CONFERENCES

4 - 7 MAR | EMBL Conference Series Visualizing Biological Data (ViBli)
S. D’Eustachio, J. Hoeller | EMBL, Heidelberg, Germany
6 MAR | EMBL-EBI Symposium SME Bioinformatics Forum
O. Bock | EMBL-EBI, Hinxton, UK

20 - 23 MAR | EMBL Conference Microgliocytes: Guardians of the Brain
C. Cross, F. Het, M. Pachon | EMBL, Heidelberg, Germany

30 APR - 3 MAY | EMBL | EMBL Symposium Translating Diabetes
J. Biscoe, S. Heng, H. Tischhauser | EMBL, Heidelberg, Germany

7 - 10 MAY | EMBL | EMBL Symposium Tumour Microenvironment and Signalling
A. Serra, P. Truschnik, B. Fajr | EMBL, Heidelberg, Germany

12 - 15 MAY | 15th Annual BioPat | EMBL Conference Biology and Pathology of the Malaria Parasite
A. Baker, J. Brown, C. Newbold, E. Moosup, J. Porter | EMBL, Heidelberg, Germany

20 - 23 MAY | EMBL Symposium Molecular Machines: Lessons from Integrating Structure, Biophysics and Chemistry
A. Geisow | EMBL, Heidelberg, Germany

28 - 31 MAY | EMBL Conference Series Microglutin: Structure, Regulation and Functions
M. Loew, C. Jabs, A. Benacchio | EMBL, Heidelberg, Germany

23 - 26 JUL | EMBL Conference Microfluidics 2014
G. Hentschel, C. Oelschlegel | EMBL, Heidelberg, Germany

20 - 23 AUG | EMBL Conference Series Chemical Biology 2014
M. Albin, T. Linder, K. Overgaard, C. Schütz | EMBL, Heidelberg, Germany

23 - 26 AUG | 11th EBMB | EMBL Conference Transcription and Chromatin
G. Halva, L. Fantes | EMBL, Heidelberg, Germany

27 - 30 AUG | EMBL | EMBL Symposium Epithelia: The Building Blocks of Multicellularity
H. Gross, T. Fuchs | EMBL, Heidelberg, Germany

28 - 31 AUG | EMBL Workshop Unravelling Biological Secrets by Single-Cell Expression Profiling
J. Sieper, R. Schild, F. Stöhr | EMBL, Heidelberg, Germany

5 - 8 OCT | EMBL | EMBL Symposium The Complex Life of mRNA
A. Griffiths, N. Swanson, J. Ihms, D. Solinger | EMBL, Heidelberg, Germany

5 - 8 OCT | EMBL Conference Series Stem Cells in Cancer and Regenerative Medicine
T. Dierks, J. Grit, J. Jacob, C. Nieder, D. O’Hare, F. Wind | EMBL, Heidelberg, Germany

12 - 15 OCT | EMBL Conference Series Experimental Approaches to Evolution and Ecology using Yeast and Other Model Systems
M. Konig, J. Stenmark | EMBL, Heidelberg, Germany

17 - 20 OCT | EMBL, PhD Symposium EMBL | EMBL Symposium Frontiers in Metabolomics: From Molecular Physiology to Systems Medicine
J. Juren, E. Germain, E. Labigne, S. Etherton | EMBL, Heidelberg, Germany

5 - 7 NOV | 15th EMBL-EBI Science and Society Conference Foods are not just Eating and Becoming
M. Elscombe | EMBL, Heidelberg, Germany

5 - 9 NOV | EMBL Conference Series From Functional Genomics to Systems Biology
H. Cheng, T. Fantes, J. Halden | EMBL, Heidelberg, Germany

17 - 20 NOV | EMBL | EMBL Symposium Metabolism, Modelling and Biotechnological Methods
L. McLean | EMBL, Heidelberg, Germany

A. Rana, C. Ennis, L. Jorgens | EMBL, Heidelberg, Germany

12 - 15 NOV | EMBL | EMBL Course Advanced RNA-seq and ChIP-seq Data Analysis
G. Rudin | EMBL, Heidelberg, Germany

