Poster Session List

Basal bodies, assembly of the flagellar axoneme, and motility

P-01. Che-Chia Tsao (National University of Tainan)
Chlamydomonas IC140 is essential for flagellar assembly while *B9D1* affects the level of intraflagellar transport proteins and is dispensable for structural integrity of the transition zone

P-02. Akira Noga (University of Tokyo**)**
Dynamic interaction between cartwheel and triplet microtubules establishes the nine-fold symmetry of the centriole

P-03. Haru-aki Yanagisawa (University of Tokyo)
Identification and characterization of axonemal MIPs (microtubule inner proteins)

P-04. Winfield Sale (Emory University)
The flagellar N-DRC and B-tubule polyglutamylation are required for flagellar axoneme integrity and outer doublet alignment

P-05. Susan Dutcher (Washington University)
The *pf23* mutant is defective in the *DYX1C1* gene and fails to assemble the majority of the inner dynein arms in the axoneme

P-06. Jenna Wingfield (University of Georgia)
Sequential assembly of IFT trains as revealed by *in vivo* imaging

P-07. Akinori Koitabashi (Tokyo Institute of Technology)
Isolation of a non-phototactic *Chlamydomonas* mutant that shows alternate flagellar beatings

P-08. Toshiki Yagi (Prefectural University of Hiroshima)
Resurrection of flagellar bending movements in *chlamydomonas* paralyzed mutants at high pressure

P-09. Hitoshi Sakakibara (National Institute of Information and Communications Technology)
Properties of the purified radial spokes of *Chlamydomonas* flagella

P-10. Di Jin (University of Cambridge)
Transport of *Chlamydomonas* in an air-lift photobioreactor under gravitactic effects

Carbon metabolism and biofuels

P-11. Christina Marx (Ruhr-University Bochum)
Tools for facilitating and monitoring high transgene expression in the C. *reinhardtii* chloroplast

P-12. Pei-Luen Jiang (National Dong-Hwa University)
Environmental stress on Cell Morphology and Physiology of dinoflagellate

P-13. Marika Yamauchi (Ochanomizu University)
Autophagy-related gene ATG3 is essential for the cell survival of *Chlamydomonas reinhardtii* under nitrogen-starvation conditions

P-14. Yasuyo Yamaoka (POSTECH)
A transcription factor which is important for the unfolded protein response regulates lipid biosynthesis in *Chlamydomonas reinhardtii*

P-15. Jin Liu (Peking University)
Characterization of *Chlamydomonas* diacylglycerol acyltransferases reveals their distinct substrate specificities and functions in triacylglycerol biosynthesis

P-16. Yuki Kasai (Chuo University)
Cre/*loxP* mediated selectable marker gene recycling in green microalgae

P-17. Hanul Kim (Pohang University of Science and Technology)
Strategy for characterizing the putative ABC transporters functional in lipid metabolism in *Chlamydomonas reinhardtii*

P-18. Ching-Nen Nathan Chen (National Sun Yat-sen University)
Production of long chain omega-3 fatty acids and carotenoids in tropical areas by a new heat-tolerant microalga *Tetraselmis* sp. DS3

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P-19. Yeongho Kim (University of Nebraska-Lincoln)
A prokaryotic-like 1-acylglycerol-3-phosphate acyltransferase is required for triacylglycerol synthesis in *Chlamydomonas*

P-20. Yasuyo Yamaoka (POSTECH)
Identification of a *Chlamydomonas* plastidial 2-lysophosphatidic acid acyltransferase and its use to engineer oil content

P-21. Masako Iwai (Tokyo Institute of Technology)
A phosphorus starvation–inducible promoter from *Chlamydomonas reinhardtii* is effective in manipulating TAG synthesis in *Nannochloropsis* strain NIES-2145 during P starvation

P-22. Kyohei Yamashita (Tokyo University of Science)
Method of hydrogen photoproduction in green algae *Chlamydomonas reinhardtii* sustainable over 10 days with the optimal condition without supply of fresh cells nor exchange of the whole culture medium

