

# Cortex

A journal devoted to the study of the nervous system and behavior

JUNE 2020 | VOLUME 127 | ISSN 0010-9452 |

Abstracted/Indexed in: Current Contents/Life Sciences, Science Citation Index, Research Alert, Scisearch, Neuroscience Citation Index (ISI), Index Medicus/Medline, Excerpta Medica, Cumulative Index to Nursing and Allied Health Literature (CINAHL), Current Science and Psychological Abstracts of the American Psychological Association, CABS (Current Awareness in Biological Sciences), EMBASE. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.

#### Research Reports

- 42 Graham Flick and Liina Pylkkänen Isolating syntax in natural language: MEG evidence for an early contribution of left posterior temporal cortex
- 58 Sabrina Lenzoni, Virginia Bozzoni, Francesca Burgio, Beatrice de Gelder, Alexandra Wennberg, Annalisa Botta, Elena Pegoraro and Carlo Semenza Recognition of emotions conveyed by facial expression 150 Diane Rekow, Jean-Yves Baudouin, and body postures in myotonic dystrophy (DM)
- 78 Damien Wright, Benjamin Dering, Jasna Martinovic and Elena Gheorghiu Neural responses to dynamic adaptation reveal the dissociation between the processing of the shape of contours and textures
- P. Gindri, A. Farnè and F. Garbarini The sense of body-ownership gates cross-modal improvement of tactile extinction in brain-damaged patients

94 C. Fossataro, V. Bruno, E. Bosso, V. Chiotti,

- 108 Jasper H. Fabius, Tanja C.W. Nijboer, Alessio Fracasso and Stefan Van der Stigchel Intra-saccadic displacement sensitivity after a lesion to the posterior parietal cortex
- 120 Matthieu M. de Wit, Olufunsho Faseyitan and H. Branch Coslett Ever-ready for action: Spatial effects on motor system excitability
- Bruno Rossion and Arnaud Leleu An ecological measure of rapid and automatic face-sex categorization
- 162 Elizabeth Shephard, Bosiljka Milosavljevic, Luke Mason, Mayada Elsabbagh, Charlotte Tye, Teodora Gliga, Emily JH. Jones, Tony Charman, Mark H. Johnson and The BASIS Team Neural and behavioural indices of face processing in siblings of children with autism spectrum disorder (ASD): A longitudinal study from infancy to mid-childhood

Contents continued on inside backcover

Cover: Face to Facebook. 2011, Paolo Cirio and Alessandro Ludovico. From EXPOSED, solo show of Paolo Cirio at Fondazione Sandretto Re Rebaudengo, Turin, Italy. 2019. Courtesy of Giorgio Persano Gallery and the artists.

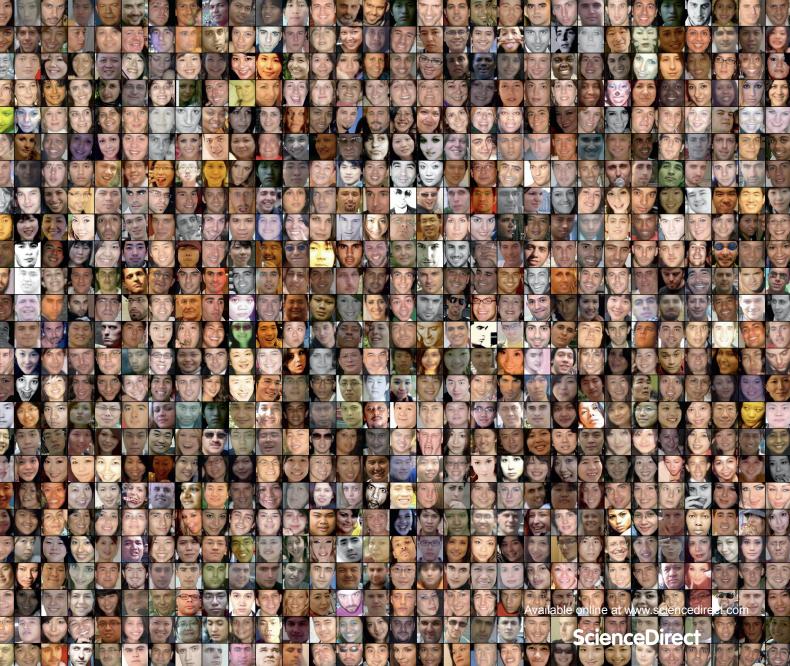


127



JUNE 2020 | VOLUME 127 | ISSN 0010-9452 |

Cortex A journal devoted to the study of the nervous system and behavior



CORTEX\_v127\_iC\_COVER.indd 1



#### **Copyright and Publication Information**

© 2020 Elsevier Ltd.

This journal and the individual contributions contained in it are protected under copyright, and the following terms and conditions apply to their use in addition to the terms of any Creative Commons or other user license that has been applied by the publisher to an individual article:

**Photocopying:** Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission is not required for photocopying of articles published under the CC BY license nor for photocopying for non-commercial purposes in accordance with any other user license applied by the publisher. Permission of the publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational classroom use.

**Derivative works:** Users may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions or companies. Other than for articles published under the CC BY license, permission of the publisher is required for resale or distribution outside the subscribing institution or company.

For any subscribed articles or articles published under a CC BY-NC-ND license, permission of the publisher is required for all other derivative works, including compilations and translations.

**Storage or Usage:** Except as outlined above or as set out in the relevant user license, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the publisher.

