

VISUAL NEUROSCIENCE, VOLUME 25 - ISSUE 03

Guest Editors' Foreword: Proceedings of the 19th Biennial Symposium of the International Colour Vision Society. Held July 2007 Belém, Brazil
Luiz Carlos de Lima Silveira and Hannah Smithson and Dora Fix Ventura and Barry B. Lee

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 229-230](#)

doi: 10.1017/S0952523808089918, Published online by Cambridge University Press 03 Jul 2008

Neural models and physiological reality

BARRY B. LEE

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 231-241](#)

doi: 10.1017/S0952523808080140, Published online by Cambridge University Press 06 Mar 2008

Color vision in the black howler monkey (*Alouatta caraya*)

ANTÔNIO C. ARAÚJO and JULIA J. DIDONET and CAROLINA S. ARAÚJO and PATRÍCIA G. SALETTI and TÂNIA R.J. BORGES and VALDIR F. PESSOA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 243-248](#)

doi: 10.1017/S0952523808080292, Published online by Cambridge University Press 03 Jul 2008

Eel visual pigments revisited: The fate of retinal cones during metamorphosis

JAMES K. BOWMAKER and MA'AYAN SEMO and DAVID M. HUNT and GLEN JEFFERY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 249-255](#)

doi: 10.1017/S0952523808080152, Published online by Cambridge University Press 06 Mar 2008

Cone visual pigments of monotremes: Filling the phylogenetic gap

MATTHEW J. WAKEFIELD and MARK ANDERSON and ELLEN CHANG and KE-JUN WEI and RAJINDER KAUL and JENNIFER A. MARSHALL GRAVES and FRANK GRÜTZNER and SAMIR S. DEEB

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 257-264](#)

doi: 10.1017/S0952523808080255, Published online by Cambridge University Press 03 Jul 2008

Nucleotide polymorphisms upstream of the X-chromosome opsin gene array tune L:M cone ratio

KAREN L. GUNTHER and JAY NEITZ and MAUREEN NEITZ

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 265-271](#)

doi: 10.1017/S0952523808080280, Published online by Cambridge University Press 03 Jul 2008

Longitudinal evaluation of expression of virally delivered transgenes in gerbil cone photoreceptors

MATTHEW C. MAUCK and KATHERINE MANCUSO and JAMES A. KUCHENBECKER and THOMAS B. CONNOR and WILLIAM W. HAUSWIRTH and JAY NEITZ and MAUREEN NEITZ

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 273-282](#)

doi: 10.1017/S0952523808080577, Published online by Cambridge University Press 03 Jul 2008

Distinguishing L from M photopigment coding sequences by hybridization to novel locked nucleic acid (LNA) oligonucleotide probes

CHRISTINA PETTAN-BREWER and LI FU and SAMIR S. DEEB

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 283-287](#)

doi: 10.1017/S0952523808080607, Published online by Cambridge University Press 03 Jul 2008

Number and topography of cones, rods and optic nerve axons in New and Old World primates

BARBARA L. FINLAY and EDNA CRISTINA S. FRANCO and ELIZABETH S. YAMADA and JUSTIN C. CROWLEY and MICHAEL PARSONS and JOSÉ AUGUSTO P.C. MUNIZ and LUIZ CARLOS L. SILVEIRA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 289-299](#)

doi: 10.1017/S0952523808080371, Published online by Cambridge University Press 03 Jul 2008

Topography of the long- to middle-wavelength sensitive cone ratio in the human retina assessed with a wide-field color multifocal electroretinogram

JAMES A. KUCHENBECKER and MANISHA SAHAY and DIANE M. TAIT and MAUREEN NEITZ and JAY NEITZ

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 301-306](#)

doi: 10.1017/S0952523808080474, Published online by Cambridge University Press 03 Jul 2008

Twelve chromatically opponent ganglion cell types in turtle retina

F.A.F. ROCHA and C.A. SAITO and L.C.L. SILVEIRA and J.M. DE SOUZA and D.F. VENTURA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 307-315](#)

doi: 10.1017/S0952523808080516, Published online by Cambridge University Press 03 Jul 2008



CAMBRIDGE
UNIVERSITY PRESS

VISUAL NEUROSCIENCE, VOLUME 25 - ISSUE 03

Amplitude of the transient visual evoked potential (tVEP) as a function of achromatic and chromatic contrast: Contribution of different visual pathways
GIVAGO S. SOUZA and BRUNO D. GOMES and ELIZA MARIA C.B. LACERDA and CÉZAR A. SAITO and MANOEL DA SILVA FILHO and LUIZ CARLOS L. SILVEIRA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 317-325](#)

doi: 10.1017/S0952523808080243, Published online by Cambridge University Press 06 Mar 2008