P-23. Osami Misumi (Yamaguchi University)
Unicellular red alga *Cyanidioschyzon merolae* accumulates storage glucan and triacylglycerol under nitrogen depletion

P-24. Hyungi Koh (KAIST)
The evaluation of SAM methylation and UGPase activity on growth and lipid contents of diverse algal strains including *C. reinhardtii*

P-25. Liyan Wang (Shenzhen University)
Cloning and characterization of beta-carotene ketolase gene (*bkt2*) promoter from *Haematococcus pluvialis*

P-26. Kamil Bakowski (University of Copenhagen)
Lipid Droplets as a new platform for assembly of biosynthetic pathways in *Chlamydomonas reinhardtii*

P-27. **Masahiro Tamoi (**Kindai University)
Enhancement of photosynthetic capacity in *Euglena gracilis* by genetic engineering of the Calvin cycle leads to increases in biomass and wax ester production

P-28. **Takahisa Ogawa** (Shimane University)
Identification and characterization of chloroplastic and cytosolic fructose-1,6-bisphosphatases from *Euglena gracilis*

P-29. **Kaeko Kurihara** (Shimane University)
Identification of genes encoding enzymes involved in wax ester metabolism in *Euglena gracilis*

P-30. **Bolatkhan Kazykhanuly Zayadan** (Al-Farabi Kazakh National University)
Isolation of new cyanobacteria strains –fatty acids producers as prospective source for biodiesel production from different ecosystems of Kazakhstan

P-31. **Yuji Tanaka** (Shimane University)
Identification of paramylon synthase using transcriptome analysis in *Euglena gracilis*

P-32. **Shigeru Okada** (University of Tokyo)
Characterization of a bifunctional farnesol kinase-like protein from the green microalga *Botrycoccus braunii* race B.

P-33. V.M. Emmanuel Nuestro Ferriols (University of Tokyo)
Farnesyl pyrophosphate is involved in the final steps for highly branched isoprenoid biosynthesis in the marine diatom *Rhizosolenia setigera*

P-34. **Hiromasa Nakamura** (University of Tokyo)
Effects of 2-azahypoxanthine on extracellular terpene accumulations of the green alga *Botryococcus braunii* Showa

P-35. **Naoki Sato** (University of Tokyo)
Accumulation and localization of oil bodies in *Chlamydomonas reinhardtii* and *Chlamydomonas debaryana*

P-36. **Zayadan Bolatkhan** (Al-Farabi Kazakh National University)
Microalgae Isolation and Selection from hot springs for Prospective Biodiesel Production

P-37. **Javiera Ziehe** (University of Manchester)

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Identification of MYB transcription factors involved in carbon storage metabolism in *Chlamydomonas reinhardtii*

Emerging technologies and new directions in *Chlamydomonas* biology

P-38. **Eun-Jeong Kim** (University of Nebraska-Lincoln)
A Vasa Intronic Gene (VIG) homolog is required for RNA interference in *Chlamydomonas*

P-39. Matt Laudon (University of Minnesota)
Chlamydomonas Resource Center

P-40. Francisco Navarro (University of Cambridge)
Harnessing the regulatory potential of miRNAs to control gene expression in *Chlamydomonas reinhardtii*

P-41. Kwangryul Baek (Hanyang University)
Targeted gene knockout in *Chlamydomonas reinhardtii* via DNA-free CRISPR-Cas9 ribonucleoproteins

Evolution and diversity

P-42. Hiroko Kawai-Toyooka (University of Tokyo)
Evolution of volvocine mating-type/gender-specific genes deduced from *de novo* genome sequencing of isogamous *Yamagishiella* and anisogamous *Eudorina*

Genetic control of the life cycle

P-43. Wenshuang Li (Friedrich Schiller University Jena)
Search for new interaction partners of XRN1 from *Chlamydomonas reinhardtii*

