



## SE2B International Scientific Conference

### Nanoscale Dynamics of the Thylakoid Pigment-Protein Complexes

20<sup>th</sup> to 22<sup>nd</sup> of February 2018

Naantali Spa Hotel, Matkailijantie 2, FI-21100 Naantali, Phone +358 2 44 55 100,  
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in Ball Room Conference Hall, -1 floor

#### Tuesday 20<sup>th</sup>

- 16:00 – 18:30 Registration, poster hanging, possibility for spa
- 18:45 – 19:00 **Welcome words: Claudia Buechel**
- 19:00 – 19:40 **Key Note Lecture 1: Alexey Amunts**, Stockholm, Sweden  
*Advances in cryo-EM for studies of pigment-protein complexes*
- 20:00 – Dinner in Naantali Spa

#### Wednesday 21<sup>st</sup>

**Chair: Claudia Buechel**

- 09:00 – 09:30 **Introductory lecture: Eva-Mari Aro**, Turku, Finland  
*Photosynthetic light reactions – evolutionary view*
- 09:30 – 10:10 **Key Note Lecture 2: Nathan Nelson**, Tel Aviv, Israel  
*X-ray structures of thylakoid complexes*

#### Thylakoid organization and structural components

- 10:10 – 10:40 **Conrad Mullineaux**, London, United Kingdom  
*Supramolecular organisation and dynamics of cyanobacterial thylakoid membranes*
- 10:40 – 11:00 Coffee break, networking and poster viewing  
**Chair: Alexander Ruban**
- 11:00 – 11:30 **Claudia Buechel**, Frankfurt am Main, Germany  
*Thylakoid membrane adhesion in diatoms*
- 11:30 – 11:45 **Claudio Calvaruso**, Frankfurt am Main, Germany  
*Thylakoid membrane architecture in diatoms*



- 11:45 – 12:25 **Key Note Lecture 3: Stefano Caffarri**, Marseille, France  
*Purification and structural characterization of plant photosystem supercomplexes*
- 12:25 – 12:40 **Steffen Grebe**, Turku, Finland  
*Characterization of photosynthetic complexes in *Picea abies**
- 12:40 – 14:00 Lunch

### Light harvesting and energy quenching

**Chair: Roberto Bassi**

- 14:00 – 14:30 **Diana Kirilovsky**, Saclay, France  
*Cyanobacterial state transitions and the strange *ApcD* mutant of *Synechococcus elongates**
- 14:30 – 14:45 **Ahmad Farhan Bhatti** (Emilie Wientjes), Wageningen, Netherlands  
*Excitation energy trapping in dark and light adapted cyanobacteria*
- 14:45 – 15:15 **Roberta Croce**, Amsterdam, Netherlands  
*Carotenoids in light-harvesting regulation*
- 15:15 – 15:30 **Vincenzo Mascoli**, Amsterdam, Netherlands  
*Light-harvesting and photo-protection in the minor antenna CP29 of plants*
- 15:30 – 16:30 Coffee break, networking and poster viewing
- Chair: Roberta Croce**
- 16:30 – 17:00 **Aleksander Ruban**, London, United Kingdom  
*Recent developments in the NPQ research*
- 17:00 – 17:15 **Francesco Saccon**, London, United Kingdom  
*Femtosecond stimulated Raman spectroscopy applied to light-harvesting complexes of higher plants*
- 17:15 – 17:30 **Fernando Muzzopappa**, Saclay, France  
*Role of soluble carotenoid proteins in cyanobacterial photoprotection*
- 17:30 – No evening program, enjoy the spa and explore Turku or Naantali!

### Thursday 22<sup>nd</sup>

**Chair: Diana Kirilovsky**

- 09:00 – 09:30 **Roberto Bassi**, Verona, Italy  
*The Light-Harvesting Stress Related protein catalyzing quenching of both PSI and PSII antenna systems in *Physcomitrella patens**
- 09:30 – 09:45 **Christo Schiphorst**, Verona, Italy  
*Functional analysis of LHCSR1 by heterologous expression in *A. thaliana**



- 09:45 – 10:15 **Herbert van Amerongen**, Wageningen, Netherlands  
*Dynamic feedback of the photosystem II reaction center on photoprotection in plants*
- 10:15 – 10:45 **Eevi Rintamäki**, Turku, Finland  
*NADPH-dependent thioredoxin system in regulation of NPQ*
- 10:45 – 11:30 Coffee break, networking and poster viewing

### **Thylakoid dynamics in response to environmental conditions**

**Chair: Bruno Robert**

- 11:30 – 11:45 **Moontaha Mahbub**, London, United Kingdom  
*Spatial organisation of assembly and repair processes in cyanobacterial thylakoid membranes*
- 11:45 – 12:15 **Alizee Malnoe**, Umeå, Sweden  
*Characterization of lipocalin-dependent sustained NPQ in Arabidopsis*
- 12:15 – 12:45 **Roman Kouřil**, Olomouc, Czech Republic  
*Structural changes of the Photosystem II supercomplex in Arabidopsis thaliana under NPQ conditions*
- 12:45 – 14:00 Lunch

**Chair: Herbert van Amerongen**

- 14:00 – 14:30 **Mikko Tikkanen**, Turku, Finland  
*Light-induced lateral rearrangements of hierarchically assembled thylakoid protein complexes*
- 14:30 – 14:45 **Rameez Arshad**, Groningen, Netherlands  
*Molecular structures of photosynthetic super-complexes under different conditions*
- 14:45 – 15:00 **Pushan Bag**, Umeå, Sweden  
*Seasonal photosynthetic adaptations in conifers to stay green in winter*
- 15:00 – 15:30 **Bruno Robert**, Yvette, France  
*Towards super-resolution microscopy in photosynthesis. Methodological aspects.*
- 15:30 – 15:45 **Simona Streckaité**, Yvette, France  
*Super-resolution approach for the photosynthetic membranes*
- 15:45 – 16:15 **Closing lecture: Stefan Jansson**, Umeå, Sweden  
*Political Psbs*
- 16:15 – 17:15 Coffee break, networking and poster viewing
- 20:00 – Dinner in Naantali Spa, Seaview Lounge