



## CONFERENCE

13-15.03.2023

**ATHENS | NHRF**

Amphitheatre Leonidas Zervas Vas. Constantinou Avenue 48

# inspired RIs Structural Biology

The National RIs on Integrated Structural Biology, Drug Screening Efforts & Drug target functional characterization

**ORGANIZATION:** Inspired-RIs coordinator, Instruct-EL hub / NHRF & Aristotle University of Thessaloniki, jointly with University of Patras.

**AIM:** INSPIRED-RIs- The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts & Drug target functional characterization (MIS 5002550) organize a conference to increase awareness of the services provided to interested key stakeholders.

**TARGET GROUP:** Research scientists from Greek Academic – Research – Public Organizations, National Research Infrastructures, Industries, Companies, SMEs, Clusters in Greece, and South-East Europe.

**REGISTRATION:** Ms Pandora Karakousi, [pkarakousi@eie.gr](mailto:pkarakousi@eie.gr) until **March 10<sup>th</sup>, 2023.**

**ORGANIZATION:** The conference is organized by Inspired-RIs coordinator, Instruct-EL hub/NHRF and Aristotle University of Thessaloniki jointly with University of Patras.

### PLENARY SPEAKERS

**Prof. Sir David Stuart**  
FRS, FMedSci, University of Oxford, Life Science Director, Diamond Light Source, UK

**Prof. Harald Schwalbe**  
Instruct-ERIC Director

**Prof. Dr Arwen Pearson**  
University of Hamburg, CFEL

**Prof. Dr Panagiotis Kastiris**  
ERA Chair holder at NHRF & Jr Prof. Martin Luther University of Halle-Wittenberg

### ORGANIZING COMMITTEE:

INSTRUCT-EL hub / Inspired

Dr E.D. Chrysinas, ICB-NHRF

Dr S.E. Zographos, ICB-NHRF

Dr M. Zervou, ICB-NHRF

Dr S. Pispas, TPCI-NHRF

Dr M. Karayianni, TPCI-NHRF

Em. Prof. E-N. Nikoloussi, AUTH

Prof. A. Sioga, AUTH

Em. Prof. Aik. Kaidoglou, AUTH

Dr V. Lagouri, ICB-NHRF

Ms P. Karakousi, ICB-NHRF

UPAT / Inspired

Prof. G.A. Spyroulias, Dept. of Pharmacy

Prof. S. Taraviras, Medical School

**Supporting team:**

Ms Ioanna Gerogianni, ICB-NHRF

Ms Evgenia Stamati, ICB-NHRF

Mr Paraschos Christodoulou, ICB-NHRF



Inspired-RIs are affiliated with the pan-European Research Infrastructure Consortium on Integrated Structural Biology, an ESFRI Landmark.

## PROGRAMME\*

<b>Day 1</b>	<b>Monday, March 13<sup>th</sup> 2023</b>
<b>09:30 – 10:00</b>	<b>Registration</b>
10:00 – 10:15	<p><b>Welcome</b></p> <p><b>Professor Dimosthenis Sarigiannis</b> Director &amp; President of the NHRF Board</p> <p><b>Dr Alexander Pintzas</b> Director of the Institute of Chemical Biology at NHRF</p>
10:15 – 10:30	<p><b>The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts &amp; Drug target functional characterization</b></p> <p><b>Evangelia D. Chrysina</b> Inspired-RIs coordinator, Research Director, Institute of Chemical Biology, NHRF</p>
10:30 – 10:45	<p><b>Instruct-EL hub – Centre for the Provision and Development of Integrated Structural Biology Research Services</b></p> <p><b>Evangelia D. Chrysina</b> Instruct-EL hub coordinator, Research Director, Institute of Chemical Biology, NHRF</p>
10:45 – 11:00	<p><b>Inspired – University of Patras</b></p> <p><b>Georgios A. Spyroulias</b> UPAT node coordinator, Professor, Department of Pharmacy, University of Patras</p>
11:00 – 11:15	<p><b>Inspired – National Centre for Scientific Research – “Demokritos”</b></p> <p><b>Georgios Nounesis</b> NCSR-“Demokritos” node coordinator, President</p> <p><b>Emmanuel Saridakis</b> NCSR-“Demokritos” node coordinator, Senior Researcher, Institute of NanoScience and Nanotechnology</p>
11:15 – 11:30	<p><b>Inspired –Foundation for Research and Technology – West Greece</b></p> <p><b>Maria Klapa</b> Inspired-FORTH-West Greece, node coordinator, Senior Researcher, Institute of Chemical Engineering Sciences</p>
11:30 – 11:40	<b>Discussion</b>
<b>11:40 – 12:15</b>	<b>Coffee Break</b>

