

# CYANO2026

# SCHEDULE

10<sup>TH</sup> EARLY CAREER RESEARCHER  
SYMPOSIUM ON CYANOBACTERIA

SUNDAY  
**06**  
SEPTEMBER

## VENUE:

Auditorium, University of South Bohemia,  
Studentská 1410/23, České Budějovice, Czech Republic

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## CONFERENCE BEGINS

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| 14:30 – 16:30 | Registrations and welcome coffee |
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| 16:30 – 16:50 | Opening remarks |
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| 16:50 – 17:30 | <b>KEYNOTE TALK:</b> Prof. Roman Sobotka<br><i>Algatech, Chlorophyll and other friends</i> |
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| 17:30 – 20:00 | Welcome reception |
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More information on our webpage  
Follow us on LinkedIn

Contact us: [cyano2026@alga.cz](mailto:cyano2026@alga.cz)

## DIVERSITY, EVOLUTION & ECOLOGY

Chair: Ondřej Nykles

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| 09:00 – 09:05 | Briefing                                                                                                                                                                                                   |
| 09:05 – 09:45 | <b>KEYNOTE TALK:</b> Dr. Jan Mareš<br><i>Tracking cyanotoxin producers involved in animal poisonings</i>                                                                                                   |
| 09:45 – 10:00 | <b>TALK:</b> Sonam<br><i>Integrative Taxonomic Exploration of Cyanobacteria reveals a Novel Morphotype from the Indian Subcontinent</i>                                                                    |
| 10:00 – 10:15 | <b>TALK:</b> Federica Frascogna<br><i>Evolutionary insights into bilin biosynthesis: Functional characterization of pre-PcyA enzymes</i>                                                                   |
| 10:15 – 10:30 | <b>TALK:</b> Tomáš Zavřel<br><i>Phenotyping Ethylene-Producing Cyanobacteria: Deciphering the Interplay Between Culture Density, Light Availability, Size of Metabolic Sinks and Ethylene Productivity</i> |
| 10:30 – 11:00 | Coffee break                                                                                                                                                                                               |

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## PHOTOSYNTHESIS & BIOENERGETICS

Chair: Sadanand Gupta

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| 11:00 – 11:40 | <b>KEYNOTE TALK:</b> Dr. Dmitry Shvarev<br><i>Revisiting the chlorophyll biosynthesis machinery through cryoEM</i>                                        |
| 11:40 – 12:00 | <b>FLASHTALK:</b> Florian Paul<br><i>Engineering the Photosystem I-Hydrogenase Interface for Photosynthetic Hydrogen Production</i>                       |
|               | <b>FLASHTALK:</b> Guillem Pascual Aznar<br><i>The role of the protein Sll1071 in the repair cycle of PSII in the cyanobacterium Synechocystis PCC6803</i> |
|               | <b>FLASHTALK:</b> Lenka Tomanová<br><i>Membrane bending proteins define biogenesis zones in cyanobacteria</i>                                             |

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## PHOTOSYNTHESIS & BIOENERGETICS

Chair: Guillem Pascual Aznar

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| 12:00 – 13:00 | Lunch                                                                                                                                                        |
| 13:00 – 13:15 | <b>TALK:</b> Anna Frank<br><i>Catching a Fleeting Encounter. Cryo-EM Structure of the Cyanobacterial PSI-Cyt c6 Complex</i>                                  |
| 13:15 – 13:30 | <b>TALK:</b> Vjosa Berisha<br><i>Synechocystis CurT: Functional analysis of post-translational phosphorylated CurT isoforms</i>                              |
| 13:30 – 13:45 | <b>TALK:</b> Jann Buttlar<br><i>A high-resolution method to analyze the proton motive force (PMF) in the cyanobacterium Synechocystis sp. PCC6803</i>        |
| 13:45 – 14:00 | <b>TALK:</b> Nicola Sekularac<br><i>Viral Take-over of Host Photosynthetic Electron Transport: Investigating the role of Cyanophage-encoded Plastocyanin</i> |
| 14:00 – 14:15 | <b>TALK:</b> Dima Deeb<br><i>Growth Phase Dynamics of Cyanobacteria and their relationship to Cell Division</i>                                              |
| 14:15 – 14:30 | Group picture                                                                                                                                                |
| 14:30 – 15:00 | Coffee break                                                                                                                                                 |

## CELL BIOLOGY & PHYSIOLOGY

Chair: Parisa Rahim Zadeh Karvansara

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| 15:00 – 15:40 | <b>KEYNOTE TALK:</b> Dr. Sofía Doello<br><i>Resuscitation from metabolic dormancy in cyanobacteria</i>             |
| 15:40 – 15:55 | <b>TALK:</b> Arthur Guljamow<br><i>Influence of the cyanotoxin Microcystin on Carbon Fixation in Cyanobacteria</i> |

## Cell biology &amp; physiology continues...

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| 15:55 – 16:10 | <b>TALK:</b> Natálie Protić<br><i>Rewiring the Nitrogen Stress Response to Boost Glycogen Production in Cyanobacteria</i>                                                                                                                                                                                                                                                   |
| 16:10 – 16:25 | <b>TALK:</b> Thomas Wallner<br><i>A novel player in c-di-GMP signalling and type IV pilus-dependent functions</i>                                                                                                                                                                                                                                                           |
| 16:25 – 16:40 | <b>TALK:</b> Jonas Hammerl<br><i>Establishment of cell polarity in cyanobacterial phototaxis</i>                                                                                                                                                                                                                                                                            |
| 16:40 – 17:00 | <b>FLASHTALK:</b> Surbhi Sharma<br><i>FtsH4-Mediated Control of Carbon Uptake in Synechocystis sp. PCC 6803</i><br><br><b>FLASHTALK:</b> José Martínez Yerena<br><i>How to get fully modified nostatin A: lesson of poor compatibility of rSAM enzyme with E. coli metabolism.</i><br><br><b>FLASHTALK:</b> Orsolya Jánosi<br><i>The population growth of cyanobacteria</i> |
| 17:00 – 18:30 | Poster session (Odd numbers)                                                                                                                                                                                                                                                                                                                                                |

