

PROGRAM

MONDAY, April 24—7:00 PM

Welcome Remarks

Gert Jansen

Erasmus MC, Rotterdam, the Netherlands

KEYNOTE SPEAKER

Mechanisms of centrosome homeostasis

Tim Stearns, Roberta Sala, Miranda Stratton, Jennifer T. Wang
[35'+10']

Presenter affiliation: Stanford University, Stanford, California.

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MONDAY, April 24—7:45 PM

SESSION 1 CENTRIOLES AND CENTROSOMES

Chairperson: **Monica Bettencourt Dias**, Instituto Gulbenkian de
Ciência, Oeiras, Portugal

Towards cell-free reconstitution of cartwheel assembly

Pierre Gönczy, Paul Guichard, Virginie Hamel, Niccolò Banterle,
Maeva Le Guennec, Adrian Nievergelt, Georg Fantner, Isabelle
Flückiger, Veronika Nemčíková [25'+5']

Presenter affiliation: Swiss Federal Institute of Technology Lausanne
(EPFL), Lausanne, Switzerland.

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***Drosophila* Plk4 organises a centriole origin of replication (CORE) whose activity sets daughter centriole length**

Mustafa Aydogan, Alan Wainman, Saroj Saurya, Thomas Steinacker,
Jordan W. Raff [25'+5']

Presenter affiliation: University of Oxford, Oxford, United Kingdom.

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C. elegans SAS-7 is required for the recruitment of γ -tubulin to the outer surface of centrioles at the late step of centriole assembly

Nami Haruta, Chihiro Yoshii, Shinsuke Uchiya, Eisuke Sumiyoshi, Masahiro Terasawa, Asako Sugimoto [15'+5']
Presenter affiliation: Tohoku University, Sendai, Japan.

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Cep85 is a STIL-interacting protein that modulates centriole duplication

Yi Liu, Christopher M. Johnson, Gagan D. Gupta, Stephen H. McLaughlin, Johnny M. Tkach, Antonina Andreeva, Deepak D. Barnabas, Stefan M. Freund, Laurence Pelletier, Mark V. Breugel [15'+5']

Presenter affiliation: Mount Sinai Hospital, Toronto, Canada; University of Toronto, Toronto, Canada.

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TUESDAY, April 25—9:00 AM

SESSION 2 CILIA GROWTH AND MAINTENANCE I

Chairperson: **Antonina Roll-Mecak**, National Institute of Neurological Disorders and Stroke, NIH, Bethesda, Maryland, USA

The centrosome-cilium complex

Gregory Mazo, Bryan Tsou [25'+5']

Presenter affiliation: Memorial Sloan Kettering Cancer Center, New York, New York.

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Superresolved molecular architecture at the base of primary cilia

T Tony Yang, Weng Man Chong, Won-Jing Wang, Meng-Fu Bryan Tsou, Jung-Chi Liao [25'+5']

Presenter affiliation: Academia Sinica, Taipei, Taiwan.

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Mass production of basal bodies for multiciliogenesis

Huijie Zhao, Qingxia Chen, Yaping Li, Xiumin Yan, Xueliang Zhu [25'+5']

Presenter affiliation: Chinese Academy of Sciences, Shanghai, China; ShanghaiTech University, Shanghai, China.

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Coffee / Tea Break

Mechanisms of centriolar remodeling and basal body positioning in *C. elegans* ciliogenesis

Inna V. Nechipurenko, Cristina Berciu, Daniela Nicastro, Piali Sengupta [25'+5']

Presenter affiliation: Brandeis University, Waltham, Massachusetts. 9

Three Greek gods and cilia

Sudipto Roy [25'+5']

Presenter affiliation: Institute of Molecular and Cell Biology, Singapore. 10

TUESDAY, APRIL 25—11:40 AM

Workshop: FEI EM and Bio-Protocols

TUESDAY, April 25—2:00 PM

SESSION 3 POSTER SESSION I

Dynamic tracking of centriole elongation reveals key aspects of how centrioles grow in *Drosophila* embryos

Mustafa G. Aydogan, Alan Wainman, Saroj Saurya, Thomas L. Steinacker, Zsofia A. Novak, Janina Baumbach, Nadine Muschalik, Jordan W. Raff