12:15 – 12:30	<p><b>Inspired – National and Kapodistrian University of Athens</b></p> <p><b>Constantinos E. Vorgias</b> Inspired-NKUA, node coordinator, Professor, Department of Biology</p>
12:30 – 12:45	<p><b>Inspired – Hellenic Pasteur Institute</b></p> <p><b>Konstantinos Lazaridis</b> Inspired HPI – node coordinator, Senior Researcher, Department of Immunology</p>
12:45 – 13:00	<p><b>Inspired – National Technical University of Athens (NTUA)</b></p> <p><b>Dimitris Kekos</b> Inspired-NTUA, node coordinator, Emeritus Professor, School of Chemical Engineering</p> <p><b>Evangelos Topakas</b> Inspired-NTUA, node coordinator, Associate Professor, School of Chemical Engineering</p>
13:00 – 13:15	<p><b>Inspired –Foundation for Research and Technology – Epirus</b></p> <p><b>Theologos Michaelidis</b> Inspired-FORTH-BRI, node coordinator, Associate Professor, Biomedical Research Institute</p>
13:15 – 13:30	<p><b>Inspired – University of Ioannina</b></p> <p><b>Anastasia Politou</b> Inspired-Uoi, node coordinator, Associate Professor, Department of Biological Chemistry</p>
13:30 – 13:45	<p><b>Inspired – University of Crete</b></p> <p><b>Michael Kokkinidis</b> Inspired-UoC, node coordinator, Emeritus Professor, Department of Biology</p> <p><b>Georgios Tsiotis</b> Inspired-UoC, node coordinator, Professor, Department of Chemistry</p>
13:45 – 13:55	<p><b>Discussion</b></p>
<b>13:55 - 15:00</b>	<p><b>Lunch Break</b></p>
15:00 – 15:15	<p><b>Inspired-University of Thessaly</b></p> <p><b>Demetres D. Leonidas</b> Inspired-UoTh, node coordinator, Professor, Department of Biochemistry and Biotechnology</p>

15:15 – 15:30	<b>Inspired- Demokritus University of Thrace</b> <b>Aikaterini Katsani,</b> Inspired-DUTH, node coordinator, Assistant Professor, Department of Molecular Biology & Genetics
15:30 – 15:45	<b>Inspired- e-hub “Athena” Research and Innovation Centre</b> <b>Yannis Ioannidis</b> Inspired-e-hub-Athena-RC, node coordinator, Professor, Information Management Systems Institute <b>Theodore Dalamagas</b> Inspired-e-hub-Athena-RC, node coordinator, Research Director, Information Management Systems Institute
15:45 – 16:00	<b>Inspired – Centre for Structural Analysis, Agricultural University of Athens</b> <b>Elias Eliopoulos</b> Inspired-AUA, node coordinator, Professor, Department of Biotechnology <b>Kostas Bethanis</b> Inspired-AUA, node coordinator, Associate Professor, Department of Biotechnology
<b>16:00 – 16:30</b>	<b>Coffee Break</b>
16:30 – 18:00	<b>Poster session</b>

