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[bySIBPA] Congresso EBSA 2023

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vi ricordiamo che per il Congresso EBSA che si terrà a Stoccolma dal 31 luglio al 4 agosto 2023 la scadenza per la sottomissione degli abstract è il 19 aprile (<https://mkon.nu/ebsa>).

[bySIBPA] Biophysics@Rome 2023

A Roma il 19 e il 20 aprile ci sarà l'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 dialogherà con Laura Di Nicola del Laboratorio Calvino della Sapienza. Maggiori informazioni alla pagina <http://www.biophysicsatrome.org/en/program2023>



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[CfPo] PhD “Marie Skłodowska-Curie” Positions (Early Stage Researchers, ESR)

We are looking for 8 ESRs to work on **STRIKE** — HORIZON-MSCA-2021-DN-01 project. STRIKE aims to develop a research and training network in nanomedicine/precision medicine, rising a new generation of entrepreneurial and innovative multidisciplinary young researchers (<https://cordis.europa.eu/project/id/101072462>).

STRIKE will provide enhanced career perspectives in academic and non-academic sectors for 8 ESRs in highly innovative fields by interdisciplinary mobility among 12 institutes/companies in 8 EU countries. The applicants, at the time for the application, should not have resided in the country where are applying to, for more than 12 months in the 3 years immediately prior to the reference date. Moreover, the applicants must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree. The salary will be very competitive and will include the living allowance (\approx 2680-3615€ gross/month according to the country correction coefficient), the mobility allowance (600€) and optional family allowance (495€).

We are happy to consider CV of interested applicants and receive Expression of Interest and queries at our emails. The call will open on EURAXESS on 1st March 2023 (deadline 15 April 2023). In details: Projects		Project Description
1	University of Messina, Italy https://www.unime.it . Supervisor Prof. Anna Piperno apiperno@unime.it	Development of innovative magnetic nanomaterials for drug delivery or for biosensing. The candidate should have preferably a M.Sc in Chemistry or related topics.
2	National Research Council of Italy , https://www.istec.cnr.it/ . Supervisor Dr. Monica Montesi	Design/characterization of 3D scaffold-based in vitro tumor model. The candidate should have preferentially a M.Sc. in Biology, Biotech or related topics.



	monica.montesi@istec.cnr.it	
3	Maynooth University, Ireland https://www.maynoothuniversity.ie/ Supervisor Dr. Diego Montagner diego.montagner@mu.ie	Development of new chemo-theranostics anticancer Pt-based compounds. The candidate should have a M.Sc. or 4 years BC in Chemistry or related topics.
4	Palacký University in Olomouc, Czechia https://www.upol.cz/en/ Supervisor Dr. Vaclav Ranc vaclav.ranc@upol.cz	Synthesis and characterisation of magnetic nanoplateforms as active drug delivery systems. The candidate should have a M.Sc. in Chemistry.
5	Nantes Université, France https://www.univ-nantes.fr/ Supervisor Prof. Dominique Heymann dominique.heyman@univ-nantes.fr	Development of the 3D <i>in vitro</i> cell-based cancer models. Study of cell dormancy in osteosarcoma and its targeting by nanotherapeutics. The candidate should have a M.Sc. in Biology or related topics.
6	Nanotech Solutions Sociedad Limitada, Spain , https://www.ntsol.es/ Supervisor Dr. Francisco J. Teran info@ntsol.es	Characterization of magnetic nanomaterials. Design of a DC magnetic field generator to <i>in vivo</i> guide and accumulate magnetic scaffolds. The candidate should have a M.Sc. in Physics or Engineering or Nanotech.
7	Cogentech Società Benefit S.r.l., Italy , https://www.cogentech.it/index-en.php .	Development of new liquid biopsy-based tools for cancer diagnostics. The candidate should have preferably a M.Sc. in Biology or related topics.



	Supervisor Dr. Nina Offenhäuser nina.offenhauser@cogentech.it	
8	Medical University of Vienna, Austria . Supervisors: Dr. Thomas Wanek and Dr. Claudia Kuntner-Hannes thomas.wanek@meduniwien.ac.at and claudia.kuntner-hannes@meduniwien.ac.at	Radiolabelling of magnetic nanomaterials and subsequent <i>in vitro</i> / <i>in vivo</i> characterization. The candidate should have preferably a M.Sc in Chemistry or related topics

[CfPo] SMASH Postdoc Positions available

The first call for applications for SMASH postdoctoral Fellowships, co-funded by Marie Skłodowska Curie Actions, is now open! It offers excellent research opportunities that revolve around applications of machine learning to the fields of climate research, linguistics, precision medicine and fundamental physics.

In this call, SMASH aims to hire 15 fellows who will be hosted in **five Slovenian institutions**. They can also spend up to 1/3 of their fellowship duration at one of our international academic partners (including top EU centres like Gravitation and Astroparticle Physics at the University of Amsterdam, and world-leading institutions like CERN and UC Berkeley) or at some of the most successful Slovenian companies.

