

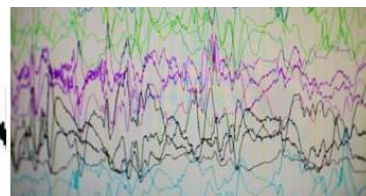
## NEWSLETTER 2019

### #7 - July

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**[bySIBPA] [WS/SY] Symposium “Ion Channels and Disease”, IBF & FBK, Trento**



# **ION CHANNELS AND DISEASE**

**A HALF-DAY SYMPOSIUM ON THE BIOPHYSICS OF ION CHANNELS UNDERLYING THE  
PATHOGENESIS OF NEURONAL AND NON-NEURONAL DISEASES**

**September 16, 2019, Fondazione Bruno Kessler, Trento**

**Keynote Lecturers:**

**Walter Stühmer**

Max Planck Institute for Experimental Medicine, Göttingen (D)

**Michael Pusch**

Istituto di Biofisica del CNR (IBF-CNR), Genova (I)

**Young Speakers:**

**Aura M. Jimenez-Garduño**

Universidad de las Américas Puebla (UDLAP), Puebla (MEX)

**Vladimir A. Martinez Rojas**

Istituto di Biofisica del CNR (IBF-CNR), Trento (I)

**Laura Tosatto**

Istituto di Biofisica del CNR (IBF-CNR), Trento (I)


**Davide Aiello**

Istituto di Biofisica del CNR (IBF-CNR) & CIBIO UniTN, Trento (I)

**Andrea Spanu**

Università di Cagliari & Fondazione Bruno Kessler (FBK) Trento (I)

**Organization:**

Carlo Musio (IBF-CNR, SIBPA), Mauro Dalla Serra (IBF-CNR), Daniele Arosio (IBF-CNR), Leandro Lorenzelli (FBK-CMM), Cecilia Pederzoli (FBK-LabSSAH). INFO:  [carlo.musio@cnr.it](mailto:carlo.musio@cnr.it)

**With the support of:**



**[CfPO] [Ebsa] Binational PhD project in biochemistry and biophysics at the universities of  
Strasbourg and Freiburg**

**International PhD project in biochemistry and biophysics at the  
Universities of Strasbourg (France) and Freiburg (Germany)**

An exciting, multi-disciplinary binational PhD project, fully funded, is suggested by the Bioelectrochemistry and Vibrational Spectroscopy Group at the UMR 7140 of the University of Strasbourg and the Biochemistry group 'Molecular Bioenergetics' at the Faculty of Chemistry and Pharmacy at the University of Freiburg.

We invite applications from highly motivated individuals who hold a master degree (or equivalent) in biochemistry or biophysics (and similar fields) and who are available to start in September 2019. Applicants should have excellent communication skills and sufficient command of English.

The project is a part of an ambitious research program that aims at the study of the catalytic mechanism of membrane proteins from the respiratory chain and their inhibition. The project provides a unique opportunity for the successful candidate to engage in inter-disciplinary research using a variety of experimental techniques at the interface of physical chemistry, biophysics, including different spectroscopies, electrochemistry and high-level molecular biology and cutting edge structural biology.

The laboratory in France (<http://complex-matter.unistra.fr/>) is located close to the center of Strasbourg and the university of Strasbourg (<http://www.unistra.fr/>) is located in the upper Rhine area, that includes a number of excellent universities (<https://www.eucor-uni.org/en/>). The group has an expertise in a variety of research areas including electrochemistry, infrared / THz and Raman spectroscopies and applied on biological molecules. The group has strong international collaborations with laboratories based in Europe and abroad.

The laboratory in Germany (<http://www.biochem.uni-freiburg.de/>) is part of the Eucor Network, at the Albert-Ludwigs-University Freiburg and located close to the city center. The group is recognized in the field of structure/function relationship of membrane proteins including protein purification, generation and production of mutant protein, EPR spectroscopy, x-ray crystallography, cryo-EM fluorescence microscopy and native electrophoresis. The group has several international collaborations. The laboratory language is English.