<b>Day 2</b>	<b>Tuesday, March 14<sup>th</sup> 2023</b>
	<b>Plenary lectures and selected examples from nodes /users</b>
10:00 – 10:30	<b>Exploring cellular organization in native cell extracts with cryo-electron microscopy</b> <b>Panagiotis Kastritis</b> ERA Chair holder at NHRF and Jr Professor at The Martin Luther University of Halle-Wittenberg, Germany
10:30 – 11:00	<b>The global perspective of collaborative research in Instruct (Integrated Structural Biology) - Case Study: SARS-CoV-2</b> <b>Harald Schwalbe</b> Professor, Dr., Instruct-ERIC Director
11:00 – 11:30	<b>Time-resolved structural biology - status and future</b> <b>Arwen Pearson</b> Professor, Dr. University of Hamburg, CFEL
<b>11:30 – 12:00</b>	<b>Coffee Break</b>

12:00 – 12:30	<p><b>Integrating structural methods to understand and combat viruses</b></p> <p><b>David Stuart</b> Professor, Sir, FRS, FMedSci, MRC Professor of Structural Biology, Nuffield Department of Medicine, University of Oxford   Life Science Director, Diamond Light Source</p>
12:30 – 12:50	<p><b>Structural studies of carboxypeptidases</b></p> <p><b>Petros Giastas</b> Assistant Professor, Biotechnology Dept., Agricultural University of Athens</p>
12:50 – 13:10	<p><b>Application of biophysical methods for the investigation of protein-based nanostructures study</b></p> <p><b>Aristeidis Papagiannopoulos</b> Senior Researcher, Theoretical and Physical Chemistry Institute, NHRF</p>
13:10 – 13:30	<p><b>OBP-based Reverse Chemical Ecology: Utilizing Inspired Facilities</b></p> <p><b>Eleni Anna Christodoulou</b> PhD student, Institute of Chemical Biology, NHRF</p>
13:30 – 14:00	<p><b>Morphological analysis of embryonic structures and structural proteins using transmission and scanning electron microscopy</b></p> <p><b>Elpida-Niki Emmanouil-Nikoloussi</b> Emeritus Professor, School of Medicine, Aristotle University of Thessaloniki</p>
14:00 – 14:20	<p><b>Analysis of structure-function relationship of apolipoproteins for the understanding of molecular mechanisms of human diseases</b></p> <p><b>Angeliki Chroni</b> Research Director, Institute of Biosciences and Applications, NCSR-“Demokritos”</p>
<b>14:20 – 15:15</b>	<b>Lunch Break</b>
15:15 – 16:40	<b>Meeting: Assembly of Inspired-RIs partners</b>
<b>16:40 – 17:00</b>	<b>Coffee Break</b>
17:00 – 18:00	<b>Meeting: Assembly of Inspired-RIs partners (continue)</b>

<b>Day 3</b>	<b>Wednesday, March 15<sup>th</sup> 2023</b>
	<b>Selected examples from nodes / users and invited lectures</b>
09:30 – 09:40	<p><b>Expression in insect cells</b></p> <p><b>Konstantinos Meliopoulos</b> MSc Department of Molecular Biology and Genetics, DUTH</p>

09:40 – 09:50	<p><b>Evaluation of the binding affinity and selectivity between aptamers and small molecule ligands</b></p> <p><b>George Tsekenis</b> Head of Applied Biophysics and Surface Science Laboratory, Biomedical Research Foundation of the Academy of Athens</p>
09:50 – 10:00	<p>How the metabolic profile of plant leaves may be used as key marker for plant health and improve understanding of structure-function relationships with applications in ecophysiology</p> <p><b>Georgia Tooulakou / Maria Klapa</b> Dr / Head of Metabolic Engineering and Systems Biology Laboratory, FORTH-ICEHT</p>
10:00 – 10:10	<p><b>NMR Structural biology of SARS-CoV-2 nsP3 proteins</b></p> <p><b>Nikolaos Fourkiotis</b> PhD student, Department of Pharmacy, University of Patras</p>
10:10 – 10:20	<p>Development of innovative drugs in amyloidosis"</p> <p><b>Georgia Nasi / Vassiliki Iconomidou</b> Dr/Associate Professor, Section of Cell Biology and Biophysics, Department of Biology, NKUA</p>
10:20 – 10:45	<p><b>Closing remarks</b></p>
<b>10:45 – 11:00</b>	<p><b>Coffee</b></p>

\*The programme might be subjected to small changes



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