



NEURO GLOBAL Seminar

Title

Towards the neural basis of joint attention : the role of the superior temporal sulcus (STS) in controlling social gaze following

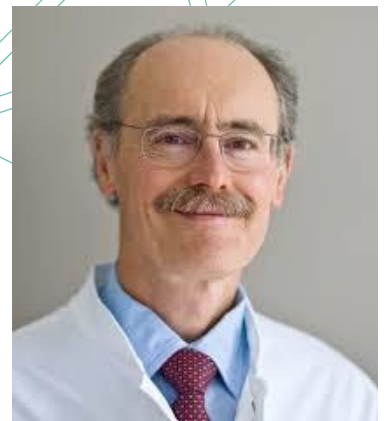
Speaker

Prof. Hans-Peter Thier

Werner Reichardt Centre for Integrative Neuroscience
/ Hertie Institute for Clinical Brain Research,
Eberhard Karls Universität Tübingen

Date

November 11 (Mon.)
16:30-18:00 (including Q&A time)



Venue

Main conference room, South Multidisciplinary Research Laboratory 2 [E03] 1F
IMRAM (Institute of Multidisciplinary Research for Advanced Materials), Katahira Campus
多元物質科学研究所 南総合研究棟2[E03] 1F 大会議室 (片平キャンパス)

<http://www.tohoku.ac.jp/japanese/profile/campus/01/katahira/areae.html>

* This seminar will be held in English.

Primates follow the other's gaze to an object of interest to the other, allowing the two agents to establish joint attention. Whereas humans exploit both eye and head gaze cues, monkeys rely mostly on head gaze. This difference notwithstanding, human gaze and monkey gaze following have similar functional features, qualifying them as domain specific capacities that share similar, possibly homologous neural architectures. A central hub in a putative network subserving gaze following is a distinct patch of cortex in the STS. As shown by our comparative fMRI work this gaze following patch (GFP) is selectively activated if observers shift attention to a target determined by the other's gaze. The monkey GFP contains a distinct set of gaze following neurons that seem to establish a linkage between the other's gaze direction and the object, singled out by the other's gaze, if this linkage is pertinent within the prevailing context. Microstimulation of the monkey GFP establishes a causal role of these neurons. If microstimulation is applied in a period in which the information needed for the linkage between gaze and object becomes available, gaze following is compromised. In short, the GFP plays a causal role in orchestrating gaze following and its executive control.

Neuro Globalプログラム生 (Neuro Global Program Students)

【脳科学セミナーシリーズEx】／【先進脳科学セミナーシリーズEx】セミナー 1 point

【Brain Science Seminar Series Ex】／【Advanced brain science seminar series Ex】 1 point

医学系研究科 (Graduate School of Medicine)

【医学履修課程】国際交流セミナー

【Medical Science Doctoral Course】International Interchange Seminar

生命科学系研究科 (Graduate School of Life Sciences)

【単位認定セミナー】単位認定セミナーとしてポイントを付与します。(1ポイント)

【A credit-granted seminar】Some points will be granted to the students who will attend this seminar. (1 point)

【お問い合わせ、当日の学生対応】生命科学系研究科脳神経システム分野 筒井 健一郎 E-mail: tsutsui@tohoku.ac.jp

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