



EUROPEAN
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ESF Research Conferences

A Programme of the European Science Foundation

Brain Development and Cognition in Human Infants From Action to Cognition

Acquafredda di Maratea (near Naples), Italy, 1-6 October 2005

Chair: **Claes von Hofsten** (University of Uppsala, SE)
Vice-Chair: **Janette Atkinson** (University College London, UK)

With support from

the EU Integrated Project **Robot-cub**
Cogsys and
the **Basilicata Region**



Final Programme

On line at: <http://www.esf.org/conferences/mc05118>

Saturday 1 October

Late afternoon / early evening	Registration at the hotel reception and ESF desk
19.00	Welcome drink
20.00	Dinner

Sunday 2 October

Session 1: The Structuring of the Brain

08.30	Conference Opening
09.00	Mark H. Johnson (Birkbeck College, London, UK) <i>General perspectives on human postnatal functional brain development</i>
09.40	Discussion
10.00	Giorgio Maria Innocenti (Karolinska Institute, Stockholm, SE) <i>From subcortical to cortical processes</i>
10.40	Discussion

- 11.00** **Coffee break**
- 11.30 **Luciano Fadiga** (University of Ferrara, IT)
Mirror neurons
- 12.10 Discussion

13.00 **Lunch**

15.30 **Coffee break**

Session 2: Establishing Modes of Action

- 16.00 **Kerstin Rosander** (Uppsala University, SE)
Visual tracking and its relationship to cortical development
- 16.40 Discussion
- 17.00 **Geert Savelsbergh** (Free University Amsterdam, NL)
Reaching for and catching objects
- 17.40 Discussion
- 18.00 **Karen Adolph** (New York University, US)
Development of locomotion
- 18.40 Discussion
- 19.30** **Dinner**
- 21.00 Poster session

Monday 3 October

Session 3: Action Related Perception

- 08.30 **Richard Aslin** (Rochester University, US)
Finding structure in events
- 09.10 Discussion
- 09.30 **Rachel Keen** (University of Massachusetts, Amherst, US)
Emergence of action plans
- 10.10 Discussion
- 10.30** **Coffee break**
- 11.00 **Oliver Braddick** (Oxford University, UK)
Global processing as a basis for infants' understanding of objects
- 11.40 Discussion
- 12.00 Poster session
- 13.00** **Lunch**
- 15.30** **Coffee break**

Session 4: Cognitive Development

- 16.00 **Elizabeth Spelke** (Harvard University, Cambridge, US)
Origins of knowledge of Newtonian physics
- 16.40 Discussion
- 17.00 **Claes von Hofsten** (Uppsala University, SE)
Perception of occlusion
- 17.40 Discussion
- 18.00 **György Gergely** (Academy of Sciences, Budapest, HU)
The role of ostensive cues and communication of relevance in early social cognitive development
- 18.40 Discussion
- 19.30 Dinner**
- 21.00 Poster session

Tuesday 4 October

Session 5: Development of Social Cognition

- 08.30 **Francesca Simion** (Università degli studi di Padova, IT)
Development of face perception.
- 09.10 Discussion
- 09.30 **Josep Call** (Max-Planck-Institute, Leipzig, DE)
Perception of social information in chimpanzees and dogs
- 10.10 Discussion
- 10.30 Coffee break**
- 10.40 **Petra Hauf** (Max-Planck-Institute, Munich, DE)
Infants' perception of intentional actions
- 11.20 Discussion
- 11.40 **Gergely Csibra** (Birkbeck College, London, UK)
Infants' understanding of social events
- 12.20 Discussion
- 13.00 Lunch**
- 14.00 Half-day excursion**
- 20.00 Conference Dinner**

Wednesday 5 October

Session 6: Development in Deviant Populations

- 08.30 **Janette Atkinson** (University College London, UK)
Perinatal brain damage and cognitive development
- 09.10 Discussion
- 09.30
- 10.10 Discussion
- 10.30 Coffee break**
- 11.00 **Annette Karmiloff-Smith** (University College London, UK)
Neurocomputational constraints induced by developmental disorders
- 11.40 Discussion
- 12.30 Lunch**
- 15.30 Coffee break**

Session 7: Development in Artificial Systems

- 16.00 **Giulio Sandini** (University of Genoa, IT)
Baby robots
- 16.40 Discussion
- 17.00 **Yasuo Kuniyoshi** (Tokyo University, JP)
Towards emergence and development of humanoid embodied cognition - a robotic approach
- 17.40 Discussion
- 18.00 **Hideki Kozima** (NICT Kyoto, JP)
Children-robot interaction
- 18.40 Discussion
- 19.30 Dinner**
- 21.00 **Special discussion about the future of the conference series**

Thursday 6 October

Breakfast and departure