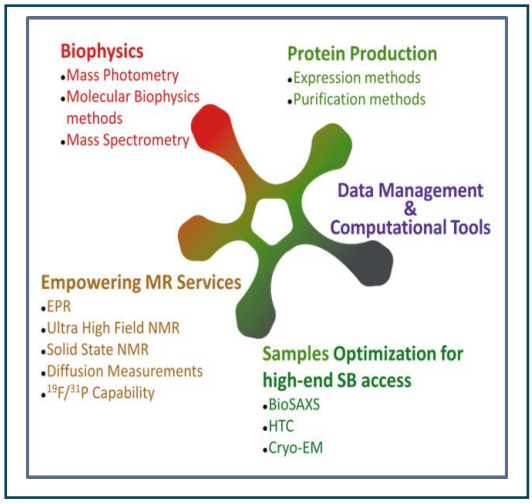
**Project title:** Potentiating the Italian Capacity for Structural Biology Services in Instruct-ERIC

**Acronym:** ITACA.SB




**Partners:**


- IBPM-CNR: Andrea Ilari
- UNIFICERM: Lucia Banci
- IC-BA CNR: Cinzia Giannini
- IC-CE CNR : Michele Saviano
- IC-CT CNR: Francesco Attanasio
- ICB-CT CNR: Nicola D'Antona
- IPCB-CT CNR: Domenico Garozzo

e-mail IBPM-CNR PI: andrea.ilari@cnr.it


**Description**:

The ITACA.SB project is organized in 8 Work Packages. The first 4 WPs are focused on the services implementation: WP1 will augment the capabilities of the NMR services; WP2 is dedicated at expanding the capacity in the services for protein production; WP3 is dedicated to biophysical characterization of the samples; WP4 foresees the implementation of platforms for BioSAXS, cryo-EM and protein crystallography; WP5 will reinforce processing and data analysis; WP6 will organize and coordinate specific training program addressing early stage researchers both inside and outside facilities; WP7 addresses several actions aimed at reducing the environmental impact of research activities; WP8 defines the governance of the project.

**Aims**:

The project aims at: *i* potentiating the Italian protein production service capacity; *ii* potentiating data management, data processing and computational tools; *iii* improving the ability of Italian SB users to test and validate their samples in Italy before accessing Instruct-ERIC centers for X-ray and cryo-EM measurements; *iv* organizing training activities aiming at widening the exploitation of structural biology technologies from the Italian user community.

**Expected results**:

ITACA.SB will impact many areas of interdisciplinary research in Life Sciences. First the project supports Instruct-ERIC by reinforcing and expanding a series of services to respond to the specific needs of the national scientific community. Moreover, it will reinforce the Italian Structural Biology field, by increasing its capacity of impact at both national and international level and by educating new generations of scientists, thus making available unique expertise and competences.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