Presenter affiliation: University of Oxford, Oxford, United Kingdom. 11

Mutations in PIH1D3 cause X-linked primary ciliary dyskinesia with outer and inner dynein arm defects

Zeineb Bakey, Tamara Paff, Niki T. Loges, Kaman Wu, Isabella Aprea, Eric G. Haarman, Erik A. Sistermans, Natalija Bogunovic, Gerard W. Dougherty, Inga Höben, Jörg Große -Onnebrink, Anja Matter, Heike Olbrich, Claudius Werner, Gerard Pals, Heymut Omran, Dimitra Micha, Miriam Schmidts

Presenter affiliation: Radboud University Medical Center, Nijmegen, Netherlands. 12

The roles of type 3 adenylyl cyclase in neuronal cilia

Matt Strobel, Daniel Storm, Liyan Qiu, Yuxin Zhou, Ashley Sterpka, Xuanmao Chen

Presenter affiliation: University of New Hampshire, Durham, New Hampshire. 13

- Exploration of axonemal dynein assembly pathways through primary ciliary dyskinesia model mice and endogenous protein tagging**
Daniel O. Dodd, Girish Mali, Petra zur Lage, Margaret Keighren, Alex von Kreigsheim, Andrew Jarman, Pleasantine Mill
 Presenter affiliation: Institute of Genetics and Molecular Medicine at The University of Edinburgh, Edinburgh, United Kingdom. 14
- Intraflagellar transport (IFT) protein IFT52 recruits IFT46 to the basal body and flagella**
 Bo Lv, Lei Wan, Michael Taschner, Xi Cheng, Lorentzen Esben, Kaiyao Huang
 Presenter affiliation: Key Laboratory of Algal Biology, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. 15
- Dissection of the tubulin incorporation in *C. elegans* sensory cilia**
Zeran Jia, Jiayu Sun, Guangshuo Ou
 Presenter affiliation: Tsinghua University, Beijing, China. 16
- ESCRT machinery is involved in ciliogenesis by regulating ciliary vesicle trafficking**
Eunji Jung, Joon Kim
 Presenter affiliation: Korea Advanced Institute of Science and Technology, Daejeon, South Korea. 17
- The role of ADSSL1-mediated primary cilia in skeletal muscle development**
Soo Mi Ki, Ji Eun Lee
 Presenter affiliation: Sungkyunkwan University, Seoul, South Korea. 18
- Role of *IFT46* gene in the kidney**
 Je Yeong Ko, Bo Hye Kim, Do Yeon Kim, Hwa Yeon Cha, Jong Hoon Park
 Presenter affiliation: Sookmyung Women's University, Seoul, South Korea. 19
- IFT46 plays crucial roles in neural and cilia development**
Chowon Kim, Nayoung Lee, Youni Kim, Hongchan Lee, Hyun-Shik Lee
 Presenter affiliation: School of Life Sciences, Kyungpook National University, Daegu, South Korea. 20

Function-driven discovery of disease genes in zebrafish using DanioNet	
<u>Ji Hyun Kim</u> , Hongseok Shim, Chan Yeoung Kim, Insuk Lee, Ji Eun Lee	
Presenter affiliation: Sungkyunkwan University, Seoul, South Korea.	21
Molecular mechanism of loss of primary cilia in pancreatic ductal adenocarcinoma	
<u>Tetsuo Kobayashi</u> , Yu Mashima, Ayano Shoda, Brian D. Dynlacht, Hiroshi Itoh	
Presenter affiliation: Nara Institute of Science and Technology, Ikoma, Japan.	22
Peroxiredoxin1, a novel regulator of pronephros development, influences retinoic acid and Wnt signaling by controlling ROS levels	
<u>Hyun-Kyung Lee</u> , Kyeongyeon Park, Youngeun Jeong, Hyun-Shik Lee	
Presenter affiliation: Kyungpook National University, Daegu, South Korea.	23
Unravelling the assembly process of centriole organelles	
<u>QiuHong Li</u> , Ioannis Vakonakis	
Presenter affiliation: University of Oxford, Oxford, United Kingdom.	24
Centriole translocation and degeneration during ciliogenesis in <i>C. elegans</i> neurons	
<u>Wenjing Li</u>	
Presenter affiliation: Tsinghua University, Beijing, China.	25
Regulation of mammalian neural patterning by the inositol phosphatase Inpp5e	
<u>Chao Lin</u> , Tamara Caspary	
Presenter affiliation: Emory University, Atlanta, Georgia.	26
Functional analysis of Zika envelope protein in <i>C. elegans</i> ciliated neurons	
<u>Qirong Lin</u> , Guangshuo Ou	
Presenter affiliation: Tsinghua University, Beijing, China.	27
Building a multipurpose insertional mutant library for forward and reverse genetics in <i>Chlamydomonas</i>	
Xi Cheng, <u>Gai Liu</u> , Wenting Ke, Lijuan Zhao, Bo Lv, Xiaocui Ma, Nannan Xu, Xiaoling Xia, Xuan Deng, Chunlei Zheng, Kaiyao Huang	
Presenter affiliation: Key Laboratory of Algal Biology, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China.	28

