

Monday, April 18.

- 9:30 Registration + Coffee
- 10:30 Welcome and Opening Remarks – Ronald Roepman
Expected impact of SYSCILIA on systems biology – Christina Kyriakopoulou (*EU scientific officer*)
- 11:00 **Component 1** (chair: Rob Russell)
- **WP 1 - Mapping the ciliome**
Introduction - Marius Ueffing (*UTUB*)
Speakers: Jeroen van Reeuwijk (*RUNMC*):
 - Ciliary Proteome Mapping; Target selection, Data generation & First data.Karsten Boldt (*UTUB*):
 - Protein complex and sub-proteome analysis by quantitative mass spectrometry.Uwe Wolfrum (*JoGuMz*):
 - Decipherment of the protein network based on the Usher syndrome scaffold protein SANS.
 - **WP 2 - Central resource for data integration**
Introduction - Rob Russell (*UHEI*)
Speakers: Matthew Betts (*UHEI*):
 - Syscilia database update.Gordana Apic (*CCNet*):
 - Annotation in Syscilia: some current results and future efforts.
- 13:00 Cold buffet
- 14:00 **Component 2** (chair: Toby Gibson)
- **WP 3 - Construction, comparison and application of ciliary interactomes**
Introduction - Toby Gibson(*EMBL*)
Speakers: Grischa Tödt (*EMBL*):
 - Next stop cilium: targeting ciliary proteins.John van Dam (*RUNMC*):
 - Orthology and modularity.
 - **WP 4 - Integrative modelling and predictions of ciliary system behaviour.**
Introduction - Francois Képès (*CNRS*)
Speakers: Konstantinos Koutroumpas (*CNRS*):
 - Modeling Gene Regulatory Networks.
- 16:00 Coffee
- 16:30 **Training Session – Bioinformatics**
- Interaction resources within and outwith SYSCILIA
- Speaker: Rob Russell (*UHEI*) **What is an interaction?**
- Hands on training: Toby Gibson (*EMBL*), Gordana Apic (*CCNet*), Rob Russell (*UHEI*)
- Part 1 – **STRING & STITCH**
Two useful interaction resources freely accessible on-line.
- Part 2 – **SysWiz**
The curated in-project interaction resource.
- 18:30
- 19:30 Project Dinner

Tuesday, April 19.**09:30 Component 3****• WP 5 - Assay systems to study functional ciliary modules**Introduction - Gerd Walz (*UKL FR*)Speaker: Gerd Walz (*UKL FR*):

- Molecular functions of NPHP gene products

10:30 Coffee**11:00 • WP 6 - Assays to distort Ciliopathy-Associated Modules (CAMs)**Introduction – Oliver Blacque (*NIUD UCD*)Speakers: Daniela Iaconis (*FTELE.IGM*):

- Insights from *Odf1* conditional mutants: implications for ciliary associated disorders.

Colin Johnson (*LIMM*):

- Functional characterization of the *Tmem67* knock-out mouse as a model of severe human ciliopathies.

• WP 7 - Systematic RNAi screens to distort and identify ciliopathy-associated modulesIntroduction - Colin Johnson (*LIMM*)Speakers: Kasia Szymanska (*LIMM*):

- Development and validation of a high content high throughput visual reverse genetics screen for ciliogenesis.

Gabrielle Wheway (*LIMM*):

- The role of MKS1 at the proteasome: linking cilia to protein processing and Wnt signalling.

13:00 Cold buffet**14:00 Component 4** (chair: Rachel Giles)**• WP 8 - Assessment of the involvement of the predicted ciliary molecular machines in the pathogenesis of ciliopathies**Introduction – Nico Katsanis (*Duke*)Speaker: Nico Katsanis (*Duke*):

- The mutational load of the IFT particles in ciliopathies.

• WP 9 - Translational systems biology: ciliotherapeutics.Introduction – Rachel Giles (*UMCU*)Speakers: Phil Beales (*UCD*):

- Therapeutic options in ciliopathies.

Dan Osborne(*UCD*):

- Validation of lead compounds following a library screen for cystic renal disease.

