Detailed schedule

June 26 (Sunday)

15:00 - 21:00 17:00 - 18:30 18:30 - 18:35	Registration in front of the Room B-1 and PC connection check Dinner at the Hall Swan Opening remarks (Yamada Foundation)
Keynote lectures	
18:35 – 19:25	01. George Witman (University of Massachusetts Medical School) The <i>Chlamydomonas</i> flagellum: Model for basic biology and human disease
19:30 – 20:20	02. Michel Goldschmidt-Clermont (University of Geneva) Chloroplast gene expression: why so complex?
20:20 - 20:25 20:30 - 22:30	Announcements Mixer in the Room I-J-K (Poster hanging)
June 27 (Monday)	

Emerging technology

Session 1

09:00 – 09:05	Chair: Michael Schroda (Technical University of Kaiserslautern) Introduction
09:05 – 09:20	03. Andre Greiner (Humboldt-Universitaet zu Berlin) Nuclear gene targeting in motile <i>Chlamydomonas</i> strains by employment of zink-finger nucleases
09:20 – 09:35	04. Sung-Eun Shin (KAIST) Genome editing with the CRISPR/Cas9 system in <i>Chlamydomonas</i> reinhardtii
09:35 – 09:50	05. Sari Dewi Kurniasih (Kochi University of Technology) UV-mediated <i>Chlamydomonas</i> mutants endowed with enhanced expression ability of nuclear transgenes
09:50 – 10:05	06. Prasad Aiyar (Friedrich Schiller University of Jena) Establishment of an aequorin based Ca ²⁺ reporter assay in <i>Chlamydomonas reinhardtii</i>
10:05 – 10:20	07. Sahradha Albert (Max-Planck-Institute of Biochemistry) <i>In situ</i> characterization of nuclear proteasomes with cryo-electron tomography
10:20 – 10:40	Coffee break

Session 2	Basal bodies: From cell division to ciliogenesis
<u> </u>	Chair: 08. Susan Dutcher (Washington University)
10:40 – 11:05	Introduction / The role of SAS4 in mitosis
11:05 – 11:20	09. Masafumi Hirono (Hosei University) Dynamic interaction between cartwheel and triplet microtubules establishes the nine-fold symmetry of the centriole
11:20 – 11:35	10. Dhivya Kumar (University of Connecticut Health Center)A bioactive peptide amidating enzyme is required for ciliogenesis
11:35 – 11:50	11. Masayuki Onishi (Stanford University School of Medicine) Regulation of two actins and their roles in cytokinesis and other processes in <i>Chlamydomonas</i>
11:50 – 13:00	Lunch and poster hanging
13:00 - 14:00	Poster session (odd number)
14:00 – 15:00	Poster session (even number)
Session 3	Photosynthesis-1 (Photosystems)
	Chair: Kevin Redding (Arizona State University)
15:00 – 15:10	Introduction
15:10 – 15:25	12. Sreedhar Nellaepalli (Okayama University) Characterization of an assembly apparatus of PSI-LHCI supercomplex consisting of chloroplast-encoded Ycf4 and Ycf3 in a green alga <i>Chlamydomonas reinhardtii</i>
15:25 – 15:40	13. Martina Jokel (University of Turku) Alternative thylakoid electron transport pathways as a regulator of photosynthesis: from solar energy to biofuels
15:40 – 15:55	14. Michael Hippler (University of Muenster) Remodeling of photosynthetic pathways as revealed by quantitative proteomics
15:55 – 16:10	15. Alexandra Viola Bohne (Ludwig Maximilians University) Characterization of the one helix protein OHP2 and its role in photosystem II assembly in <i>Chlamydomonas reinhardtii</i>
16:10 – 16:30	Coffee break