Examination of the Tubulin code hypothesis in <i>C. elegans</i> neuronal cilia	
<u>Liyang Liu</u> , Guangshuo Ou	
Presenter affiliation: Peking University, Beijing, China.	29
Autophagy-mediated neuronal ciliogenesis is essential for human cortical lamination	
<u>Sang Min Park</u> , Jae Seok Lim, Suresh Ramakrishna, Se Hoon Kim, Woo Kyeong Kim, Junehawk Lee, Hoon-Chul Kang, Jeremy F. Reiter, Dong Seok Kim, Hyongbum Kim, Jeong Ho Lee	
Presenter affiliation: KAIST, Daejeon, South Korea.	30
Roles of Ana1 in <i>Drosophila</i> spermatogenesis	
<u>Hélène Rangone</u> , Jingyan Fu, Marco Gottardo, Giuliano Callaini, David M. Glover	
Presenter affiliation: University of Cambridge, Cambridge, United Kingdom.	31
Interlinking cell division and ciliogenesis	
<u>Trinadh Venkata Satish Tammana</u> , Damayanti Tammana	
Presenter affiliation: Institute of Bioinformatics and Applied Biotechnology, Bengaluru, India.	32
Cryo-electron tomography of centriole and rootlet assembly in <i>Naegleria gruberi</i>	
<u>Hugo G. van den Hoek</u> , Sahrada Albert, Stefan Geimer, Jürgen M. Plitzko, Wolfgang Baumeister, Benjamin D. Engel	
Presenter affiliation: Max Planck Institute of Biochemistry, Martinsried, Germany.	33
Role of the cytoplasmic dynein-2 intermediate chain WDR60	
<u>Laura Vuolo</u> , Nicola L. Stevenson, David J. Stephens	
Presenter affiliation: University of Bristol, Bristol, United Kingdom.	34
Tethering of an E3 ligase by PCM1 regulates the abundance of centrosomal KIAA0586/Talpid3 and promotes ciliogenesis	
<u>Lei Wang</u> , Kwanwoo Lee, Ryan Malonis, Irma Sanchez, Brian D. Dynlacht	
Presenter affiliation: New York University School of Medicine, New York, New York.	35

- The transition fiber protein FBF1 is required to assemble both sensory cilia and sperm flagellar in *Drosophila***
 Zimao Wu, Yanan Hou, Qing Wei
 Presenter affiliation: Shanghai Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, Shanghai, China. 36
- A calmodulin gene plays an essential role in acid-induced deflagellation in *Chlamydomonas reinhardtii***
Qiong Wu, Yinwen Liang, Junmin Pan
 Presenter affiliation: MOE Key Laboratory of Protein Sciences, School of Life Sciences, Tsinghua University, Beijing, China. 37
- The glial actin cytoskeleton regulates neuronal ciliogenesis in *C. elegans***
 Hao Zhu, Yan Zhang, Guangshuo Ou
 Presenter affiliation: Tsinghua University, Beijing, China. 38
- The cytoplasmic tail of rhodopsin triggers rapid rod degeneration in kinesin-2 mutants**
 Dong Feng, Zhe Chen, Kuang Yang, Shanshan Miao, Bolin Xu, Yunsi Kang, Haibo Xie, Chengtian Zhao
 Presenter affiliation: Ocean University of China, Qingdao, China; Qingdao National Laboratory for Marine Science and Technology, Qingdao, China. 39
- IFT54 regulates IFT20 stability but is not essential for tubulin transport during ciliogenesis**
Xin Zhu, Yinwen Liang, Junmin Pan
 Presenter affiliation: MOE Key Laboratory of Protein Sciences, School of Life Sciences, Tsinghua University, Beijing, China. 40

