

# Agenda for Annual Conte Center Meetings, 2005

## Monday, August 29, 2005

**American Academy for Arts & Sciences, 200 Beacon Street, Somerville, MA (617-576-5030)**

- 9:50                      **Coffee**
- 10:05                      **Welcome** – Tomaso Poggio
- 10:15 – 12:45            **Presentations** [15 minutes each, strictly enforced]
- David Ferster**            Introduction: Physiology in Area 17
- Ian Finn**                    *The Relationship of Spatial Frequency Tuning to the Substructure of Receptive Fields in Complex Cells of Cat Primary Visual Cortex*
- Jim Dicarlo**                Introduction: Physiology in IT
- Davide Zoccolan**        *Multiple Object Response Normalization in Monkey Inferotemporal Cortex.*
- Tomaso Poggio**           Introduction: Theory
- Thomas Serre**            *A Theory of the Feedforward Path of the Ventral Stream in Visual Cortex: Human Level Recognition Performance?*
- Minjoon Kouh**            *A Theory of the Feedforward Path of the Ventral Stream in Visual Cortex: IT*
- Charles Cadieu**           *A Theory of the Feedforward Path of the Ventral Stream in Visual Cortex: V4*
- Ulf Knoblich**             *A Theory of the Feedforward Path of the Ventral Stream in Visual Cortex: Biophysics*
- 12:45                      **Lunch**
- 2:00 – 3:25               **Presentations** [15 minutes each, strictly enforced]
- Earl Miller**                Introduction: Physiology in PFC
- Jefferson Roy**             *Activity of Monkey Prefrontal Cortex Neurons during Shifts in Category Membership* [work with M. Riesenhuber, T Poggio and E. Miller]
- Christof Koch**            Introduction: Psychophysics
- Rufin Van Rullen**        *When do You Need to Pay Attention When Recognizing Objects?*
- Dirk Walther**             *Modeling Feature-sharing between Object Detection and Top-down Attention*
- 3:25 – 3:35               **Tea**
- 3:35 – 5:00               **Presentations** [15 minutes each, strictly enforced]
- M. Riesenhuber**        Introduction: fMRI and Theory
- Xiong Jiang**               *Shape and Category Tuning in Human Cortex Induced by Categorization Training: A fMRI-RA Study*
- Chou Hung**                *Causal Evidence Linking IT Neural Activity to Object Recognition*
- Gabriel Kreiman**        *Fast Decoding of Object Identity*
- Christof Koch**            *Watching for Faces, but Very Fast*
- 5:00 – 6:00               **Advisory Board** meets separately
- 6:00 – 7:00               **Advisory Board** meets with PIs only
- 7:30 – 10:00             **Dinner** at Blue Room – All participants and Advisory Board invited

## **Tuesday, August 30, 2005**

### **Massachusetts Institute of Technology, Room E25-202**

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|---------------|---|
| 9:15          | <b>Breakfast</b> – Summary of previous day by Tomaso Poggio and PIs   |
| 10:00 – 10:30 | <b>Ilan Lampl</b><br><i>Amplification Mechanism of Cortical inhibition and its Role in Spatial Integration</i>  |
| 10:30 – 11:00 | <b>Coffee</b>   |
| 11:00 – 11:30 | <b>David Freedman</b><br><i>Categorical Representation of Visual Motion Direction in the Lateral Intraparietal Area</i>   |
| 11:30 – 12:30 | <b>Brainstorming</b> (brainstorming about research plans for next year)   |
| 12:30 – 2:00  | <b>Working Lunch</b>  |
| 2:00 – 3:00   | <b>Seminar Talk</b> by <b>Doris Tsao</b> ( <b>Room E25-401</b> )<br><u>CBCL Brains &amp; Machines Seminar</u> : <i>Single-cell Mechanisms for Representing Faces in an fMRI-identified Macaque Face Patch</i> |
| 3:00 – 3:30   | <b>Winrich Freiwald</b><br><i>Mechanisms of Shape Processing in Macaque Area V4</i>   |
| 3:30 – 7:30   | <b>Tea</b> (and long-term planning, e.g. planning of future proposal for a real adult center and discussion of scientific issues)   |