



Human Brain Project

Con il patrocinio di



International Workshop on

Navigation

Wednesday
19 April 2017

Rita Levi-Montalcini Memorial Lecture
by Edvard Moser

EBRI Secretariat

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Meeting Venue

Palazzina dell'Auditorio

Accademia Nazionale dei Lincei

Rome, Italy

Program

09:00 Registration

10:00 Welcome addresses

Alberto Quadrio-Curzio, *President, Accademia Nazionale dei Lincei*
Pietro Calissano, *President, European Brain Research Institute*
Giuseppe Nisticò, *General Director, European Brain Research Institute*

10:20 **Rita Levi-Montalcini Memorial Lecture**

Edvard Moser, *Norwegian University of Science and Technology, Norway*

Grid cells and the brain's map of space

11:10 Coffee break

11:30 **Rüdiger Wehner**, *University of Zürich, Switzerland*

Ant navigation: an insect's representation of space

12:00 **Wolfgang Wiltschko**, *Goethe-Universität Frankfurt, Germany*

Avian navigation and the role of the geomagnetic field

12:30 **Nathan Putman**, *University of Miami, National Oceanic & Atmospheric Administration, USA*

Magnetic maps as a unifying explanation for long-distance navigation in marine animals

13:00 Lunch

14:30 **Hans-Peter Lipp**, *University of Zürich, Switzerland*

Gravity and time: reflections on the evolutionary roots of large-scale animal navigation

15:00 **Nachum Ulanovsky**, *Weizmann Institute of Science, Israel*

Neural codes for natural navigation in the hippocampal formation of bats

15:30 **Alexandra Constantinescu**, *University of Oxford, UK*

Organizing conceptual knowledge in humans with a grid-like code

16:00 **Melvyn A. Goodale**, *The University of Western Ontario, Canada*

Navigating the world with sound: the neural substrates of echolocation in blind humans

16:30 Concluding remarks

Antonino Cattaneo, *Scuola Normale Superiore di Pisa, EBRI, Italy*