commentary

David C. Sterratt and J.J. Johannes Hjorth **125** Retinocollicular mapping explained?

Research Articles

Gregory H. Grossman, Lindsey A. Ebke, Craig D. Beight, Geeng-Fu Jang, John W. Crabb, and Stephanie A. Hagstrom **129** Protein partners of dynamin-1 in the retina

Miguel Moyano, Ángel Porteros, and John E. Dowling **141** The effects of nicotine on cone and rod b-wave responses in larval zebrafish

Sowjanya Gowrisankaran, J. Jason Mcanany, and Kenneth R. Alexander **147** Poststimulus response characteristics of the human cone flicker electroretinogram

Thorstein Seim and Arne Valberg **153** Spatial sensitivity, responsivity, and surround suppression of LGN cell responses in the macaque

Brief Communications

Alexander Cunea, Rana Begum, Dieter Reinisch, and Glen Jeffery **169** Questioning photostasis

Hannah R. Joo, Beth B. Peterson, Dennis M. Dacey, Samer Hattar, and Shih-Kuo Chen **175** Recurrent axon collaterals of intrinsically photosensitive retinal ganglion cells

https://doi.org/10.1017/S0952523813000552 Published online by Cambridge University Press

Volume 30 September/November 2013 Number 5 & 6

CONTENTS

Introduction

Lynne Kiorpes, Karen Dobkins, and Janine D. Mendola **183** Linking hypotheses in visual neuroscience

Retrospective and prospective analyses of linking propositions

Janette Atkinson and Oliver Braddick **185** Inferences about infants' visual brain mechanisms

M.J. Morgan, D. Melmoth, and J.A. Solomon **197** Linking hypotheses underlying Class A and Class B methods

Horace Barlow **207** Linking minds and brains

J. Anthony Movshon **219** Three comments on Teller's "bridge locus"

Anthony M. Norcia **223** Linking perception to neural activity as measured by visual evoked potentials

Andrew E. Welchman and Zoe Kourtzi **229** Linking brain imaging signals to visual perception

Linking performance and neural mechanisms in development and disability

Angela M. Brown and Delwin T. Lindsey **243** Infant color vision and color preferences: A tribute to Davida Teller

Pamela M. Pallett and Karen R. Dobkins **251** Development of face discrimination abilities, and relationship to magnocellular pathway development, between childhood and adulthood

Da-Peng Li, Maureen A. Hagan, and Lynne Kiorpes **263** Linking structure and function: Development of lateral spatial interactions in macaque monkeys

Donald E. Mitchell and Stephen G. Lomber **271** An examination of linking hypotheses drawn from the perceptual consequences of experimentally induced changes in neural circuitry

Dennis M. Levi **277** Linking assumptions in amblyopia

Linking performance and neural mechanisms in adults

Marianne Maertens and Robert Shapley **289** Linking appearance to neural activity through the study of the perception of lightness in naturalistic contexts

Jeremy D. Fesi and Janine D. Mendola **299** Linking brain to behavior for the visual perception of figures and objects

Seth W. Egger and Kenneth H. Britten **315** Linking sensory neurons to visually guided behavior: Relating MST activity to steering in a virtual environment

Benjamin Hayden and Tatiana Pasternak **331** Linking neural activity to complex decisions

Announcement

343 2013 VNS Young Investigator Award

345 Acknowledgment to Reviewers

349 Author/Keyword Index to Volume 30, 2013

351 Contents to Volume 30

https://doi.org/10.1017/S0952523813000552 Published online by Cambridge University Press