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### **[bySIBPA] Congresso EBSA 2023**

Vi ricordiamo che per il Congresso EBSA che si terrà a Stoccolma dal 31 luglio al 4 agosto 2023 la SIBPA mette a disposizione di giovani ricercatrici e ricercatori non strutturati (dottorandi e borsisti postodoc) alcune borse di studio. La scadenza per la presentazione delle domande è il 13 aprile 2023 ed il bando completo è sul sito SIBPA ([https://www.sibpa.it/images/Congressi/Bando\\_EBSA\\_2023.pdf](https://www.sibpa.it/images/Congressi/Bando_EBSA_2023.pdf)).

### **[bySIBPA] CMD30 FISMAT2023 Joint Conference**

Siamo lieti di comunicarvi che la SIBPA organizza una sessione nell'ambito della CMD30 (Condensed Matter Division) dell'EPS come Joint Conference al FisMat2023 che si terrà nei giorni 4-8 settembre 2023 a Milano (<https://eventi.cnism.it/cmd30-fismat>).

In occasione del 50° anno dalla fondazione della società, la SIBPA ha proposto un mini-colloquium dal titolo "50 years of SIBPA: a journey through the molecules of life", durante il quale vorremmo celebrare il cinquantenario con una selezione di talk di biofisica che illustrino almeno alcune tra le numerose tematiche relative alle molecole della vita. Sollecitiamo l'invio di contributi, in cui va inserito il riferimento al nostro mini-colloquium (<https://eventi.cnism.it/cmd30->



[www.sibpa.it](http://www.sibpa.it)



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[www.sibpa.it/youtube](https://www.sibpa.it/youtube)

[fismat/minicolloquia](#) ). Un menù a tendina vi permetterà di scegliere il mini-colloquium SIBPA al momento della sottomissione.

Vi preghiamo caldamente di inviare gli abstract entro il 9 aprile, ovvero una settimana prima della scadenza ufficiale (15 Aprile), per darci modo di organizzare al meglio la sessione.

Per informazioni e chiarimenti scrivere ad Antonella Battisti ([antonella.battisti@nano.cnr.it](mailto:antonella.battisti@nano.cnr.it)).

### [bySIBPA]

Con grande entusiasmo vi anticipiamo che dal 16 al 23 ottobre 2023 al Centro Majorana di Erice nell'ambito dell' INTERNATIONAL SCHOOL OF BIOPHYSICS "ANTONIO BORSELLINO" ci sarà la scuola "Memos for Biophysics into the Future: lightness, quickness, exactitude, visibility, multiplicity, and consistency". Direttori di questa scuola saranno Mauro Dalla Serra, Alberto Diaspro e Cristiano Viappiani. A breve vi invieremo i dettagli!

### [bySIBPA] Biophysics@Rome 2023

Siamo quasi arrivati all'annuale appuntamento "Biophysics@Rome" il cui titolo sarà "On the path to sustainability". Segnaliamo che in occasione dei 50 anni della SIBPA e del centenario della nascita di Italo Calvino, il presidente della SIBPA Alberto Diaspro con Laura Di Nicola del Laboratorio Calvino della Sapienza imposteranno un dialogo su "Indistinti confini". Maggiori informazioni alla pagina <http://www.biophysicsatrome.org/Conference2023/Program-Biophysics@Rome%202023.pdf>

### [CfPo] Postdoctoral Fellowship: Data-driven approaches to study mechano-genetic interactions in stem cell aggregates

Recent studies have shown that embryonic stem cells can self-organize into 3D structures called embryonic organoids that reproduce early mammalian embryogenesis. These systems offer the possibility to understand how the primary axis is formed and how the body plan is laid down. In this context, we aim to identify the cellular mechanisms leading to the initial polarization of organoids, which defines different territories of gene expression and the primary axis. Our preliminary data indicate that different processes contribute to the polarization of these aggregates, which include cell differentiation, but also the



motion of individual cells, large-scale tissue flows, and cell division. However, the relative importance of these processes and their interactions are so far completely unknown.

