



Thursday 5 November
EU-India PARTNERING EVENT

*Theme: Life sciences, biotechnology and
biochemistry for sustainable
non-food products and processes*

MARIA I. KLAPA
**FOUNDATION FOR RESEARCH &
TECHNOLOGY-HELLAS / INSTITUTE OF
CHEMICAL ENGINEERING AND HIGH-
TEMPERATURE CHEMICAL PROCESSES**
PATRAS, GR-26504, GREECE

A joint event organized by



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European Biotechnological Technology Centre

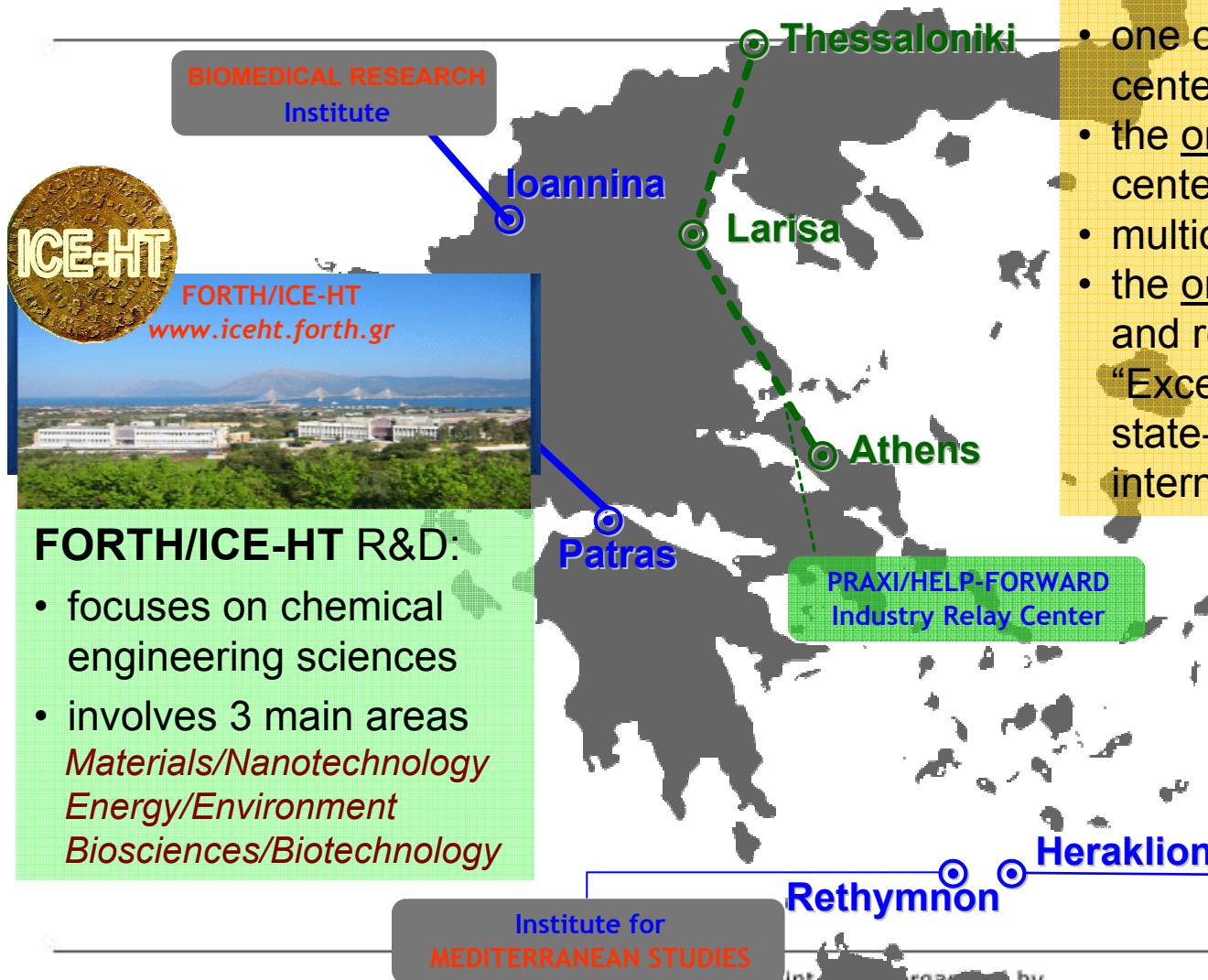


Biocircle



Research Center: FORTH/ICE-HT

EU-India S&T
Cooperation Days
4-6 November 2009 New Delhi
www.euindiacoop.org



FORTH is:

- one of the largest research centers in Greece
- the only multi-county research center in Greece
- multidisciplinary
- the only with all physical sciences and research institutes receiving “Excellent” grade during last state-sponsored evaluation with international committees (2005)

FORTH/ICE-HT R&D:

- focuses on chemical engineering sciences
- involves 3 main areas
Materials/Nanotechnology
Energy/Environment
Biosciences/Biotechnology

Institute of
APPLIED AND COMPUTATIONAL MATHEMATICS

Institute of
MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Institute of
ELECTRONIC STRUCTURE AND LASER

Institute of
COMPUTER SCIENCE

CENTRAL ADMINISTRATION



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PROJECT IDEA



Life sciences, Life sciences, Life sciences, Life sciences

Metabolomics:

- involves the measurement of the concentration profile of free metabolites
- provides a metabolic fingerprint of a biological system
- alone or in combination with other omics enables the identification of *early diagnostic patterns of disease* or *enhanced monitoring of a biological process*
- is less costly than transcriptomics or proteomics, does not require cumbersome user training, does not require unique platforms for each biological system and targets the metabolism, the closest to the phenotype cellular level
- has great potential for applications in *molecular diagnostics and drug development, cell culture engineering, agro-biotechnology*
- is still at its standardization phase → need for technology development
→ need for bioinformatics/metabolic network analysis expertise

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PARTNER SOUGHT



Life sciences, Life sciences, Life sciences, Life sciences

- Pharma/Cell Culture Engineering industries
 - Molecular Diagnostics/Systems Biology companies
 - Agrobiotechnology
 - Biocomputing/BioMolecular Network Analysis (Protein Interactome and Metabolic Network)
- ✓ **NEOGEN CHEMICALS in Mumbai** → planning furthering technology development strategies for metabolic network analysis

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CONTACT DETAILS



Life sciences, Life sciences, Life sciences, Life sciences

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