TUESDAY, April 25—4:30 PM

Chinese Tea and Beer Tasting

TUESDAY, April 25—7:00 PM

KEYNOTE SPEAKER

The tubulin code regulates ciliary microtubule ultrastructure, intraflagellar transport, and extracellular vesicle biology

Maureen Barr, Malan Silva, Natalia Morsci, Christopher Rongo, David Hall, Robert O'Hagan [35'+10']

Presenter affiliation: Rutgers University, Piscataway, New Jersey. 41

TUESDAY, April 25—7:45 PM

SESSION 4 CILIA FUNCTION

Chairperson: **Guangshuo Ou**, Tsinghua University, Beijing, China

The transition zone as a leaky membrane diffusion barrier

Jensen L. Jensen, Chunmei Li, Kwangjin Park, Michel R. Leroux [25'+5']

Presenter affiliation: Simon Fraser University, Vancouver, Canada. 42

Centrosomal anchorage regulates mechanical features of progenitors and cortical size

Wei Shao, Zhizhong Li, Song-Hai Shi [25'+5']

Presenter affiliation: Memorial Sloan Kettering Cancer Center, New York, New York; Weill Cornell Medical College, New York, New York. 43

Role of motile and immotile cilia in left-right symmetry breaking

Hiroshi Hamada, Takahiro Ide, Katsura Minegishi, Katsutoshi Mizuno, Wang K. Twan [25'+5']

Presenter affiliation: RIKEN, Kobe, Japan. 44

Polycystin ion channels in primary cilia

Paul G. DeCaen, Xiaowen Liu, David E. Clapham [15'+5']

Presenter affiliation: Northwestern University, Chicago, Illinois. 45

SESSION 5 **CENTRIOLE AND CENTROSOME BIOGENESIS**

Chairperson: **Bryan Tsou**, Memorial Sloan-Kettering Cancer Center,
New York, New York, USA

New partnerships of core centriole duplication proteins

David M. Glover [25'+5']

Presenter affiliation: University of Cambridge, Cambridge, United Kingdom. 46

The role of the basal body in cilia formation and length control

Bahtiyar Kurtulmus, Bohan Uddin, Elmar Schiebel, Gislene Pereira
[25'+5']

Presenter affiliation: University of Heidelberg, Heidelberg, Germany. 47

Novel function of *Drosophila* Ana1 in centriole integrity

Jingyan Fu, H el ene Rangone, Marco Gottardo, Giuliano Callaini, David
Glover [15'+5']

Presenter affiliation: China Agricultural University, Beijing, China. 48

Coffee / Tea Break

Spindle pole focusing by the microcephaly protein ASPM

Ami Ito, Gohta Goshima [15'+5']

Presenter affiliation: Nagoya University, Nagoya, Japan. 49

Rootletin prevents Cep68 from VHL-mediated proteasomal degradation to maintain centrosome cohesion

Huilong Yin, Lu Zheng, Wei Li, Li Yuan [15'+5']

Presenter affiliation: University of Chinese Academy of Sciences, Beijing, China. 50

Structure and function of centrosomal linkers

Robert Mahen, Paul French, Ashok R. Venkitaraman [15'+5']

Presenter affiliation: Imperial College London, London, United Kingdom; University of Cambridge, Cambridge, United Kingdom. 51

Regulation of centrosome maturation by localized RNA

Mark Antkowiak, Guadalupe Sepulveda, Ingrid Brust-Mascher, Bo
Huang, Li-En Jao [15'+5']

Presenter affiliation: University of California, Davis, Davis, California. 52

WEDNESDAY, April 26—1:30 PM

Visit to Old Suzhou

WEDNESDAY, April 26—7:00 PM

SESSION 6 CILIA GROWTH AND MAINTENANCE II

Chairperson: **Susana Godinho**, Barts Cancer Institute, London, United Kingdom

Differential regulation of core ciliary base components underlies cilia diversity