Session 4	Light perception and photomovement
16:30 – 16:50	Chair: 16. Ken-ichi Wakabayashi (Tokyo Institute of Technology) Introduction / Visualization and quantification of the redox potential in the <i>Chlamydomonas</i> flagella
16:50 – 17:05	17. Noriko Ueki (Tokyo Institute of Technology) Eyespot-dependent determination of the phototactic sign in Chlamydomonas reinhardtii
17:05 – 17:20	18. Kyriacos Leptos (University of Cambridge) Adaptive high-fidelity phototaxis in <i>Chlamydomonas reinhardtii</i>
17:20 – 17:35	19. Wipavadee Sangadkit (Syracuse University) Responses of <i>Chlamydomonas</i> to sound and its short term memory
17:35 – 17:50	20. Maria Mittag (Friedrich Schiller University Jena) Functional analysis of a CRY-DASH from <i>Chlamydomonas reinhardtii</i>
18:00 – 19:00	Dinner at the Hall Swan
Session 5	Organelles
19:00 – 19:05	Chair: Michel Goldschmidt-Clermont (University of Geneva) Introduction
19:05 – 19:20	21. Olivier Vallon (IBPC) Small RNA sequencing reveals the dynamics of the transcriptomic landscape in the <i>Chlamydomonas</i> chloroplast
19:20 – 19:35	22. Christian Fufezan (University Muenster) About temporal kinetics of the greening process using the y-1 mutant and quantitative proteomics
19:35 – 19:50	23. Michal Shapira (Ben-Gurion University of the Negev) Redox control of chloroplast chaperones in the green algae <i>Chlamydomonas reinhardtii</i>
19:50 – 20:05	24. Pawel Brzezowski (CEA Cadarache) The link between chlororespiration and tetrapyrrole biosynthesis
20:05 – 20:20	25. Burkhard Becker (University of Cologne) The proteome of the contractile vacuole of <i>Chlamydomonas</i> reinhardtii and its implication for contractile vacuole function
20:30 – 22:30	Mixer with posters in the Room I-J-K

June 28 (Tuesday)

Session 6	Omics/Systems biology
	Chair: Olivier Vallon (IBPC)
9:00 – 9:10	Introduction
9:10 – 9:25	26. Mayra Lorenz (Technical University of Munich)
	A Chlamydomonas reinhardtii ORFeome resource for system-level
	analysis of protein-protein interactions
9:25 – 9:40	27. Yuichi Aoki (Tohoku University)
	Gene coexpression analysis of Chlamydomonas by using ALCOdb
9:40 – 9:55	28. Xiaobo Li (Carnegie Institution for Science)
	A genome-wide indexed mutant library transforms reverse genetics
	and forward genetics studies in Chlamydomonas reinhardtii
9:55 – 10:10	29. Jianhua Liu (Zhejiang University)
	Transcriptomic profiling of Dunaliella salina in response to reciprocal
	change of salinities revealed a coherent transcriptional regulation of
	metabolic enzymes involved in glycerol and its potential carbon sources
	Sources
10:10 - 10:30	Coffee break
Session 7	Genetic control of the life cycle
	Chair: Yoshiki Nishimura (Kyoto University)
10:30 – 10:35	Introduction
10:35 – 10:50	30. Jae-Hyeok Lee (University of British Columbia)
	Complex regulatory networks controlling the homeobox-dependent
	zygote program during the sexual development of <i>Chlamydomonas</i>
	reinhardtii
10:50 – 11:05	31. Takashi Hamaji (Donald Danforth Plant Science Center)
	Identification and characterization of a <i>cis</i> -regulatory element for
	zygotic gene expression in <i>Chlamydomonas reinhardtii</i>
11:05 – 11:20	32. Takuya Matsuo (Nagoya University)
	Existence of a red/violet light signaling pathway involved in resetting
	of circadian clock in <i>Chlamydomonas</i>
11:20 – 11:35	33. Su-Chiung Fang (Academia Sinica)
	SUMO protease activity of SMT7 is required for MAT3-modulated cell
	size control in <i>Chlamydomonas</i>