16:00 Coffee**16:30 Training Session / Workshop / Discussions – Transport**Oliver Blacque (*NIUD UCD*)Uwe Wolfrum (*JoGuMZ*)Nico Katsanis (*Duke*)Gerd Walz (*UKL FR*)**IFT in *C. elegans* sensory cilia****IFT proteins and IFT motors in the sub-compartments of photoreceptor cilia****18:30 Exploitation Committee meeting** (members: Gordana Apic, Ronald Roepman, Marius Ueffing, Heymut Omran)**19:00 Steering Committee meeting**

Wednesday, April 20.

- 09:00 **General Assembly meeting; project management and preparation of annual report**
- 09:30 **Cross component discussions (parallel).**
Suggested subjects:
Bioinformatic approaches to analyze next gen sequencing data – Colin Johnson
Key proteins / questions to feed bioinformatics – Heymut Omran
Best candidates for mono-therapy approach using zebrafish – Phil Beales
Exchange of knowledge – Gordana Apic
Animal model systems – Gerd Walz
Zebrafish localization studies – Hannie Kremer
- 11:00 Coffee
- 11:30 Final discussions and per component action point list for the next reporting period (months 13-24).
Component 1; 11:30 - 11:45
Component 2; 11:45 - 12:00
Component 3; 12:00 - 12:15
Component 4; 12:15 - 12:30
- 12:30 **Closure** – Ronald Roepman
Farewell lunch.

Registered participants

Marius Ueffing	UTUB	Co-coordinator, Leader WP-1	M
Karsten Boldt	UTUB	Postdoc	M
Yves Texier	UTUB	PhD student	M
Andreas Vogt	UTUB	Postdoc	M
Rob Russell	UHEI	Leader Component 1, Leader WP2	M
Matthew Betts	UHEI	Postdoc, database and website manager	M
Chad Davis	UHEI	Postdoc	M
Toby Gibson	EMBL	Leader Component 2, Leader WP3	M
Grischa Tödt	EMBL	Postdoc	M
Nico Katsanis	Duke	Leader WP8	M
Gerd Walz	UKL FR	Leader WP5	M
Oliver Blacque	UCD	Leader WP6	M
Gordana Apic	CCNet	Chair Exploitation Committee, Leader WP10	F
Dragana Mitic Potkrajc	CCNet	Senior scientist	F
Francois Képès	CNRS	Leader WP4	M
Konstantinos Koutroumpas	CNRS	Postdoc	M
Colin Johnson	LIMM	Leader WP7	M
Gabrielle Wheway	LIMM	Postdoc	F
Katarzyna Szymanska	LIMM	research assistant	F
Rachel Giles	UMCU	Leader Component 4, Leader WP9	F
Gisela Slaats	UMCU	PhD student	F
Phil Beales	UCL	Principal Investigator	M
Dan Osborn	UCL	Postdoc	M
Marco Pontoglio	INSERM	Principal Investigator	M
Evelyne Fischer	INSERM	Senior scientist	F
Michel Leibovici	INSERM	Senior scientist	M
Ronald Roepman	RUNMC	Coordinator, Leader WP11	M
Simone Dusseljee	RUNMC	Project Manager	F
Dorus Mans	RUNMC	Postdoc	M
Jeroen van Reeuwijk	RUNMC	Postdoc	M
Hannie Kremer	RUNMC	Principal Investigator	F
Erwin van Wijk	RUNMC	Postdoc	M
Martijn Huynen	RUNMC	Principal Investigator	M
John van Dam	RUNMC	Postdoc	M
Manuela Morleo	FTELE.IGM	Postdoc	F
Daniela Iaconis	FTELE.IGM	PhD student	F
Heymut Omran	WWU	Principal Investigator	M
Uwe Wolfrum	JoGuMZ	Principal Investigator	M
Michiel van Wijk	JoGuMZ	Postdoc	M
Nasrin Sorousch	JoGuMZ	PhD student	F
Christina Kyriakopoulou	EU	Project Officer	F
Gerard Dougherty	WWU	Postdoc	M