P-44. **Thamali Kariyawasam** (University of British Columbia)
Insertional mutagenesis of *Chlamydomonas reinhardtii* in identifying genes involved in unicellular diploid development

P-45. Dianyi Liu (Donald Danforth Plant Science Center)
Testing the constancy of the nuclear:cell (N:C) volume ratio in *Chlamydomonas reinhardtii*

P-46. **Dianyi Liu** (Donald Danforth Plant Science Center)
A new class of cyclin dependent kinase in *Chlamydomonas* is required for coupling cell size to cell division

P-47. Monika Hlavová (Institute of Microbiology CAS)
Characterization of WEE1 regulation mutant of the green alga *Chlamydomonas reinhardtii* in the response to DNA damage

P-48. Ivan Ivanov (Institute of Microbiology CAS)
The effect of sub-lethal temperature on the cell cycle in *Chlamydomonas reinhardtii*

P-49. Kateřina Bišová (Institute of Microbiology CAS)
Changes in CDK activity - the cause or result of the cell cycle alterations upon temperatures shifts?

P-50. Vilém Zachleder (Institute of Microbiology CAS)
Temperature shifts affect cell cycle progression in green algae

P-51. **Sunjoo Joo** (University of British Columbia)
Global transcriptome analysis of the zygote developmental program in *Chlamydomonas reinhardtii*

P-52. **Thamali Kariyawasam** (University of British Columbia)
Generation of *Chlamydomonas* polyploids using mutants with early zygote defects

P-53. **Ichiro Nishii** (Nara Women's University)
Characterization of septin involved in cell cleavage of *Chlamydomonas reinhardtii*

Light perception and photomovement

P-54. **Alberto Natali** (VU University Amsterdam)
Over-expression of membrane proteins in *Chalmydomonas reinhardtii*: a comparative analysis of membrane proteins incorporation in thylakoids

P-55. **Takahiro Ide** (Tokyo Institute of Technology)
Identification of the *agg1* mutation responsible for negative phototaxis in a "wild-type" strain of *Chlamydomonas reinhardtii*

P-56. **Azusa Kage** (Tohoku University)

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Reassessment of gravitactic mutant strains of *Chlamydomonas reinhardtii*

P-57. **Kenneth Foster** (Syracuse University)
How eukaryotic flagella and cilia beat

Omics/Systems biology

P-58. **Susan Dutcher** (Washington University)
Identification of fidelity factors for mRNA splicing

P-59. **Jihyun Lee** (POSTECH)
Strategy for Identification of Key Regulators of Lipid Accumulation in *Chlamydomonas reinhardtii*

P-60. **Stefan Schulze** (University of Muenster)
Insertional Mutagenesis of Mannosidase I and Xylosyltransferase Modifies the N-Glycan Composition of *Chlamydomonas reinhardtii*

P-61. **Wang Jiangxin** (Shenzhen University)
High-throughput proteomics and metabolomics reveal butanol resistance mechanisms in *Chlamydomonas reinhardtii*

Organelles

P-62. **Jessica Jacobs** (Ruhr-University Bochum)
A spliceosome-like chloroplast ribonucleoprotein complex promotes group II intron trans-splicing

P-63. Anne Sawyer (Ruhr-University Bochum)
Maturation and assembly of iron sulfur proteins in the *Chlamydomonas reinhardtii* chloroplast

P-64. Yusuke Kobayashi (Kyoto University)
The macroevolution of chloroplast nucleoids during green plant evolution

P-65. Mari Takusagawa (Yamaguchi University)
Tandem HMG-box protein homologous to major mitochondrial nucleoid protein is a component of chloroplast nucleoids of *Chlamydomonas reinhardtii*

P-66. **Masaki Odahara** (Rikkyo University)
Dynamic interplay between nucleoid segregation and genome integrity through the action of RECA and gyrases in *Chlamydomonas* chloroplasts.