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**GENE EXPRESSION & REGULATION**

Chair: Vendula Krynická &amp; Mukut Mayur Murlidhar Sharma

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| 09:00 – 09:05 | Briefing                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 09:05 – 09:45 | <b>KEYNOTE TALK:</b> Dr. Jürgen Tomasch<br><i>Bacterial Gene Expression shapes the three-dimensional Chromosome Conformation</i>                                                                                                                                                                                                                                                                                                                    |
| 09:45 – 10:00 | <b>TALK:</b> Elisabeth Lichtenberg<br><i>The fate of RNA in Cyanobacteria: Subcellular transcriptome organization in Synechocystis sp. PCC 6803</i>                                                                                                                                                                                                                                                                                                 |
| 10:00 – 10:15 | <b>TALK:</b> Mukulika Mandal<br><i>Navigating the RNA landscape: LIGR-Nue reveals the global RNA-RNA interactome of Synechocystis</i>                                                                                                                                                                                                                                                                                                               |
| 10:15 – 10:30 | <b>TALK:</b> Hitesh Kumar Reddy Medipally<br><i>Do we have a problem with protein expression in cyanobacteria?</i>                                                                                                                                                                                                                                                                                                                                  |
| 10:30 – 11:00 | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11:00 – 11:15 | <b>TALK:</b> Sofia Kerestetzopoulou<br><i>Development of an expression platform for nonribosomal peptides in symbiotic cyanobacteria of the genus Nostoc</i>                                                                                                                                                                                                                                                                                        |
| 11:15 – 11:30 | <b>TALK:</b> José Ángel Moreno-Cabezuelo<br><i>Systematic Evaluation of Signal Peptide-Driven Protein Secretion in the Fast-Growing Cyanobacterium Synechococcus sp. PCC 11901</i>                                                                                                                                                                                                                                                                  |
| 11:30 – 12:00 | <b>FLASHTALK:</b> Angelo Joshua Victoria<br><i>Exploring Strain-Level Variation in Extracellular Electron Transfer Capabilities of Cyanobacteria</i><br><br><b>FLASHTALK:</b> Carlos Emmanuel Guia Panerio<br><i>Assembly of Heterologous Bacterial Microcompartments in Cyanobacteria</i><br><br><b>FLASHTALK:</b> Berness Peter Falcao<br><i>Cyanobacterial siderophore cyanochelin B is involved in iron provision to diverse microorganisms</i> |

## Gene expression & regulation continues...

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continue... **FLASHTALK:** Anne-Christin Pohland  
*Sustainable Carbon Capture through Biomineralisation: Engineering Cyanobacteria for Bicarbonate Accumulation via Extracellular Carbonic Anhydrase*

**FLASHTALK:** Anastasia Fridman  
*From Sunlight to Proteins: Engineering Cyanobacteria for Sustainable High-Yield Recombinant Protein Production*

**FLASHTALK:** Shaubhik Anand  
*Nutraceutical Potential of Cyanobacteria Isolated from Various Habitats of the Indian Subcontinent*

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12:00 – 13:00      Lunch

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13:00 – 17:00      **SOCIAL ACTIVITY**  
Algatech + Brewery / Hluboká Castle Visit / Hike to Kleť  
  
*Participants will join the activity of their choice, as selected during registration.*

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17:00 – 18:30      Poster session (Even numbers)

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18:30 – open  
end                  Dinner party

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## BIOTECHNOLOGY & NATURAL PRODUCTS

Chair: Katarina Kurtović

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| 09:00 – 09:05 | Briefing |
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| 09:05 – 09:45 | <b>KEYNOTE TALK:</b> Dr. Paul D'Agostino<br><i>Discovery and application of furanolide biosynthetic machinery</i> |
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| 09:45 – 10:00 | <b>TALK:</b> Divya Singh<br><i>Unlocking Nostatine X Biosynthesis Through Heterologous Expression and Gene Knockout Analysis</i> |
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| 10:00 – 10:15 | <b>TALK:</b> Jan Mašek<br><i>General and unique – characteristics of cyanobacterial TonB-dependent transporters</i> |
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| 10:15 – 10:30 | <b>TALK:</b> Anh Vu Nguyen<br><i>Harnessing cyanobacterial biofilm for high current production in biophotovoltaics</i> |
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| 10:30 – 11:00 | Coffee break |
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| 11:00 – 11:15 | <b>TALK:</b> Sarada Raghunathan<br><i>Enhanced Hydrocarbon production by engineering Synechocystis sp. PCC 6803</i> |
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| 11:15 – 11:30 | <b>TALK:</b> Nadine Strabel<br><i>Electron confurcation drives photosynthetic H<sub>2</sub> production in cyanobacteria</i> |
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| 12:00 – 13:00 | <b>DISCUSSION WITH PANEL</b><br><i>Science Beyond the Bench</i> |
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| 13:00 – 13:30 | <b>CLOSING CEREMONY</b><br><i>Prizes and goodbyes...</i> |
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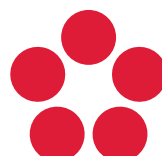


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