

# XXX International School of Biophysics



## PROGRAM

### Monday 2<sup>nd</sup> February 2026

8:30|9:00 Registration

9:00|10:00 Official Opening  
**Andrea Rinaldo** (IVSLA President) *Welcome from IVSLA*  
**Giorgio Giacometti** (Univ Padova) *Welcome from SIBPA – The International School of Biophysics turns 30*  
**Cesare Montecucco** (Univ. Padova, Accademia Nazionale dei Lincei) *Current events and perspectives of biophysical research*  
**Fernanda Laezza** (UTMB Galveston), **Carlo Musio** (IBF CNR Trento), **Ildikò Szabò** (Univ. Padova) *Introduction to the XXX SIBPA/IVSLA International School of Biophysics*

10:00|11:00 Keynote Lecture:  
**Frances Ashcroft** (Oxford University, UK)  
*ATP-sensitive potassium channels in health and disease*

11:00|11:30 Coffee break

11:30|12:30 **Annette Dolphin** (UCL, London, UK)  
*Voltage gated calcium channels, assembly, trafficking, function and dysfunction.*

12:30|14:00 Lunch

14:00|15:00 **Fernanda Laezza** (University of Texas Medical Branch, Galveston, USA)  
*Sodium channels: function and pharmacology*

15:00|16:00 **Raimund Dutzler** (University of Zurich, CH)  
*Volume regulated anion channels: from mechanisms to disease*

16:00|16:30 Coffee break

16:30|17:30 **Attendees' Flash presentations**

## Tuesday 3<sup>rd</sup> February 2026

9:00 10:00	<b>Anna Moroni</b> (University of Milano, Italy) <i>A synthetic potassium channel reduces oxidative stress via cellular adaptronics</i>
10:00 11:00	<b>Gerhard Thiel</b> (Technische Universität, Darmstadt, Germany) <i>The physical chemistry of K<sup>+</sup> channel gating</i>
11:00 11:30	Coffee break
11:30 12:30	<b>Gyorgy Panyi</b> (University of Debrecen, Hungary) <i>Targeting Kv1.3 with peptide toxins</i>
12:30 14:00	Lunch
14:00 15:00	<b>Sara Liin</b> (Linköping University, Sweden) <i>Ion channels in cardiac physiology and pathology – key players and promising therapeutic targets</i>
15:00 16:00	<b>Technical talks by sponsor companies</b>
16:00 16:30	Coffee break
16:30 17:30	<b>Poster session</b>

## Wednesday 4<sup>th</sup> February 2026

9:00 10:00	<b>Maurizio Taglialatela</b> (University of Naples “Federico II”, Naples, Italy) <i>Genotype-phenotype correlations and therapeutic targeting in KCNQ2-related disorders: challenges and opportunities</i>
10:00 11:00	<b>Marzia Martina</b> (National Research Council of Canada, Ottawa, Canada) <i>The Quest for the Ideal Painkiller: Small molecules vs biologic to modulate Nav1.7 channels activity</i>
11:00 11:30	Coffee break
11:30 12:30	<b>Gyorgy Panyi</b> (University of Debrecen, Hungary) <i>Conformational rearrangements in the Shaker K<sup>+</sup> channel during inactivation gating</i>
12:30 14:00	lunch
14:00 15:00	<b>FREE</b>
15:00 16:00	<b>FREE</b>
16:00 16:30	<b>FREE</b>
16:30 17:30	<b>FREE</b>

## Thursday 5<sup>th</sup> February 2026

- 9:00|10:00**    **Georg Nagel** (University of Würzburg, Germany)  
*Biophysics matters! A tale of misinterpreting electrophysiological data*
- 10:00|11:00**    **Vanessa Checchetto** (University of Padova, Italy)  
*Decoding the interactome of ion channels: proximity-labeling approaches to unveil channel-associated signaling networks*
- 11:00|11:30**    Coffee break
- 11:30|12:30**    **Agenor Limon** (University of Texas Medical Branch, Galveston, USA)  
*Reactivating human synaptic receptors to decode brain remodeling in disease*
- 12:30|14:00**    Lunch
- 14:00|15:00**    **Georg Nagel** (University of Würzburg, Germany)  
*From channelrhodopsins to optogenetics: A brief account of a (leading) witness*
- 15:00|16:00**    **Technical talks by sponsor companies**
- 16:00|16:30**    Coffee break
- 16:30|17:30**    **Poster session**

## Friday 6<sup>th</sup> February 2026

- 9:00|10:00**    Keynote Lecture:  
**Thomas J. Jentsch** (FMP, MDC and Charité, Berlin, Germany)  
*Vesicular anion transport in health and disease*
- 10:00|11:00**    **Thematic meetings & tutorials**
- 11:00|11:30**    Coffee break
- 11:30|12:30**    **Conclusive remarks, feedback and final salutation**

# XXX SCHOOL OF PURE AND APPLIED BIOPHYSICS

## Ion channels: Unveiling their biophysics in health and disease

Palazzo Franchetti, Venice, Italy

February 2-6, 2026

*Promoted and organized by The Italian Society for Pure and Applied Biophysics (SIBPA) and the Venetian Institute for Sciences, Arts and Humanities (IVSLA)*

### Scientific Coordinators

Fernanda Laezza (Dept. Pharmacology, UTMB, Galveston, USA)

Carlo Musio (Institute of Biophysics, National Research Council, Trento, Italy)

Ildikò Szabò (Dept. Biology, University of Padova), Italy)

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### Director of the schools

Giorgio M. Giacometti (IVSLA and University of Padova)

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### Webmaster & Media

Francesco Impallari (Institute of Biophysics, National Research Council, Palermo, Italy)

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