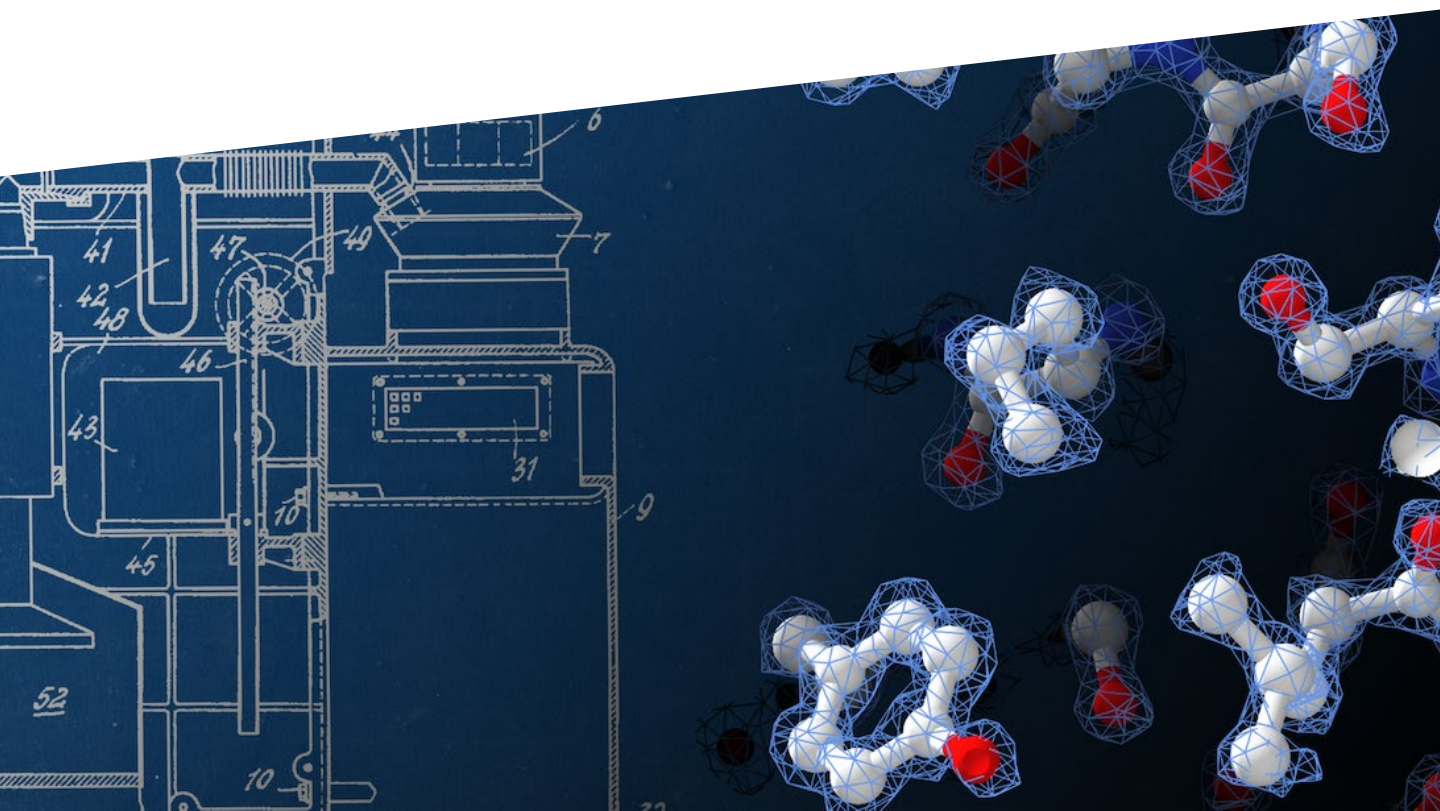


# CRYO-EM SYMPOSIUM

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29-30 September 2022  
Human Technopole, Milan (IT)



# SPEAKERS

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## Scientific Organisers

- **Gaia PIGINO** Associate Head, HT Structural Biology Research Center
- **Paolo SWUEC** Head, HT Cryo-EM Facility
- **Alessandro VANNINI** Head, HT Structural Biology Research Center

## Invited Speakers

- **Martin BECK**, Max Planck Institute of Biophysics
- **Bridget CARRAGHER**, Simons Electron Microscopy Center New York Structural Biology Center - Biochemistry and Molecular Biophysics Columbia University
- **Lori PASSMORE**, MRC Laboratory of Molecular Biology, Cambridge
- **Elizabeth VILLA**, Howard Hughes Medical Institute - University of California San Diego