The researcher will work in close collaboration with experimentalists to develop novel analysis tools that will allow us to exploit the power of genetics and mechanical perturbation in this in-vitro system. This will involve the development of image analysis methods as well as new approaches to harness RNA sequencing data with the aim to quantitatively characterize the interactions between genetic mechanisms of cell fate specification and mechanically driven tissue deformation, cellular motion, and cell division. These results will be integrated with theoretical modeling to elucidate how the balance between biochemical signaling and mechanics confers robustness to axis formation.

The project will be carried out between two institutes, the EMBL (European Molecular Biology Laboratory) in Barcelona and the Turing Center for Living Systems in Marseille. It will be embedded in a long-term, ERC-funded collaboration between the teams of Vikas Trivedi, Verena Ruprecht (both Barcelona), Matthias Merkel, and Pierre-François Lenne (both Marseille).

Expected profile of the applicant: Bio-physicist, computer scientist, or applied mathematician with a strong interest in data analysis and morphogenesis

Start date: September 2023 or later (earlier starting date can also be discussed)

To apply: We invite applicants to submit to [vikas.trivedi@embl.es](mailto:vikas.trivedi@embl.es) and [matthias.merkel@univ-amu.fr](mailto:matthias.merkel@univ-amu.fr): a CV, a letter covering prior research experience and professional interests (1 page), and contact information of 3 references.

Informal inquiries are welcome.

### **[CfPo] Tenure Track: Associate Professor, Universidad Nacional Autónoma de México, Instituto de Ciencias físicas, UNAM-Campus Morelos**

The Biophysics Group at the Institute of Physical Sciences of Universidad Nacional Autónoma de México, Campus Morelos, is seeking a Biophysicist to fill a tenure-track Associate Professor position. The applicant's research should address fundamental and state-of-the-art biophysical questions (<https://www.fis.unam.mx/areas/9/biofisica-y-ciencia-de-materiales>).

Among other techniques, the applicant must show experience in any of the following experimental and biomolecular modeling techniques like fluorescence



microscopy, calorimetry, scanning microscopy, electrophysiology, atomic force microscopy, and molecular dynamics machines (GROMACS, CHARMM, AMBER, etc.). The appointee is expected to conduct vigorous independent research and participate in professional and graduate teaching, grant applications, and student training. The contract is based on UNAM's Subprogram for Incorporation of Young Career Academics (SIJA, by its Spanish acronym), which sets an age limit of 39 years for men and 37 years for women at the time of application. APPLY AT: [secacad@icf.unam.mx](mailto:secacad@icf.unam.mx) with a copy to [ramon@icf.unam.mx](mailto:ramon@icf.unam.mx) sending the following documents (Spanish or English):

1. The applicant must show formal postdoctoral training.
2. Proof of Ph.D./Sc.D. diploma.
3. Copy of passport or any other identification documents.
4. A well-reasoned cover letter indicating interest in the position, research and teaching experience, and other professional skills.
5. A CV which must include a list of publications indicating IF, quartile, DOI, and the number of citations.
6. A two to three pages statement of his/her research interest, working research plan to develop in three years.
7. The names, phone numbers, and current working e-mail addresses of three professional references uploaded as a separate document.

DEADLINE: May 5th, 2023.

### [CONF] Cell Physics 2023

Dear biophysics friends,

we are happy to announce the conference “Cell Physics 2023” jointly held by the Collaborative Research Center 1027 and the German Society of Cell Biology (DGZ). The conference includes 35 invited talks, numerous contributed talks, poster sessions, and social events.

Place: Saarbrücken, Germany

Time: Oct. 10-13, 2023

WWW: <https://www.cell-physics.uni-saarland.de>

We are looking forward to welcome you in Saarbrücken!

The organization team

(Franziska Lautenschläger, Ludger Santen, Jochen Hub, Heiko Rieger, Sandra Iden)



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