L- and M-Cone isolating ERGs: LED versus CRT stimulation
I.J. MURRAY and J. KREMERS and N.R.A. PARRY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 327-331](#)

doi: 10.1017/S095252380808036X, Published online by Cambridge University Press 03 Jul 2008

Color discrimination ellipses of trichromats measured with transient and steady state visual evoked potentials
BRUNO D. GOMES and GIVAGO S. SOUZA and MONICA G. LIMA and ANDERSON R. RODRIGUES and CÉZAR A. SAITO and MANOEL DA SILVA FILHO and LUIZ CARLOS L. SILVEIRA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 333-339](#)

doi: 10.1017/S0952523808080383, Published online by Cambridge University Press 03 Jul 2008

The impulse response of S-cone pathways in detection of increments and decrements
KEIZO SHINOMORI and JOHN S. WERNER

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 341-347](#)

doi: 10.1017/S0952523808080218, Published online by Cambridge University Press 06 Mar 2008

S-cone discrimination for stimuli with spatial and temporal chromatic contrast
DINGCAI CAO and ANDREW J. ZELE and VIVIANNE C. SMITH and JOEL POKORNY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 349-354](#)

doi: 10.1017/S095252380808022X, Published online by Cambridge University Press 03 Jul 2008

Misbinding of color to form in afterimages
STEVEN K. SHEVELL and REBECCA ST. CLAIR and SANG WOOK HONG

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 355-360](#)

doi: 10.1017/S0952523808080085, Published online by Cambridge University Press 06 Mar 2008

Binocular rivalry between identical retinal stimuli with an induced color difference
SANG WOOK HONG and STEVEN K. SHEVELL

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 361-364](#)

doi: 10.1017/S0952523808080139, Published online by Cambridge University Press 06 Mar 2008

Systematic misestimation in a vernier task arising from contrast mismatch
HAO SUN and BARRY B. LEE and RIGMOR C. BARAAS

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 365-370](#)

doi: 10.1017/S0952523808080188, Published online by Cambridge University Press 06 Mar 2008

Surface gloss and color perception of 3D objects
BEI XIAO and DAVID H. BRAINARD

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 371-385](#)

doi: 10.1017/S0952523808080267, Published online by Cambridge University Press 03 Jul 2008

Changes in induced hues at low luminance and following dark adaptation suggest rod-cone interactions may differ for luminance increments and decrements
A.J. SHEPHERD and G. WYATT

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 387-394](#)

doi: 10.1017/S0952523808080358, Published online by Cambridge University Press 03 Jul 2008

Dissimilarity of yellow-blue surfaces under neutral light sources differing in intensity: Separate contributions of light intensity and chroma
RUMI TOKUNAGA and ALEXANDER D. LOGVINENKO and LAURENCE T. MALONEY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 395-398](#)

doi: 10.1017/S0952523808080395, Published online by Cambridge University Press 03 Jul 2008



VISUAL NEUROSCIENCE, VOLUME 25 - ISSUE 03

Chromatic discrimination in the presence of incremental and decremental rod pedestals
DINGCAI CAO and ANDREW J. ZELE and JOEL POKORNY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 399-404](#)

doi: 10.1017/S0952523808080425, Published online by Cambridge University Press 03 Jul 2008

Reaction time measures of adaptation to chromatic contrast
N.R.A. PARRY and I.J. MURRAY and D.J. McKEEFY

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 405-410](#)

doi: 10.1017/S0952523808080449, Published online by Cambridge University Press 03 Jul 2008

Very-long-term chromatic adaptation: Test of gain theory and a new method
SUZANNE C. BELMORE and STEVEN K. SHEVELL

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 411-414](#)

doi: 10.1017/S0952523808080450, Published online by Cambridge University Press 03 Jul 2008

A new perceptual problem: The amodal completion of color
BAINGIO PINNA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 415-422](#)

doi: 10.1017/S0952523808080553, Published online by Cambridge University Press 03 Jul 2008

The phenomenal dissociation between coloration and object-hole effects in the watercolor illusion
MARIA TANCA and BAINGIO PINNA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 423-432](#)

doi: 10.1017/S0952523808080644, Published online by Cambridge University Press 03 Jul 2008

Sex-related differences in chromatic sensitivity
M. RODRÍGUEZ-CARMONA and L.T. SHARPE and J.A. HARLOW and J.L. BARBUR

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 433-440](#)

doi: 10.1017/S095252380808019X, Published online by Cambridge University Press 03 Jul 2008