Each fellowship offers excellent working conditions, access to top infrastructure (including the peta supercomputer Vega), substantial research and travel funds and a salary that is significantly higher than local costs of living.

In order to apply, fellows need to contact their desired supervisor who will assist them in preparing short research proposals and provide them with the necessary letters of support from the host institutions (for more information see: <https://smash.ung.si/>). The application deadline is April 15th.



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[CfPo] 2 Postdoc Positions available at Madrid, Spain

Two fully funded postdoctoral positions in the area of Structural Biology are available at Centro Nacional de Biotecnología (CNB-CSIC), Madrid, Spain.

PIs: Mark J. van Raaij, Carmen San Martín

Starting on: June 2023

Contract length: 3 years

Subject: The intelligent design of more efficient adenovirus vectors using structural data.

Tasks: To solve structures of adenovirus particles or adenovirus proteins, alone or in complex with hosts factors. To analyze structures and design changes in proteins to tailor more favorable virus host interactions for efficient targeting and gene delivery.

Requested skills:

Position A: demonstrated experience in protein structure determination. Additional experience in virus structure, protein crystallography or cryo-electron microscopy strongly desired.

Position B: demonstrated experience in protein design / protein-protein interactions. Additional experience in virus structure or protein structure determination strongly desired.

Requirements for both positions:

Applicants should hold a PhD degree in biochemistry, structural biology, biophysics, protein chemistry or a related discipline.

Ability to work independently and efficiently as part of a team.

Well organized with attention to detail and excellent record keeping.

Strong communication skills and fluency in written and spoken English.

Enthusiasm, motivation, and capability to learn new methods.

Problem-solving skills.

Ability to work in an international collaborative research setting.

How to apply: please send to iads@cnb.csic.es a PDF document containing: a cover letter describing your previous research achievements and motivation to apply; your detailed CV including a list of publications and explaining your own contribution; contact information for at least two references (ideally including your PhD supervisor). Please indicate whether you are applying to Position A or B.



[CfPo] Postdoc Positions available at Bristol, UK

Exciting post-doctoral position in Synthetic Biology and Protein Engineering available in the Berger and Schaffitzel labs at the Bristol School of Biochemistry, the BioDesign Institute and the Max Planck-Bristol Centre for Minimal Biology. As part of the ADDovenom team (<https://addovenom.com>), you will utilize state-of-the-art selection/evolution technology (Ribosome Display) to generate high-affinity binders (nanobodies and new scaffold proteins) that neutralise snake venom toxins. This project is an international collaboration with Nicholas Casewell at the Liverpool School of Tropical Medicine, Loic Quinton at University of Liege, Belgium and Renaud Vincentelli at University of Aix-Marseille, France to develop new, safe and efficient antivenom to treat snakebites.

Experience with protein expression and purification is essential. Experience with biochemical and biophysical analysis of proteins and RNA isolation and preparation, and/or current molecular biology methods is a definite plus.

We are seeking to fill the post asap. Application deadline is 28th February 2023. Please use this link to apply:

<https://www.bristol.ac.uk/jobs/find/details/?nPostingId=139874&nPostingTargetId=303155&id=Q50FK026203F3VBQBV7V77V83&LG=UK&mask=newuobext>

[CfPo] PhD Positions available at Helsinki

A PhD student position is open in a multidisciplinary research environment of the Barrier Force Center of Excellence (<https://barrierforce.utu.fi/>) (Academy of Finland), at Univ Helsinki. The candidate will work in a project focusing on the regulation of the endothelial barrier via actin remodelling using state-of-the-art biochemical, cell biological, genetic, biophysical, and structural biology methods to reveal how structure and dynamics of the actin cytoskeleton are regulated in various cellular and pathological processes in the vascular system. The selected applicant will also have an opportunity to get training in carrying out biomolecular computer simulations and utilize these simulation approaches in their own projects.

The project is a collaboration between the Actin-based molecular machines group of Academy Prof. Pekka Lappalainen at Institute of Biotechnology, the Translational Vascular Biology group of Prof. Pipsa Saharinen at Faculty of



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Medicine, and the Biological Physics group of Prof. Ilpo Vattulainen at Faculty of Science.

We are seeking for a talented and enthusiastic PhD student with a MSc degree or similar in life sciences. Expertise in cell biology or protein biochemistry is highly beneficial.

Application should include the following documents as a single PDF file (max 5 pages):

- CV & List of publications
- Description of your research interests, and
- The names and telephone numbers of two referees to provide a letter of recommendation (letters of recommendation do not need to be attached to the application at this stage; they are requested as needed).

Please send your application as the required PDF attachment by E-mail to: pipsa.saharinen@helsinki.fi;

pekka.lappalainen@helsinki.fi; ilpo.vattulainen@helsinki.fi.

