

XXX International School of Biophysics



FINAL PROGRAM

Monday 2nd February 2026

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| 8:30 9:15 | Registration |
| 9:15 10:00 | Official Opening Andrea Rinaldo (IVSLA President) <i>Welcome from IVSLA</i> Carlo Musio (IBF-CNR Trento) <i>Welcome from SIBPA</i> Fernanda Laezza (UTMB Galveston), Carlo Musio (IBF CNR Trento), Ildikò Szabò (Univ. Padova) <i>Introduction to the XXX SIBPA/IVSLA International School of Biophysics</i> |
| 10:00 11:00 | Keynote Lecture: Frances Ashcroft (Oxford University, UK) <i>ATP-sensitive potassium channels in health and disease</i> |
| 11:00 11:30 | Coffee break |
| 11:30 12:30 | Paolo Bernardi (University of Padova, IVSLA, Italy) <i>The unexpected transition of the mitochondrial ATP synthase into a channel</i> |
| 12:30 14:00 | Lunch |
| 14:00 15:00 | Fernanda Laezza (University of Texas Medical Branch, Galveston, USA) <i>Sodium channels: function and pharmacology</i> |
| 15:00 16:00 | Raimund Dutzler (University of Zurich, CH) <i>Volume regulated anion channels: from mechanisms to disease</i> |
| 16:00 16:30 | Coffee break |
| 16:30 17:30 | Attendees' Flash Presentations Session I |

Tuesday 3rd February 2026

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| 9:00 10:00 | Anna Moroni (University of Milano, Italy) <i>A synthetic potassium channel reduces oxidative stress via cellular adaptronics</i> |
| 10:00 11:00 | Gerhard Thiel (Technische Universität, Darmstadt, Germany) <i>TMEM175 functions as lysosomal ion channel, but what does it conduct?</i> |
| 11:00 11:30 | Coffee break |
| 11:30 12:30 | Gyorgy Panyi (University of Debrecen, Hungary) <i>Targeting Kv1.3 with peptide toxins</i> |
| 12:30 14:00 | Lunch |
| 14:00 15:00 | Sara Liin (Linköping University, Sweden) <i>Ion channels in cardiac physiology and pathology – key players and promising therapeutic targets</i> |
| 15:00 16:00 | Technical talks by sponsor companies: 3Brain / Elements |
| 16:00 16:30 | Coffee break |
| 16:30 17:00 | Attendees' Flash Presentations Session II |
| 17:00 17:45 | Poster Session |

Wednesday 4th February 2026

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| 9:00 10:00 | Maurizio Taglialatela (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 | Marzia Martina (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 | Gyorgy Panyi (University of Debrecen, Hungary) <i>Conformational rearrangements in the Shaker K⁺ channel during inactivation gating</i> |
| 12:30 14:00 | Lunch |
| 14:00 15:00 | Free Time |
| 15:00 16:00 | Free Time |
| 16:00 16:30 | Free Time |
| 16:30 17:30 | Free Time |

Thursday 5th 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: Nanion / Crisel Instruments**
- 16:00|16:30** Coffee break
- 16:30|17:30** **Poster session**

Friday 6th February 2026

- 9:00|10:00** The EMBO 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)

Director of the schools

Giorgio M. Giacometti (IVSLA and University of Padova)

Webmaster & Media

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

Technical and Organizing Secretariat

Laura Padoan (IVSLA, Venice, Italy)

DOUBLE EM (Genova, Italy)

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