9 - 13 JUN | EMBL | EMBL Course Networks and Pathways Bioinformatics for Biologists
L. Ennis, S. Richard | EMBL, Heidelberg, Germany

24 - 26 JUN | EMBL | EMBL Course Whole Transcriptome Data Analysis
M. Bubier, H. Cöster | EMBL, Heidelberg, Germany

23 - 27 JUN | EMBL | EMBL Course Fundamentals of Widefield and Confocal Microscopy and Imaging
E. Doh, J. Margaritis, S. Jayagan | EMBL, Heidelberg, Germany

23 - 27 JUN | Joint EMBL | EMBL Welcome Trust Course Summer School in Bioinformatics
L. Rabinovitch | EMBL, Heidelberg, Germany

30 JUN - 4 JUL | EMBL | EMBL Course Cancer Genomics
G. Rudin | EMBL, Heidelberg, Germany

7 - 11 JUL | EMBL | EMBL Course Fluorescence Imaging Techniques
E. Doh, S. Popowicz, S. Jayagan | EMBL, Heidelberg, Germany

26 JUL - 1 AUG | EMBL | EMBL Practical Course Genotype to Phenotype Mapping
L. Ennis, J. Unterluggauer, G. Rudin | EMBL, Heidelberg, Germany

31 AUG - 0 SEP | EMBL | EMBL Practical Course Cryo-Electron Microscopy and 3D Image Processing
J. Reggiori, C. Schuck | EMBL, Heidelberg, Germany

FOR FULL EVENT LISTING PLEASE VISIT OUR WEBSITE
www.embl.org/events

#emlevents
The Royal Society, the national academy of science of the UK and the Commonwealth, is at the cutting edge of scientific development. Our international team of Fellows and Foreign Members support many top young scientists, engineers and technologists, influence science policy, advise scientific issues with the public and much more. We are an independent, charitable body and derive our authoritative status from over 1400 Fellows and Foreign Members. Our mission: to expand knowledge and further the role of science and engineering in making the world a better place.

The Royal Society is a registered Charity No. 207443.
Mirror neurons: fundamental discoveries, theoretical perspectives and clinical implications

Papers of a Theme Issue compiled and edited by Pier Francesco Ferrari and Giacomo Rizzolatti

Introduction
Mirror neuron research: the past and the future
P F Ferrari & G Rizzolatti

Articles
The mirror mechanism: recent findings and perspectives
G Rizzolatti & L Fogassi

Corticothalamic mirror neurons
A Kreiter, B Phillips, S Widermann, G Vigena, MM Quilico & BN Lemon

Human primary motor cortex is both activated and stabilized during observation of other person’s phasic motor actions
R Hari, M Bourguignon, H Päsänen, J Smeda, A De Tiele & V Jousmäki

Neural systems for preparatory control of imitation
EA Croxen & M Saccaro

Hobbit learning and predictive mirror neurons for actions, sensations and emotions
C Keysers & V Gazzola

Treiber on mirror neurons
C Heyser

Body selves in relation: embodied simulation as second-person perspective on intersubjectivity
G Gallese

Auditory–vocal mirroring in songbirds
R Mooney

Frequency and topography in monkey electroencephalogram during action observation: possible neural correlates of the mirror neuron system
G Coudé, RE Vanderwert, S Thorpe, F Festante, M Bimbi, NA Fox & PF Ferrari

What are you doing? How active and observational experience shape infants’ action understanding
S Hunnius & H Bekkering

Auditory–vocal mirroring in songbirds
R Mooney

Mirror neurons as revealed through neonatal imitation: presence from birth, predictive power and evidence of plasticity
E Simpson, L Murray, A Paukner & PF Ferrari

Neural mirroring mechanisms and imitation in human infants
E Marshall & AN Mottolese

Action observation treatment: a novel tool in neurorehabilitation
C Baccino

Neurofeedback training produces normalization in behavioral and electrophysiological measures of high-functioning autism
A Prina, K Camarca, M Delrio, S Pfeifer & M Schalles

Autism and the mirror neuron system: insights from learning and teaching
C Vivanti & SJ Rogers

ISSN 0962-8436
volume 369
number 1644
5 June 2014