

State Transitions



G. E. Fogg Building
School of Biological and Chemical
Sciences
Mile End Road
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UK

<http://www.statetransitions.org.uk/>

Saturday 28 July 2007

17.00 Arrival. Display posters.

18.30 Reception. View posters.

Sunday 29 July 2007

Session 1. Chairman; Conrad Mullineaux (Queen Mary, University of London)

09.00 John F. Allen
Queen Mary, University of London, UK

Introduction. A timeline. Towards a structural description of the mechanism of state transitions

09.30 Discussion

09.40 Yuichiro Takahashi
Okayama University, Japan
Dynamics of structure and function of photosystem I

10.10 Discussion

10.20 Nathan Nelson

Tel Aviv University, Israel
The structure of a plant photosystem I supercomplex at 3.4 Å resolution

10.50 Discussion

11.00 COFFEE, TEA

Session 2. Chairman; George C. Papageorgiou (NCSR Demokritos, Athens)

11.30 Masakazu Iwai

Hokkaido University, Japan
Detachment of mobile light-harvesting complex II from photosystem II during state transitions in *Chlamydomonas reinhardtii*

12.00 Discussion

12.10 Joanna Kargul

Imperial College London, UK
The light harvesting complex II antenna protein CP29 facilitates photosynthetic state transitions

12.40 Discussion

12.50 BREAK FOR LUNCH

Session 3. Chairman; Alfred R. Holzwarth (Max-Planck-Institut für Bioorganische Chemie, Mülheim)

14.00 Alexander Ruban

Queen Mary, University of London, UK

Spectroscopy of state transitions: analysing dynamics of antenna cross-section

14.30 Discussion

14.40 Győző Garab

Biological Research Center, HAS, Hungary
Macro-organization and thermo-optically induced reorganizations of light-harvesting antennae

15.10 Discussion

15.20 Chunhong Yang

Institute of botany CAS, Beijing, P. R. China

Structural and functional properties of the major light harvesting Chl a/b complex of photosystem II in liposome membrane environment

15.50 Discussion

16.00 TEA; COFFEE

Session 4. Chairman; Gyöző Garab (Biological Research Center, Hungarian Academy of Sciences)

16.30 Jakob Thomas Damkjær

UPSC, Sweden

Characterisation of koLhcb3 state transition and megacomplex structure phenotypes

17.00 Discussion

17.10 Yuliya Miloslavina

Max-Planck-Institute, Germany

State transition is the first step in the reorganization of thylakoid membranes in the nonphotochemical quenching

17.40 Discussion

18.30 Dinner at L'Oasis, Mile End Road

Monday 30 July 2007

Session 5. Chairman; John F. Allen (Queen Mary, University of London)

09.00 Jean-David Rochaix

University of Geneva, Switzerland

Analysis of thylakoid protein kinases involved in photosynthetic acclimation

09.30 Discussion

09.40 Giovanni Finazzi

UMR 7141 CNRS Université Paris 6, France

On the relationship between plastoquinone reduction and stt7 kinase activation

10.10 Discussion

10.20 Thomas Pfannschmidt

FSU Jena, Germany

The relationship of the long-term light quality acclimation and state transitions

10.50 Discussion

11.00 Conference group

photograph; then COFFEE, TEA

Session 6. Chairman; Norbert Krauß (Charité - Universitätsmedizin Berlin)

11.30 Sujith Puthiyaveetil

Queen Mary, University of London, UK

Redox signalling in the chloroplast: the two-component systems

12.00 Discussion

12.10 Hrvoje Fulgosi

Ruder Boskovic Institute, Croatia

The role of TROL protein in regulation of linear electron flow. Implications on nuclear gene expression.

12.40 Discussion

12.50 BREAK FOR LUNCH

Session 7. Chairman; Nathan Nelson (Tel Aviv University)

14.00 Conrad Mullineaux

Queen Mary, University of London, UK

State transitions and phycobilisome-reaction centre association in cyanobacteria

14.30 Discussion

14.40 Kostas Stamatakis

NCSR Demokritos, Greece

Chlorophyll a fluorescence induction in the cyanobacterium *Synechococcus* sp PCC 7942: Analysis of the slow induction phase

15.10 Discussion

15.20 Ondrej Komarek

Institute of Systems Biology and Ecology, Czech Republic

State transitions and Chla fluorescence of *Synechocystis* 6803 WT and rpaC mutant in harmonically modulated light.

15.50 Discussion

16.00 TEA; COFFEE

Session 8. Chairman; Alexander Ruban (Queen Mary, University of London)

16.30 Merope Tsimilli-Michael

NCSR Demokritos, Greece

Investigation of the Kautsky curve OJIPSM(T) in *Synechococcus* sp PCC 7942 (10^{-5} - 10^3 s) and a method to determine the (Chl a)PSII fluorescence component

17.00 Discussion

17.10 Gábor Bernát

Ruhr-Universität Bochum, Germany

PetP: when state transition experiments led to the discovery of a new cytochrome b6/f subunit...

17.40 Discussion

17.50 End of Session 8. View posters.

Tuesday 31 July 2007

Session 9. Chairman; Jean-David Rochaix (University of Geneva)

09.00 Mikko Tikkanen

University of Turku, Finland

State transitions: Balancing of light reactions and carbon assimilation

09.30 Discussion

09.40 Maitrayee DasGupta

University of Calcutta, India

Irradiance dependent transient phosphorylation of LHCII: Investigating the mechanism(s) governing the span of transience.

10.10 Discussion

10.20 Powikrowska Marta

Warsaw University, Poland

The biochemical and functional properties of PSII from mesophyll and bundle sheath chloroplast of maize (*Zea mays*)

10.50 Discussion

11.00 COFFEE, TEA

Session 10. Chairmen; John F. Allen and Conrad Mullineaux (Queen Mary, University of London)

11.30 Discussion of selected poster presentations

12.10 General Discussion

12.50 End of Meeting