11:35 – 11:50	34. Severin Sasso (Friedrich Schiller University) The function of a type I polyketide synthase in <i>Chlamydomonas</i> reinhardtii
11:50 - 13:30 13:30 - 14:30 14:30 - 15:30 15:30 - 15:50	Group photo and lunch Poster session (even number) Poster session (odd number) Coffee break
Session 8	Assembly of the flagellar axoneme
15:50 – 16:10	Chair: 35. Karl Lechtreck (University of Georgia) Introduction / Exploring the role of IFT and diffusion in flagella protein transport
16:10 – 16:25	36. Tomohiro Kubo (University of Yamanashi) The IFT81 and IFT74 N-termini together form the main module for intraflagellar transport of tubulin
16:25 – 16:40	37. Emily Hunter (Emory University) The <i>IDA3</i> gene encodes a protein specifically required for transport of the flagellar inner dynein arm I1/f dynein
16:40 – 16:55	38. Stephen King (University of Connecticut Health Center) The ciliary outer dynein arm assembly factor CCDC103 forms molecular scaffolds through distinct dimerization and oligomerization domains
16:55 – 17:10	39. Kazuo Inaba (University of Tsukuba) A novel subunit of axonemal dynein contains a photoreceptor protein domain
17:10 – 17:25	40. Susan Dutcher (Washington University) The roles of IFT and the transition zone in the assembly of the ciliary necklace
18:00 – 19:00	Dinner at the Hall Swan
<u>Special lectures</u> 19:00 – 19:40	41. Kevin Redding (Arizona State University) Rewiring photosynthesis: Fusion of photosystem I to hydrogenase
19:50 – 20:30	42. Arthur Grossman (Carnegie Institution for Science) Discovering novel photosynthetic functions in <i>Chlamydomonas</i> reinhardtii
20:30 – 22:30	Voting for best posters and Mixer with posters in the Room I-J-K

June 29 (Wednesday)

Session 9	Stress/Acclimation
9:00 – 9:10	Chair: Michael Hippler (University of Muenster) Introduction
9:10 – 9:25	43. Melis Duener (Ruhr University Bochum) The role of the soluble guanylate cyclase CYG12 in the acclimation of <i>Chlamydomonas</i> to anaerobiosis
9:25 – 9:40	44. Gilles Peltier (CEA Cadarache) The plastidial DEAD box RNA helicase CreRH22 is involved in ribosome biogenesis and is critical for high light acclimation
9:40 – 9:55	45. Michael Schroda (Technical University of Kaiserslautern) Not changes in membrane fluidity but proteotoxic stress induces the expression of the chloroplast small heat shock protein HSP22E/F in <i>Chlamydomonas reinhardtii</i>
9:55 – 10:10	46. Elena Ermilova (Saint-Petersburg State University) PII signalling proteins reinvented glutamine sensing during chloroplast evolution
10:10 – 10:25	47. Karen Lina Zinzius (University of Muenster) Calredoxin - a novel calcium-dependent sensor-responder connected to redox regulation
10:25 – 10:40	Coffee break
Session 10	Photosynthesis-2 (Excess light, dark reactions)
10:40 – 10:55	Chair: 48. Giovanni Finazzi (CEA Grenoble) Introduction / Chloroplast tomography allows revisiting diatoms photosynthesis
10:55 – 11:10	49. Lianyong Wang (Kyoto University) Thylakoid calcium-binding protein CAS and calcium regulate the expression of ABC-type plasma membrane bicarbonate transporter in <i>Chlamydomonas reinhardtii</i>
11:10 – 11:25	50. Dimitris Petroutsos (CEA Grenoble) A blue light photoreceptor mediates the feedback regulation of photosynthesis
11:25 – 11:40	51. Petra Redekop (Heinrich Heine University Duesseldorf) Role of the PsbS protein in <i>Chlamydomonas reinhardtii</i>

11:40 – 11:55	52. Martin Jonikas (Carnegie Institution for Science) A repeat protein links Rubisco to form the eukaryotic carbon concentrating organelle
11:55 – 12:10	53. Anna Barbara Matuszynska (Heinrich Heine University Duesseldorf) Mathematical model of short-term photoprotection in Chlamydomonas reinhardtii
12:10 – 13:30	Lunch
13:30 - 15:30	Poster viewing
15:30 -	Free time (Dinner is not included)

June 30 (Thursday)

