

# EUROPEAN INTERMEDIATE FILAMENT MEETING

24 - 27 SEPTEMBER 2025 / LYON - FRANCE

## KEYNOTE SPEAKER

Roy Quinlan - *England*

## SPEAKERS

Giulio Agnetti - *Italy*  
Anna Akhmanova - *The Netherlands*  
Pierre Coulombe - *USA*  
John Eriksson - *Finland*  
Daniel Garcia-Gonzalez - *Spain*  
Elly Hol - *The Netherlands*  
Pierre Joanne - *France*  
Sarah Köster - *Germany*  
Cécile Leduc - *France*  
Rudolf Leube - *Germany*  
Jean-Baptiste Manneville - *France*  
Ohad Medalia - *Switzerland*  
Milos Pekny - *Sweden*  
Dolores Pérez Sala - *Spain*  
Stéphanie Portet - *Canada*  
Nicole Schwarz - *Germany*  
Diana Toivola - *Finland*

## SCIENTIFIC COMMITTEE

Pascale Bomont, *Chair - Neuromyogene Institute, Lyon*  
Onnik Agbulut - *Sorbonne University, Paris*  
Anne Bertrand - *Myology Institute, Paris*  
Gisèle Bonne - *Myology Institute, Paris*  
Sandrine Etienne-Manneville - *Pasteur Institute, Paris*

SCIENTIFIC PROGRAM

## WEDNESDAY, SEPTEMBER 24<sup>TH</sup>

14:00 - 15:00 Participant welcoming & registration

15:00 - 15:10 Opening Euro-IF 2025

*Chair : Pascale Bomont*

15:10 - 16:00 Opening Keynote lecture (*introduced by Pierre Coulombe*):

Our Intermediate Filament World and beyond...

*Roy Quinlan - University of Durham, England*

16:00 - 17:30

Plenary Session 1: Structure & Biophysics of IFs

*Chair: Pascale Bomont*

16:00 - 16:30 The molecular basis of lamin specific chromatin interactions

*Ohad Medalia - University of Zurich, Switzerland*

16:30 - 16:45 Unraveling the Essential Role of a Highly Conserved Motif in Desmin's  
Coil 2 Domain for Intermediate Filament Assembly.

*Jonas Reckmann - Biophysics University of Bielefeld, Germany*

16:45 - 17:00 Impact of Vimentin Intermediate Filaments on 3D Collective Behavior

*Camille Rodriguez - Massachusetts Institute of Technology, USA*

17:00 - 17:30 High strains in biology: from single filaments to networks and cells

*Sarah Köster - Göttingen University, Germany*

17:30 - 18:00 Coffee break

## WEDNESDAY, SEPTEMBER 24<sup>TH</sup>

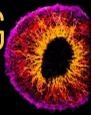
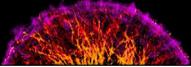
18:00 - 19:30

### Plenary Session 2: Mechanobiology of IFs

*Chair: Anne Bertrand*

- 18:00 - 18:30      Probing the mechanics of nuclear and cytoplasmic intermediate filaments in living cells with optical tweezers  
*Jean-Baptiste Manneville - Université de Paris Cité, France*
- 18:30 - 18:45      An adaptive response to nuclear envelope stress controls the invasive potential of glioblastoma cells  
*Winnok De Vos - University of Antwerp - Belgium*
- 18:45 - 19:00      Vimentin scaffolds YAP to support directional persistence in Wound Healing  
*Giulia Sultana - Åbo Akademi University - Finland*
- 19:00 - 19:15      Vimentin intratumoral heterogeneity shapes nuclear mechanotransduction, DNA damage sensing, and glioblastoma cell survival  
*Elvira Infante - Institut Pasteur, France*
- 20:00              Welcome Cocktail party





## THURSDAY, SEPTEMBER 25<sup>TH</sup>

07:00 - 09:00 Breakfast

09:00 - 10:30

**Plenary Session 3: Dynamics of IFs**

*Chair: Sandrine Etienne-Manneville*

09:00 - 09:30 Continuous self-repair protects vimentin intermediate filaments from fragmentation  
*Cécile Leduc - Institut Jacques Monod, France*

09:30 - 09:45 The vimentin network supports autophagosome biogenesis in response to starvation  
*Quentin Frenger - Institut Necker Enfants Malades, France*

09:45 - 10:00 Live Dynamics of Neurofilaments  
*Leticia Arias - Université Claude Bernard Lyon 1, France*

10:00 - 10:30 Decoding the intracellular logistics of intermediate filaments  
*Stéphanie Portet - University of Manitoba, Canada*

10:30 - 11:00 Coffee break



## THURSDAY, SEPTEMBER 25<sup>TH</sup>

11:00 - 12:30

### Plenary Session 4: Cross-talk & Signaling

*Chair: Onnik Agbulut*

- 11:00 - 11:30      **John Eriksson** - *Abo Akademi University, Finland*
- 11:30 - 11:45      Keratin filaments and soluble vimentin interact with isoform specificity to organize cell signaling  
*Benjamin Nanes* - *UT Southwestern Medical Center, USA*
- 11:45 - 12:00      Vimentin promotes actin assembly by stabilizing the interaction between ATP-actin monomers at the barbed end  
*Lilian Paty* - *Institut Jacques Monod, France*
- 12:00 - 12:30      Controlling vimentin filaments with optogenetics and chemical genetics tools  
*Anna Akhmanova* - *Utrecht University, The Netherlands*
- 12:30 - 12:45      **Flash Talks**
- *Caroline Haldin* - *Åbo Akademi University, Finland*
  - *Raphaël Crépin* - *Université Evry Paris-Saclay, France*
  - *Mira M.E. Minkkinen* - *Åbo Akademi University, Finland*
  - *Emmanuel Terriac* - *Institut Pasteur, France*
- 12:45 - 14:00      **Lunch**
- 14:00 - 16:00      **POSTER SESSION 1 & Coffee break with sponsors**