Swadhin C. Jana, Susana Mendonça, Pedro Machado, Sasha Werner, Monica Bettencourt-Dias [25'+5']

Presenter affiliation: Instituto Gulbenkian de Ciencia, Oeiras, Portugal. 53

Ciliary PI(4,5)P₂ dictates fall of primary cilia and rise of cell cycle

Takanari Inoue [25'+5']

Presenter affiliation: Johns Hopkins University, Baltimore, Maryland. 54

Functional exploration of the IFT-A complex in intraflagellar transport and ciliogenesis

Bing Zhu, Xin Zhu, Limei Wang, Yinwen Liang, Qianqian Feng, Junmin Pan [25'+5']

Presenter affiliation: Tsinghua University, Beijing, China; Qingdao National Laboratory for Marine Science and Technology, Qingdao, China. 55

WEDNESDAY, April 26—8:30 PM

SESSION 7 POSTER SESSION II

See Poster Session I for List of Posters

SESSION 8 CILIA AND CENTROSOME DISEASES

Chairperson: **Takanari Inoue**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

A central role for cilia in the complex genetics of congenital heart disease

Xiaoqin Liu, Nikolai Klena, George Gabriel, Molly Schwartz, Czarnecki Peter, Ying Shan, Michael Wang, Daniel Weeks, Jagesh Shah, [Cecilia W. Lo](#) [25'+5']

Presenter affiliation: University of Pittsburgh, Pittsburgh, Pennsylvania. 56

The complex genetics and pathogenesis of renal ciliopathies

[Sophie Saunier](#) [25'+5']

Presenter affiliation: INSERM UMR 1163, Paris, France. 57

Non-cell autonomous invasion mediated by centrosome amplification

Teresa Arnandis, [Susana A. Godinho](#) [25'+5']

Presenter affiliation: Barts Cancer Institute - Queen Mary University of London, London, United Kingdom. 58

Coffee / Tea Break

Linking monogenic and complex obesity to primary cilia—The Cep19 obesity protein regulates a conserved GTPase cycle coupling cargo to the IFT-B complex for ciliary transport of the BBSome and GPCRs

Tomoharu Kanie, Keene L. Abbott, [Peter K. Jackson](#) [15'+5']

Presenter affiliation: Stanford University School of Medicine, Stanford, California. 59

Primary cilia on colonic fibroblasts regulate DSS-induced colitis and inflammation associated colon carcinogenesis

[Ruizhi Tang](#), Conception Paul, Sophie Poupeau, Jan Paul Medema, Carsten Janke, Michael Hahne [15'+5']

Presenter affiliation: L'institut de Génétique Moléculaire de Montpellier (CNRS-UMR5535), Montpellier, France; Université de Montpellier, Montpellier, France. 60

Compound library screening and drug development for ciliopathies

Joon Kim, Yong Joon Kim [15'+5']

Presenter affiliation: KAIST, Daejeon, South Korea.

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The Joubertome—An integrated framework of Joubert syndrome-associated proteins

Ronald Roepman, Ideke Lamers, Susanne Roosing, Minh Nguyen, Sylvia van Beersum, Jeroen van Reeuwijk, Stef Letteboer, Karsten Boldt, Marius Ueffing, Joseph Gleeson [15'+5']

Presenter affiliation: Radboud University Medical Center, Nijmegen, Netherlands.

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ANKS3 mutation in nephronophthisis patients leads to cilia and cytoskeleton defects in vitro and in vivo in zebrafish

Gweltas Ody, Marion Delous, Valentina Grampa, Line De Grande, Chiara Guerrera, Emilie Filhol, Pauline Krug, Nicolas Goudin, Flora Silbermann, Bertrand Knebelmann, Andreas W Sailer, Pierre Saint-Mezard, Alexandre Benmerah, Sophie Saunier [15'+5']

Presenter affiliation: INSERM U1163 Imagine Institute, Paris, France.

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THURSDAY, April 27—2:00 PM

SESSION 9 CILIA GROWTH AND FUNCTION

Chairperson: Jung-Cui Liao, Academia Sinica, Taipei, Taiwan

Regulation of cilium length by modulation of the IFT machinery and Golgi and endocytosis mediated protein or lipid homeostasis

Gert Jansen [25'+5']

Presenter affiliation: Erasmus MC, Rotterdam, Netherlands.