The student will be integrated in the binational PhD college "enzyme relativities and their applications".

For application and further information, please send a cover letter along with a CV, the results of your master (and bachelor), a short description of your motivation and other research activities and including the contact details of two references to [hellwig@unistra.fr](mailto:hellwig@unistra.fr) or [friedrich@bio.chemie.uni-freiburg.de](mailto:friedrich@bio.chemie.uni-freiburg.de). latest the 14. July 2019. The documents sent should not exceed 5 MB. Please note that incomplete applications will not be considered.

[CfPO] Post Doctoral position in Accardi lab, Weill Cornell Medicine, New York



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**Postdoctoral positions to study the mechanisms of ion channels, transporters and lipid scramblases available in the laboratory of Alessio Accardi**  
*Weill Cornell Medical College in New York City*

The group of Alessio Accardi is recruiting *two enthusiastic postdocs* interested in understanding the molecular workings of phospholipid scramblases, ion channels and secondary active transporters. The successful candidate(s) will investigate the structure and mechanism of these membrane proteins using single-particle cryo-EM, functional assays and bioinformatic analyses. The lab uses an integrated approach combining biochemical assays, electrophysiological measurements and structural techniques to elucidate the mechanistic bases of transmembrane ion and lipid transport. Please, see the recent articles below for examples or visit the lab website at <https://www.accardilab.com/>.

We are located at Weill Cornell Medical College, in the Upper East Side of Manhattan, within the vibrant tri-Institutional community, which also comprises the Rockefeller University and Memorial Sloan Kettering. Screening electron microscopes are available on site in the newly established cryo-EM core facility at Weill Cornell, and we have full access to state-of-the-art Titan Krios microscopes for high-resolution data collection at the New York Structural Biology Center and at other cost-based facilities.

**Qualifications and experience:** Candidates should hold a Ph.D. and have a solid background in biophysics, electrophysiology, and/or protein biochemistry. Experience with cryo-EM is welcome, but not required. Excellent verbal and written English communication skills and ability to work in close collaboration with other researchers are required.

Qualified applicants should send a cover letter, CV, and the names of three references by email to Alessio Accardi at [ala2022@med.cornell.edu](mailto:ala2022@med.cornell.edu).

1. Falzone M.E., Rheinberger J., Lee, B.C., Peyear T., Sasset L., Raczkowski A.M., Eng E.T., Di Lorenzo A., Andersen O.S., Nimigean C.M., Accardi A., "Structural basis of Ca<sup>2+</sup>-dependent activation and lipid transport by a TMEM16 scramblase", *eLife*, 2019;8:e43229, doi: 10.7554/eLife.43229
2. Lee, B.C., Kelashvili, G., Falzone, M., Menon, A. K., Weinstein, H. and Accardi, A., "Gating mechanism of the lipid pathway in a TMEM16 scramblase", *Nat Comms*, 2018, 9(1):3251, doi: 10.1038/s41467-018-05724-1, PMID: 30108217.
3. Malvezzi, M., Andra, K.K., Pandey, K., Lee, B.C., Brown, A., Iqbal, R., Menon, A.K., Accardi, A. "Out of the groove transport of lipids by TMEM16 and GPCR scramblases", *Proc Natl Acad Sci USA*, 2018, June 20, doi: 10.1073/pnas.1806721115, PMID: 29925604. \*\*With a commentary in *PNAS*
4. Vien M, Basilio D, Leisle L, Accardi A. "Probing the conformation of a conserved glutamic acid within the Cl<sup>-</sup> pathway of a CLC H<sup>+</sup>/Cl<sup>-</sup> exchanger." *J Gen Physiol*. 2017 Apr 3;149(4):523-529. doi: 10.1085/jgp.201611682.