**Permissions:** For information on how to seek permission visit www.elsevier. com/permissions or call: (+44) 1865 843830 (UK) / (+1) 215 239 3804 (USA).

**Author rights:** Author(s) may have additional rights in their articles as set out in their agreement with the publisher (more information at http://www.elsevier.com/authorsrights).

**Notice:** No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of rapid advances in the medical sciences, in particular, independent verification of diagnoses and drug dosages should be made. Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

**Funding body agreements and policies:** Elsevier has established agreements and developed policies to allow authors whose articles appear in journals published by Elsevier, to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit http://www.elsevier.com/fundingbodies.

**Publication Information:** Cortex (ISSN 0010-9452). For 2020, volume(s) 122–133 are scheduled for publication. Subscription prices are available

upon request from the Publisher or from the Elsevier Customer Service Department nearest you or from this journal's website (http://www.elsevier.com/locate/cortex). Further information is available on this journal and other Elsevier products through Elsevier's website (http://www.elsevier.com). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

**Author enquiries:** You can track your submitted article at http://www.elsevier.com/track-submission. You can track your accepted article at http://www.elsevier.com/trackarticle. You are also welcome to contact Customer Support via http://support.elsevier.com.

**Guide for Authors:** For a full and complete Guide for Authors, please go to http://www.elsevier.com/locate/cortex.

Language (usage and editing services): Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's WebShop http://webshop.elsevier.com/languageediting/ or visit our customer support site http://support.elsevier.com for more information.

Illustration services: Elsevier's WebShop (http://webshop.elsevier.com/illustrationservices) offers Illustration Services to authors preparing to submit a manuscript but concerned about the quality of the images accompanying their article. Elsevier's expert illustrators can produce scientific, technical and medical-style images, as well as a full range of charts, tables and graphs. Image 'polishing' is also available, where our illustrators take your image(s) and improve them to a professional standard. Please visit the website to find out more.

**Orders, claims, and journal inquiries:** Please visit our Support Hub page https://service.elsevier.com for assistance.

**USA mailing notice:** Cortex (ISSN 0010-9452) is published 10 times per year by Elsevier Ltd (The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK). Periodicals postage paid at Jamaica, NY 11431 and additional mailing offices.

**USA POSTMASTER:** Send change of address to Cortex, Elsevier, Journal Returns, 1799 Highway 50 East, Linn, MO 65051, USA.

**AIRFREIGHT AND MAILING** in USA by Air Business Ltd., c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

Printed by Henry Ling Ltd., The Dorset Press, Dorchester,  $\ensuremath{\mathsf{UK}}$ 

 The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper)

Printed June 2020

by Henry Ling Ltd., The Dorset Press,

23 High East Street. Dorchester, UK

CORTEX\_v127\_iC\_COVER.indd 2



## Contents

180 Renee Lustenhouwer, Ian G.M. Cameron, Nens van Alfen, Talitha D. Oorsprong, Ivan Toni, Baziel G.M. van Engelen, Jan T. Groothuis and Rick C. Helmich

Altered sensorimotor representations after recovery from peripheral nerve damage in neuralgic amyotrophy

191 Ahmet O. Ceceli, Joman Y. Natsheh,Daniel Cruz and Elizabeth TricomiThe neurobehavioral mechanisms of motivational

control in attention-deficit/hyperactivity disorder

248 Monika Halicka, Axel D. Vittersø,
Hayley McCullough, Andreas Goebel,

Leila Heelas, Michael J. Proulx and Janet H. Bultitude Disputing space-based biases in unilateral complex

269 Javier Sanchez-Lopez, Silvia Savazzi, Caterina A. Pedersini, Nicolò Cardobi and

Carlo A. Marzi
Neural bases of unconscious orienting of attention in hemianopic patients: Hemispheric differences

371 Flavio Ragni, Raffaele Tucciarelli,
Patrik Andersson and Angelika Lingnau
Decoding stimulus identity in occipital, parietal
and inferotemporal cortices during visual mental
imagery

### Registered Reports

regional pain syndrome

Yannick Rothacher, Anh Nguyen,
 Bigna Lenggenhager, Andreas Kunz and
 Peter Brugger

Walking through virtual mazes: Spontaneous alternation behaviour in human adults

## Single Case Reports

290 Salomi S. Asaridou, Ö. Ece Demir-Lira, Susan Goldin-Meadow, Susan C. Levine and Steven L. Small

Language development and brain reorganization in a child born without the left hemisphere

# Special Issue "Understanding Others": Research Report

17 Johannes T. Krautheim, Miriam Steines, Udo Dannlowski, Gizem Neziroğlu, Henriette Acosta, Jens Sommer, Benjamin Straube and Tilo Kircher Emotion specific neural activation for the production and perception of facial expressions

67 Kruti M. Vekaria, Katherine O'Connell, Shawn A. Rhoads, Kristin M. Brethel-Haurwitz, Elise M. Cardinale, Emily L. Robertson, Brian Walitt, John W. VanMeter and Abigail A. Marsh

Activation in bed nucleus of the stria terminalis (BNST) corresponds to everyday helping

131 Quentin Moreau, Matteo Candidi, Vanessa Era, Gaetano Tieri and Salvatore M. Aglioti
Midline frontal and occipito-temporal activity during error monitoring in dyadic motor interactions

333 Adi Korisky, Naomi I. Eisenberger, Michael Nevat, Irit Weissman-Fogel and Simone G. Shamay-Tsoory

A dual-brain approach for understanding the neuralmechanisms that underlie the comforting effects of social touch

Contents continued on facing page