## THURSDAY, SEPTEMBER 25<sup>TH</sup>

16:00 - 17:30

### Plenary Session 5: Physiological roles of IFs

*Chair: Gisèle Bonne*

16:00 - 16:30

**Keratin 16 spatially inhibits type I interferon**

*Pierre Coulombe - University of Michigan, USA*

16:30 - 16:45

**Keratin filaments regulate organization of organelles and secretory compartments**

*Navaneetha Krishnan Bharathan - Penn State College of Medicine, USA*

16:45 - 17:00

**Vimentin supports primary cilium organization**

*Diego Moneo-Corcuera - Centro de Investigaciones Biológicas Margarita Sala, Spain*

17:00 - 17:30

**Misguided by a broken heart**

*Rudolf Leube - RWTH Aachen University, Germany*

17:30

**Free time in Lyon**



## FRIDAY, SEPTEMBER 26<sup>TH</sup>

07:00 - 09:00 Breakfast

09:00 - 10:30  
**Plenary Session 6: From cell to organogenesis**  
*Chair: Sandrine Etienne-Manneville*

09:00 - 09:30 Mutations in GFAP Alter Early Lineage Commitment of Organoids  
*Elly Hol - UMC Utrecht, The Netherlands*

09:30 - 09:45 The role of the intermediate filament protein Nestin in Glioblastoma biology  
*Léa Manke - Institut Pasteur, France*

09:45 - 10:00 Vimentin and PKM2: Emerging partnership to regulate glucose metabolism and respiratory pathways  
*Pallavi Devre - Åbo Akademi University, Finland*

10:00 - 10:30 Miniaturized engineered cardiac tissues to study the pathophysiology of desmin mutations  
*Pierre Joanne - Sorbonne Université, France*

10:30 - 11:00 Coffee break

11:00 - 12:30  
**Plenary Session 7: Inside-out of IFs**  
*Chair: Onnik Agbulut*

11:00 - 11:30 Regulation of vimentin remodeling by oxidative stress and pH  
*Dolores Pérez-Sala - CIB-CSIC Madrid, Spain*

11:30 - 11:45 Methodological development to identify the interactomes of IF proteins in vivo  
*Laurie-Anne Lamiré - Université Claude Bernard Lyon 1, France*

11:45 - 12:00 Intermediate Filaments Shape Host-Microbe Interactions in *C. elegans*  
*Florian Geisler - RWTH Aachen University, Germany*

12:00 - 12:30 Magneto-active substrates for mechanobiological assays: application to cytoskeletal dynamics in glioblastoma  
*Daniel Garcia-Gonzalez - University Carlos III of Madrid, Spain*

## FRIDAY, SEPTEMBER 26<sup>TH</sup>

12:30 - 12:45

### Flash Talks

- *Isa Decuypere* - University of Antwerp, Belgium
- *Elisabeth Cortier* - Université Claude Bernard Lyon 1, France
- *Maria Ilomäki* - Åbo Akademi University, Finland
- *Audrey Smith* - University of North Carolina, USA
- *Maritzaida Varela Salgado* - Institut Jacques Monod, France

12:45 - 14:00

Lunch - Sponsored by



14:00 - 16:00

Free time

16:00 - 18:00

POSTER SESSION 2 & Coffee break with sponsors

18:00 - 19:30

### Plenary Session 8: Dynamics & Regulations of IFs

Chair: *Anne Bertrand*

18:00 - 18:30

**Milos Pekny** - Gothenburg University, Sweden

18:30 - 18:45

Synemin and Microtubule Crosstalk in Glioblastoma Cell Invasion

*Lucas Pradeau-Phélut* - Institut Pasteur, France

18:45 - 19:00

DNA damage in LMNA-related congenital muscular dystrophy

*Marine Leconte* - Sorbonne Université, France

19:00 - 19:30

Spatially distinct regional functions for keratins in colonocytes during inflammation and proliferation

*Diana Toivola* - Åbo Akademi University, Finland

20:00

GALA DINNER

## SATURDAY, SEPTEMBER 27<sup>TH</sup>

07:00 - 09:00 Breakfast

09:00 - 10:30  
**Plenary Session 9: Translational development**  
*Chair: Gisèle Bonne*

09:00 - 09:30 Lysosomes in the pathogenesis of Pachyonychia congenita  
*Nicole Schwarz - RWTH Aachen University Hospital, Germany*

09:30 - 09:45 Cardiac cells with desmin gene mutations causing dilated cardiomyopathy are prone to Coxsackievirus-B infection  
*Domitille Callon - Sorbonne Université, France*

09:45 - 10:00 Atlas of DES (desmin) mutations  
*Andreas Brodehl - University Bochum, Germany*

10:00 - 10:30 Giulio Agnetti - *University of Bologna, Italy*

10:30 - 11:00 Coffee break

11:00 - 11:30 Prizes

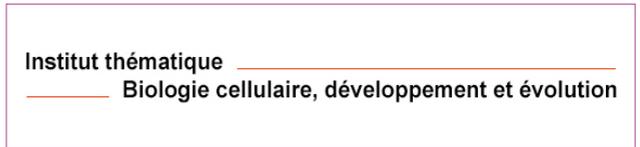
11:30 - 12:00 Closing remarks

12:00 Departure with Lunch boxes (*on reservation when you register*)

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## INSTITUTIONS & PARTNER SUPPORT



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