

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

**National funding** : € 3,818,820.00

**Thematic Area** : Pharmaceuticals and Health

**Participating Organizations:**

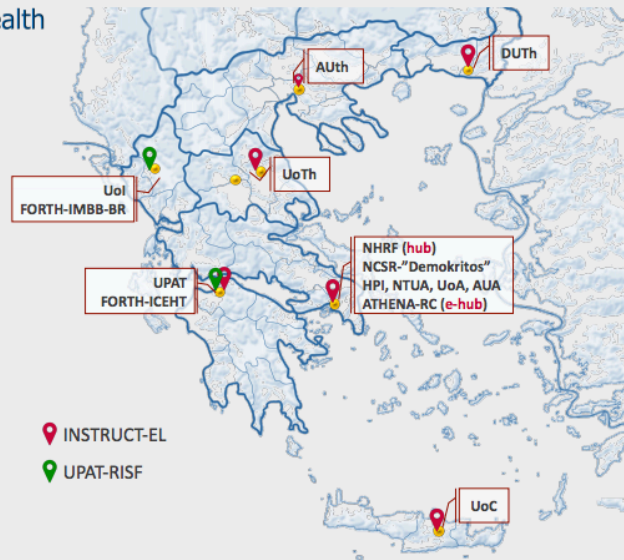
**Research Organizations**

1. National Hellenic Research Foundation (Coordinator, Hub)\*
2. National Centre for Scientific Research – «Demokritos»
3. FORTH – Institute of Chemical Engineering
4. FORTH – Institute of Molecular Biology & Biotechnology
5. Hellenic Pasteur Institute
6. «Athena» Research Centre (e-Hub)

**Academic Organizations**

7. University of Patras
8. National & Kapodistrian University of Athens
9. Agricultural University of Athens
10. University of Ioannina
11. University of Thessaly
12. University of Crete
13. Demokritos University of Thrace
14. National Technical University of Athens

\* Aristotle University of Thessaloniki, through NHRF



**INSPIRED is a national research infrastructure** unique in the field of Structural Biology that combines studies on bioactive (macro)molecules interactions and biomarkers identification. It offers services mainly in the field of biology, diagnostics and pharmacology, addressing the needs of the health sector with significant impact on agro-food and concerns a large number of organizations (potential users and collaborators). It bridges basic research with the Industry and SMEs supporting innovative actions by either providing services or in the frame of funded programmes.

**The DUTH Entity (INSPIRED Sub-project 12)** will design and develop the provision of services for **(a) the analysis of biomolecular interactions** using as main technology the technology SPR (Surface Plasmon Resonance) and secondly with TRF (time resolved fluorescence) and DSF (Differential Scanning Fluorimetry) and **(b) the production of recombinant proteins in eukaryotic cells (insect or mammalian)** in the network.

**Specifications**

- Surface Plasmon Resonance Biosensor (SPR) Proteon XPR36
- Varioskan LUX multimode microplate reader (Absorbance, Fluorescence, Luminescence, TRF, TR-FRET)
- Cell culture equipment (insect cells culture, baculovirus expression system)

**INFO**

**URL** : <http://www.inspired-ris.gr>

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