Salary: The gross salary is between (approximately) 2400-3200 EUR / month, increasing as the dissertation research progresses.

Deadline: March 23, 2023. Applications can be sent also after that as the position will be available until a suitable candidate has been found.

[CfPo] PhD Positions available at the Max Planck Institute for Multidisciplinary Sciences in Göttingen, Germany

The Max Planck Institute for Multidisciplinary Sciences in Göttingen, Germany, is a leading international research institute of exceptional scientific breadth.

The research group for Mathematical bioPhysics (Dr. Aljaz Godec) is inviting applications for PhD Student Positions in Mathematical biophysics for the following projects:

- Signatures of hidden degrees of freedom in time-ordering of projected states (Theory)
- Mapping manifestations of hidden dimensions and currents in projected observables (Computation & Theory)
- Inferring hidden dynamics from single-molecule experiments (Computational inference, “complex-data” analysis)



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Please indicate in your application which of the above listed projects is most intriguing for you.

We are developing and applying methods of mathematical physics and probability theory to study non-equilibrium phenomena in soft matter and biophysics, i.e. “ $k_B T$ physics”. We aim in particular at a trajectory - (or sample path) based description of statistical mechanics and thermodynamics with emphasis on the manifestations of hidden degrees of freedom in lowdimensional projections that are inherent to experimental observations. The projects are part of the ERC Consolidator Grant “HiddenBio” devoted to understanding and inferring hidden states and currents in biological systems.

The successful candidate has a strong background and experience in statistical or mathematical physics, theory of stochastic processes, and/or stochastic thermodynamics in combination with a strong interest in interdisciplinary research and collaboration with experimental groups. You hold (or expect to complete soon) a Masters or equivalent degree in any of these or a related field.

Our offer

- Competitive research in an inspiring, world-class environment
- Professional training, networking and career-development opportunities
- A wide range of offers to help you balance work and family life: on-campus kindergarten places including vacation care, parent-child offices, etc.
- On-site health management offers and free in-house language courses

The group language is English, so no German language skills are required.

You will have the opportunity to participate as PhD candidate in one of several available programs, initially with three years funding, in collaboration with the University of Göttingen.

Payment and benefits are based on the German Public Service Payscale (TVöD Bund) guidelines. The positions are available from May 1 2023 onward.

Applications will be reviewed on a rolling basis until the positions are filled. Please submit your application package including cover letter (explaining background and motivation), CV incl. contact details of two referees, copy of Bachelor and Masters certificate, and publication list, preferably via E-Mail as a single PDF file to ausschreibung12-23@mpinat.mpg.de

Max Planck Institute for Multidisciplinary Sciences

Research Group “Mathematical bioPhysics”

Dr. Aljaz Godec

Am Faßberg 11



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Web: <https://www.mpinat.mpg.de/godec>

[CS] Thematic School « Vibrational and Electronic spectroscopies applied to the study of reaction mechanisms

We would like to inform you that the Thematic School « Vibrational and Electronic spectroscopies applied to the study of reaction mechanisms - MECAREACT», co-funded by the French Council of Scientific Research (CNRS), will be held in Paris (France) in the "FIAP Jean Monnet" conference center (30 Rue Cabanis - 75014 Paris) from the 18th to the 23rd of June 2023.

Registration is now open on the website <https://mecareact.sciencesconf.org/>
The deadline is the 15th of March 2023.

The School will cover all the main fields of vibrational and electronic spectroscopies (IR, Raman, Resonance Raman, UV-Vis, fluorescence, etc.) applied to the investigation of reaction mechanisms in various fields of chemistry (photochemistry, biochemistry, catalysis, etc.). Its official language will be English. The School will be chaired by Dr. Alberto Mezzetti (Associate Professor, Sorbonne University, Paris) and Dr. Josefine Schnee (CNRS Researcher, Sorbonne University, Paris). It is open to everyone with a sincere interest in the topic of the school: PhD students, post-docs, engineers, researchers, etc. from anywhere in the world. The minimum requirement is a basic knowledge of optical spectroscopy and reactions in chemistry at least at a B.Sc. level.

CECAM-MOSER offers 2 fellowships to cover the inscription (inclusive of lodging and meals) for PhD students in theoretical chemistry/computational physics interested in molecular spectroscopy applied to reaction mechanism. Please note that these fellowships DO NOT cover travel expenses. The interested candidate should submit a CV, a motivation letter, the abstract of his/her poster to be presented at the School, and a short presentation letter from the supervisor not later than March 5th 2023 to alberto.mezzetti@sorbonne-universite.fr. The result of the selection will be communicated before March 10th, 2023.

Looking forward to seeing you soon!

Alberto Mezzetti, PhD, Chairman

Josefine Schnee, PhD, Vice-Chairman



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