Photosynthesis

P-67. **Cuimin Liu** (Institute of Genetics and Developmental Biology, Chinese Academy of Sciences)
Structural insight into the cooperation and functional partition of chloroplast chaperonin subunits

P-68. Bujaldon Sandrine (CNRS/UPMC)
The functional accumulation of antenna proteins in chlorophyll *b*-less mutants of *Chlamydomonas reinhardtii*

P-69. Hiroshi Kuroda (Okayama University)
Mutation at Asn298 of D1 subunit on photosystem II impairs S state transition

P-70. Shin-Ichiro Ozawa (Okayama University)
Determination of arrangement of nine light-harvesting chlorophyll complexes in Photosystem I supercomplex by chemical cross-linking in the green algae *Chlamydomonas reinhardtii*

P-71. Natsumi Kodama (Okayama University)
Immunochemical characterization of peripheral antenna complexes in BF4 and P71 mutants

P-72. Felix Buchert (CNRS-UPMC)
Biochemical analysis of the dynamic interaction between auxiliary proteins and core components of the CEF supercomplex

P-73. Luke Mackinder (Carnegie Institution for Science)
High-throughput protein localization and affinity purification mass spectrometry reveals the structural organization of the pyrenoid

P-74. Vivian Chen (Carnegie Institution for Science)
An EPYC1 Story: Repeat protein required for Rubisco to assemble into the eukaryotic carbon-concentrating organelle

P-75. Yousef Yari Kamrani (National Institute for Basic

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Biology)
Genetic investigation of the molecular mechanisms involved in the light stress responses of the photosynthetic machinery in *Chlamydomonas reinhardtii*

P-76. Jose García-Cerdán (University of California, Berkeley)
CPSFL1, a CRAL_TRIO lipophilic binding domain protein essential for photoautotrophic growth in *Chlamydomonas reinhardtii*, modulates carotenoid accumulation in the chloroplast

P-77. Pawel Brzezowski (CEA Cadarache)
PSI Acceptor-side limitation and acclimation: new molecular players to light the path between the photosynthetic electron transfer chain and metabolism

Stress/Acclimation

P-78. Feifei Xu (Tsinghua University)
An organelle K^+ channel is required for osmoregulation in *Chlamydomonas reinhardtii*

P-79. Hancheol Jeon (Hanyang University)
Identification of the carbonic anhydrases from the unicellular green alga *Dunaliella salina* strain CCAP-19/18

P-80. Chisato Murota (Tokyo University of Pharmacy and Life Sciences)
Relationship between gene expression of phosphate transporter and arsenate resistance in *Chlamydomonas*

P-81. Chao Wang (Shenzhen University)
Transcriptomic analysis reveals numbers transcription factors involved in high light and sodium acetate stresses in *Haematococcus pluvialis*

P-82. Jacob Alexander Munz (University of British Columbia)
Deciphering the transcriptional regulation of nitrogen starvation responses in *Chlamydomonas reinhardtii*

P-83. Haruka Shinkawa (Kyoto University)
Phosphoproteomic analysis of a mutant of YAK1-type DYRK, TAR1 under the photoautotrophic C/N-imbalanced conditions

P-84. Chihana Toyokawa (Kyoto University)
Suborganellar localization of chloroplast Ca^{2+}-binding protein CAS, a novel regulator of CO_2-concentrating mechanism, in *Chlamydomonas reinhardtii*

P-85. Yuki Niikawa (Kyoto University)
Identification of nuclear genes regulated by chloroplast calcium-sensing receptor homologue, CAS, under CO_2-limiting conditions by transcriptome analyses in *Chlamydomonas reinhardtii*

P-86. Takashi Yamano (Kyoto University)
Cooperative bicarbonate uptake into chloroplast stroma by HLA3 and LCIA in *Chlamydomonas reinhardtii*

P-87. Alan Itakura (Carnegie Institution for Science)
Characterizing a novel and critical carbon concentrating mechanism (CCM) component in *Chlamydomonas reinhardtii*