Session 11	Biotechnology
	Chair: Gilles Peltier (CEA Cadarache)
9:00 – 9:10	Introduction
9:10 – 9:25	54. Fikret Mamedov (Uppsala University) Photosystem II and H ₂ production in <i>Chlamydomonas reinhardtii</i>
9:25 – 9:40	55. Hui li (Shenzhen University) Improved photobio-H ₂ production regulated by artificial miRNAs in green alga <i>Chlamydomonas reinhardtii</i>
9:40 – 9:55	56. Di Jin (University of Cambridge) Chlamydomonas in an air-lift photobioreactor under gyrotactic effects
9:55 – 10:10	57. Claude Aflalo (Ben Gurion University of the Negev) Data acquisition and control system for microalgal culture in a LED-illuminated flat-panel airlift bioreactor
10:10 – 10:25	58. Laura Stoffels (University College London) Recombinant protein production in <i>Chlamydomonas reinhardtii</i> at pilot scale
10:25 – 10:45	Coffee break

Session 12	Carbon metabolism and biofuels
10:45 – 11:05	Chair: 59. James Umen (Donald Danforth Plant Science Center) Introduction / Synergism between inositol polyphosphates and TOR kinase signaling in nutrient sensing, growth control and lipid metabolism in <i>Chlamydomonas</i>
11:05 – 11:20	60. Masataka Kajikawa (Kyoto University) TAG-accumulation-regulator-1 (TAR1) triggers suppression of photosynthesis and accumulation of lipid and starch under photoautotrophic and nitrogen-deficient conditions in <i>Chlamydomonas</i>
11:20 – 11:35	61. Miriam Schulz-Raffelt (Technical University of Kaiserslautern) Conditional downregulation of cpSECA leads to oil accumulation in <i>Chlamydomonas reinhardtii</i>
11:35 – 11:50	62. Kourosh Salehi-Ashtiani (New York University Abu Dhabi) Iterative cycles of mutagenesis and selection generates a lipid accumulating <i>C. reinhardtii</i> mutant without compromising growth kinetics
11:50 – 12:05	63. Julie Zedler (University of Kent) Chlamydomonas reinhardtii as a platform for sustainable diterpene production
12:05 – 13:00	Lunch
Session 13	Evolution and diversity
13:00 – 13:15	Chair: 64. Hisayoshi Nozaki (University of Tokyo) Introduction / Establishing new strains of <i>Volvox</i> for future studies of biodiversity and evolution
13:15 – 13:30	65. Shota Yamashita (University of Tokyo) Developmental analysis of the spheroidal colony formation in <i>Astrephomene</i> (Volvocales, Chlorophyta)
13:30 – 13:45	66. Takako Kato-Minoura (Chuo University) Phylogenetic analysis of NAP, an unconventional actin of the Volvocales
13:45 – 14:00	67. David Nelson (New York University Abu Dhabi) The genome, transcriptome, and phenome of <i>Palmellococcus</i> saccharophilus reveal adaptive traits of an alga with widespread domain in a desert region
14:00 – 14:20	Coffee break

Session 14	New directions in <i>Chlamydomonas</i> biology
14:20 – 14:30	Chair: Maria Mittag (Friedrich Schiller University Jena) Introduction
14:30 – 14:45	68. Josep Vilarrasa-Blasi (Carnegie Institution for Science) Identification and characterization of water sensing mechanisms in plants
14:45 – 15:00	69. Naoki Sato (University of Tokyo) Ordered motion from chaos: Inverted bioconvection in Chlamydomonas reinhardtii
15:00 – 15:15	70. Daniel Schaeme (Friedrich Schiller University) Interactions between <i>Chlamydomonas reinhardtii</i> and other microorganisms
15:15 – 15:30	71. Tomohito Yamasaki (National institute for basic biology) The RNA binding protein DUS16 plays an essential role in primary miRNA processing in <i>Chlamydomonas reinhardtii</i>
15:30 – 15:45	72. Benjamin Engel (Max Planck Institute of Biochemistry) Exploring the molecular landscape of <i>Chlamydomonas</i> with in situ cryo-electron tomography
15:45 - 16:15 16:15 - 17:00 17:00 - 17:30 18:00 - 21:00	Poster awards and announcements Poster viewing Poster removal Banquet at the Hall Sakura

July 1 (Friday)

Morning Departure