Color vision in children and the Lanthony New Color Test
BARBARA Y. LING and STEPHEN J. DAIN

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 441-444](#)

doi: 10.1017/S0952523808080206, Published online by Cambridge University Press 03 Jul 2008

A computer-controlled color vision test for children based on the Cambridge Colour Test
PAULO R. K. GOULART and MARCIO L. BANDEIRA and DANIELA TSUBOTA and NESTOR N. OIWA and MARCELO F. COSTA and DORA F. VENTURA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 445-450](#)

doi: 10.1017/S0952523808080589, Published online by Cambridge University Press 03 Jul 2008

Failure of concordance of the Farnsworth D15 test and the Nagel anomaloscope matching range in anomalous trichromatism
JENNIFER BIRCH

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 451-453](#)

doi: 10.1017/S0952523808080231, Published online by Cambridge University Press 03 Jul 2008

Rayleigh matches in carriers of inherited color vision defects: The contribution from the third L/M photopigment
YANG SUN and STEVEN K. SHEVELL

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 455-462](#)

doi: 10.1017/S0952523808080346, Published online by Cambridge University Press 03 Jul 2008

Chromatic discrimination losses in multiple sclerosis patients with and without optic neuritis using the Cambridge Colour Test
ANA LAURA DE ARAÚJO MOURA and ROSANI APARECIDA ANTUNES TEIXEIRA and NESTOR N. OIWA and MARCELO F. COSTA and CLAUDIA FEITOSA-SANTANA and DAGOBERTO CALLEGARO and RUSSELL D. HAMER and DORA FIX VENTURA

[Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 463-468](#)

doi: 10.1017/S0952523808080437, Published online by Cambridge University Press 03 Jul 2008



VISUAL NEUROSCIENCE, VOLUME 25 - ISSUE 03

Psychophysical analysis of contrast processing segregated into magnocellular and parvocellular systems in asymptomatic carriers of 11778 Leber's hereditary optic neuropathy

M. GUALTIERI and M. BANDEIRA and R.D. HAMER and M.F. COSTA and A.G.F. OLIVEIRA and A.L.A. MOURA and F. SADUN and A.M. DE

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 469-474

doi: 10.1017/S0952523808080462, Published online by Cambridge University Press 03 Jul 2008

The color of night: Surface color categorization by color defective observers under dim illuminations

JOEL POKORNY and MARGARET LUTZE and DINGCAI CAO and ANDREW J. ZELE

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 475-480

doi: 10.1017/S0952523808080486, Published online by Cambridge University Press 03 Jul 2008

Color and luminance increment thresholds in poor readers

STEPHEN J. DAIN and RICHARD A. FLOYD and ROBERT T. ELLIOT

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 481-486

doi: 10.1017/S0952523808080565, Published online by Cambridge University Press 03 Jul 2008

Irreversible color vision losses in patients with chronic mercury vapor intoxication

CLÁUDIA FEITOSA-SANTANA and MIRELLA T.S. BARBONI and NESTOR N. OIWA and GALINA V. PARAMEI and ANA LUISA A.C. SIMÕES and MARCELO F. DA COSTA and LUIZ CARLOS L. SILVEIRA and DORA F. VENTURA

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 487-491

doi: 10.1017/S0952523808080590, Published online by Cambridge University Press 03 Jul 2008

The number of discernible colors perceived by dichromats in natural scenes and the effects of colored lenses

JOÃO M.M. LINHARES and PAULO D. PINTO and SÉRGIO M.C. NASCIMENTO

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 493-499

doi: 10.1017/S0952523808080620, Published online by Cambridge University Press 03 Jul 2008

Poorer color discrimination by females when tested with pseudoisochromatic plates containing vanishing designs on neutral backgrounds

RIGMOR C. BARAAS

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 501-505

doi: 10.1017/S0952523808080632, Published online by Cambridge University Press 03 Jul 2008

A study of unusual Rayleigh matches in deutan deficiency

J.L. BARBUR and M. RODRIGUEZ-CARMONA and J.A. HARLOW and K. MANCUSO and J. NEITZ and M. NEITZ

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 507-516

doi: 10.1017/S0952523808080619, Published online by Cambridge University Press 03 Jul 2008

Time course of rod influences on hue perception

STEVEN L. BUCK and LAURA P. THOMAS and CASSANDRA R. CONNOR and KATELYN B. GREEN and TZIRE QUINTANA

Visual Neuroscience, Volume 25, Issue 03, May 2008, pp 517-520

doi: 10.1017/S0952523808080279, Published online by Cambridge University Press 03 Jul 2008