**[CfPO] Postdoc position on multimodal optical microscopy with applications in biophysics - Diaspro lab, IIT, Genova**



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**Postdoc Position on Multimodal Optical Microscopy with applications in Biophysics. - [ Postdoc ]**

Workplace: Genova, IIT

Added on: 18/06/2019 - Expires on: 28/07/2019

We are looking for a skillful and motivated young scientist with a background in biology, biophysics or closely related discipline with previous experience in fluorescence labeling and imaging. The candidate should ideally have documented expertise in optical microscopy including illumination sources, image processing, detection, fluorescence and other mechanisms of contrast fluorescence labeling. Previous experience in confocal laser scanning microscopy, two-photon excitation and STED (stimulated emission depletion microscopy) will be considered a plus. Applicants close to finishing their PhD are also welcome to apply. Ability to work as part of a team is fundamental.

The project - involves the set-up of a multimodal beam scanning optical microscope to investigate biological cells providing information at molecular resolution about chromatin organization and functional consequences. To this end, the successful candidate will work on optical modules implementing a variety of mechanism of contrast (fluorescence parameters, phase information, polarization based information). The project will be carried out within the multidisciplinary environment available in IIT with specific interest for collaborations in biology and smart materials

Your application (deadline July 28<sup>th</sup> 2019): Applications, including a CV, a short motivation letter highlighting your research interests (max one page) and name and contact informations of 2 referees, should be submitted to Prof. Alberto Diaspro, [alberto.diaspro@iit.it](mailto:alberto.diaspro@iit.it) (mailto:alberto.diaspro@iit.it) , quoting "Postdoc BC 74315 " in the subject.

Istituto Italiano di Tecnologia, with its headquarters in Genoa, Italy, is a non-profit institution with the primary goal of creating and disseminating scientific knowledge and strengthening Italy's technological competitiveness. IIT was established in 2003 and successfully created a large-scale infrastructure in Genova, a network of 10 state-of-the-art laboratories countrywide and recruited an international staff of about 1200 people from more than 50 countries. IIT's research endeavour focuses on high-tech and innovation, representing the forefront of technology with possible application from medicine to industry, computer science, robotics, life sciences and nanobiotechnologies.

Istituto Italiano di Tecnologia is an Equal Opportunity Employer that actively seeks diversity in the workforce

*Please note that the data that you provide will be used exclusively for the purpose of professional profiles' evaluation and selection, and in order to meet the requirements of Istituto Italiano di Tecnologia.*

*Your data will be processed by Istituto Italiano di Tecnologia, based in Genoa, Via Morego 30, acting as Data Controller, in compliance with the rules on protection of personal data, including those related to data security.*

*Please also note that, pursuant to articles 15 et. seq. of European Regulation no. 679/2016 (General Data Protection Regulation), you may exercise your rights at any time by contacting the Data Protection Officer (phone +39 010 71781 - email: [dpo\[at\]iit.it](mailto:dpo[at]iit.it))*

Contacts

Alberto Diaspro  
[alberto.diaspro@iit.it](mailto:alberto.diaspro@iit.it)

**[CfPO] Postdoctoral position in Biophysics - The Finzi-Dunlap lab at Emory University**

**Postdoctoral position in Biophysics**

The Finzi-Dunlap lab at Emory University seeks a motivated experimentalist to help investigate the interplay between transcriptional regulation, DNA topology and supercoiling (<http://www.physics.emory.edu/faculty/finzi/>).

*Required qualifications:*

- Ph.D. in biophysics, physics, chemistry, biochemistry, or a related field.
- Fluent English (spoken and written).
- Self-motivated with a strong work ethic.
- Ability to work independently as well as collaboratively.

*Additional Qualifications:*

- Proficiency assembling and modifying optical instrumentation.
- Proficiency with MatLab or Labview programming.
- Proficiency in data analysis.
- Prior single molecule experience is desirable.
- Proficiency with routine molecular biology and/or biochemistry is desirable, but not essential.

Salary will be commensurate with experience, and follow NIH guidelines.

Applicants should send a curriculum vitae, the names and email addresses of three references, as well as a brief statement on how their experience and goals relate to our work to [lfinzi@emory.edu](mailto:lfinzi@emory.edu).

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*[Newsletter closed on 16/07/2019]*