## Internal Speakers

- **Ana CASAÑAL** Group Leader, HT Structural Biology Research Centre
- **Francesca COSCIA** Group Leader, HT Structural Biology Research Centre
- **Mirko CORTESE** Early Career Fellow, HT Structural Biology Research Centre - Telethon Institute for Genetics and Medicine
- **Philipp ERDMANN** Group Leader, HT Structural Biology Research Centre
- **Iain MATTAJ** HT Director
- **Gaia PIGINO** Associate Head, HT Structural Biology Research Center
- **Paolo SWUEC** Head, HT Cryo-EM Facility
- **Alessandro VANNINI** Head, HT Structural Biology Research Center

# SPEAKERS

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## Roundtable

- **Martin BECK**, Max Planck Institute of Biophysics
- **Bridget CARRAGHER**, Simons Electron Microscopy Center New York Structural Biology Center - Biochemistry and Molecular Biophysics Columbia University
- **Wim HAGEN**, European Molecular Biology Laboratory
- **Filippo MANCIA**, Physiology & Cellular Biophysics at Columbia University
- **Andrea MUSACCHIO**, Max Planck Institute of Molecular Physiology
- **Lori PASSMORE**, MRC Laboratory of Molecular Biology, Cambridge
- **Gaia PIGINO**, HT Structural Biology Research Center
- **Jurgen PLITZKO**, Max Planck Institute of Biochemistry
- **Paolo SWUEC**, HT Cryo-EM Facility
- **Alessandro VANNINI**, HT Structural Biology Research Center
- **Elizabeth VILLA**, Howard Hughes Medical Institute - University of California San Diego

# PROGRAMME

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DAY 1

**Thursday 29 September 2022**

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**09:00 - 10:45** **Registration\* (9.00 - 10:00) and Welcome Coffee**

*SESSION 1, chaired by Ana CASAÑAL*

**10:45 - 11:00** *"Greeting and Welcoming to Human Technopole"*  
Iain Mattaj (HT)

**11:00 - 11:30** *"An Introduction to HT's Structural Biology Research Centre"*  
Alessandro Vannini (HT)

**11:30 - 12:15** *"Molecular insights into to the mRNA poly(A) tail machinery"*  
Lori Passmore (MRC LMB)

**12:15 - 13:30** **Lunch break**

**13:30 - 14:00** **Tour of HT's Cryo-Electron Microscopy Core Facility (group 1)\***

*SESSION 2, chaired by Gaia PIGINO*

**14:00 - 14:30** *"Integrative approaches in CryoEM"*  
Ana Casañal (HT)

**14:30 - 15:15** *"Cryo-EM Automation: Better, Faster, Cheaper, Smarter"*  
Bridget Carragher (NYSBC - CUIMC)

**15:15 - 15:45** *"Cryo-EM across scales: a new dawn in thyroid biology"*  
Francesca Coscia (HT)

**15:45 - 16:00** *"Birth of HT's Cryo-Electron Microscopy Core Facility"*  
Paolo Swuec (HT)

**16:00 - 16:30** **Coffee break and photo session**

*ROUNDTABLE, chaired by Gaia PIGINO and Alessandro VANNINI*

**16:30 - 18:00** *"Envisioning structural biology in modern biology"*

# PROGRAMME

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DAY 2

**Friday 30 September 2022**

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- 9.30 - 10.00** **Tour of HT's Cryo-Electron Microscopy Core Facility (group 2)\***
- 10.00 - 10.30** **Coffee break**
- SESSION 3, chaired by Philipp ERDMANN*
- 10.30 - 11.00** *"HT's mission towards in situ structural cell biology"*  
Gaia Pigino (HT)
- 11.00 - 11.45** *"The structure of the nuclear pore complex"*  
Martin Beck (MPI of Biophysics)
- 11.45 - 12.15** *"Advanced microscopy to study virus-host interactions"*  
Mirko Cortese (TIGEM - HT)
- 12.15 - 13.30** **Lunch Break**
- 13.30 - 14.00** **Tour of HT's Cryo-Electron Microscopy Core Facility (group 3)\***
- SESSION 4, chaired by Francesca COSCIA*
- 14.00 - 14.30** *"Blobology 2.0"*  
Philipp Erdmann (HT)
- 14.30 - 15.15** *"Opening Windows into the Cell: Bringing Structure to Cell biology using cryo-electron tomography"*  
Elizabeth Villa (HHMI - UCSD)
- 15.15 - 15.30** **Closing remarks**

*\* During the registration the group for the Facility Tour will be assigned*