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How cellular effectors read the tubulin code

Antonina Roll-Mecak [25'+5']

Presenter affiliation: National Institutes of Health, Bethesda, Maryland.

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Spatial organization and dynamics of ciliary gating zone components

Kristen J. Verhey [25'+5']

Presenter affiliation: University of Michigan Medical School, Ann Arbor, Michigan.

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Coffee / Tea Break

Mechanisms underlining body curvature in zebrafish ciliary mutants

Xiaoli Zhang, Shuo Jia, Zhe Chen, Dong Feng, Chengtian Zhao [15'+5']

Presenter affiliation: Ocean University of China, Qingdao, China; Qingdao National Laboratory for Marine Science and Technology, Qingdao, China.

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Determining the interacting network of TALPID3 through proteomic studies

Amy M. Fraser, Lynn McTeir, Michael J. McGrew, Megan G. Davey [15'+5']

Presenter affiliation: The Roslin Institute, Edinburgh, United Kingdom.

68

Using the developing choroid plexus paradigm to explore cilia transcriptomics

Megan G. Davey, Anirudh Patir, Sandra Poyatos, Lynn McTeir, Amy M. Fraser, Tom Freeman [15'+5']

Presenter affiliation: The Roslin Institute, University of Edinburgh, Edinburgh, United Kingdom.

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Structure destabilising mutations in the same protein domain cause different ciliopathies

Nimesh Joseph, Christopher M. Johnson, Antonina Andreeva, Stefan M. Freund, Fanni Gergely, Mark van Breugel [15'+5']

Presenter affiliation: MRC-Laboratory of Molecular Biology, Cambridge, United Kingdom.

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The centrosome and cilium protein CCDC66 functions in ciliogenesis and ciliary trafficking and is regulated by centriolar satellites

Deniz Conkar, Efraim Culfa, Ezgi Odabasi, Navin Rauniyar, John R. Yates [15'+5']

Presenter affiliation: Koc University, Istanbul, Turkey.

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THURSDAY, APRIL 27—6:00 PM

COCKTAILS and BANQUET

SESSION 10 CILIA, CENTROSOME AND BEYOND

Chairperson: **Gislene Pereira**, German Cancer Research Center, Heidelberg, Germany

Assembling the ciliary necklace in *Chlamydomonas*

Susan K. Dutcher, Huawen Lin, Ursula W. Goodenough, Robyn Roth [25'+5']

Presenter affiliation: Washington University, St Louis, Missouri. 72

Ciliary protein trafficking in *Drosophila*

Nayoung Lee, Jina Park, Yong Chul Bae, Chul Hoon Kim, Seok Jun Moon [25'+5']

Presenter affiliation: Yonsei University College of Dentistry, Seoul, South Korea. 73

Dynein-driven neuronal transport in the formation of *C. elegans* sensory cilia

Guangshuo Ou [25'+5']

Presenter affiliation: Tsinghua University, Beijing, China. 74

Coffee / Tea Break

Ectosome release functions in flagellar membrane remodeling and cell-cell communication

Huan Long, Fan Zhang, Nannan Xu, Dennis Diener, Joel Rosenbaum, Kaiyao Huang [15'+5']

Presenter affiliation: Key Laboratory of Algal Biology, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. 75

A novel link between ploidy level and centrosome homeostasis in mammalian somatic cells

Kan Yaguchi, Ryo Matsui, Yuki Tsukada, Toshiaki Koda, Ryota Uehara [15'+5']

Presenter affiliation: Hokkaido University, Sapporo, Japan. 76

The role of centrosome in cell motility and metastasis

Yi Luo, Miriam Barrios-Rodiles, Liang Zhang, Amy Zhang, Jeff Wrana, Laurence Pelletier [15'+5']

Presenter affiliation: Lunenfeld-Tanenbaum Research Institute, Toronto, Canada. 77

Centriole amplification by mother and daughter centrioles differs in mammalian multiciliated cells

Adel Al Jord, Anne Iris Lemaitre, Nathalie Delgehyr, Marion Faucourt, Nathalie Spassky, Alice Meunier [15'+5']

Presenter affiliation: Ecole Normale Supérieure, Paris, France; CNRS, Paris, France; INSERM, Paris, France.

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