

DYNANO

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PITN-GA-2011-289033

DYNANO

Dynamic Interactive
Nanosystems

Marie Curie Initial Training Network





Academia & industry
hand in hand to give
young researchers a physical,
chemical, biological
& medical background.

- KNOWLEDGE
- EDUCATION
- INNOVATION

WHAT IS DYNANO?

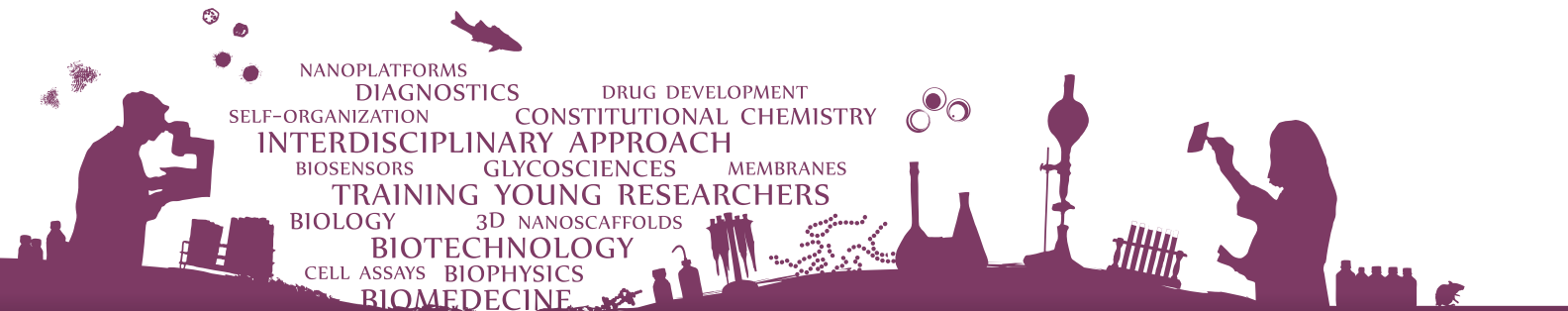
A TRAINING NETWORK

DYNANO is an Initial Training Network, funded by the European Commission. It trains a new generation of scientists in the interdisciplinary field of dynamic interactive nanosystems for biomedical & biotechnological applications. DYNANO partners come from both academia & industry and offer interdisciplinary training in physics, chemistry, biology & medicine to their young researchers.

SCIENTIFIC OBJECTIVE

DYNANO's scientific objective is to explore multivalent molecular biorecognition by using functional nanoplatforms. DYNANO researchers design, produce, optimize functional systems such as membranes, biosensors, microarrays & nanodevices for biomedical, biotechnological & industrial applications.

DYNANO recruits **12 PhD** students
and **3 post-doc** researchers to achieve
its scientific objective.



SCIENTIFIC CONTEXT

FROM DYNAMIC CHEMISTRY...

Constitutional dynamic chemistry allows for the simple generation of large chemical systems from small sets of building blocks based on reversible interconversion between the system constituents. Building elements are spontaneously assembled to virtually encompass all possible combinations using dynamic covalent or noncovalent bonds between the species, the way it happens in living cells.

... TO DYNAMIC INTERACTIVE NANOSYSTEMS

Constitutional dynamic chemistry is becoming increasingly important in nanotechnology: it gives rise to complex dynamic interactive nanosystems. These systems undergo a continual evolution in constitution, which produces structural diversity at a nanoscale level.



EUROPEAN PARTNERS

CNRS FRANCE

Institut Européen des Membranes - IEM
Institut Charles Sadron - ICS



UDS FRANCE

Institut de Science et d'Ingénierie
Supramoléculaires – ISIS



KTH SWEDEN

Institutionen for kemi



FUNDP BELGIUM

Laboratoire de Chimie Bioorganique – CBO



CSIC SPAIN

Instituto de Química-Física "Rocasolano" – IQFR
Centro de Investigaciones Biológicas – CIB
Instituto de Investigaciones Biomédicas "Alberto Sols"- IIBM



UNIFI ITALY

Laboratorio di Chimica Bioinorganica



SE HUNGARY

Genetikai, Sejt- és Immunbiológiai Intézet – GSI



International Centre of Biodynamics – ICB ROMANIA



Attana AB SWEDEN



GVS S.p.A ITALY



SOLVAY BELGIUM



European Membrane House – EMH BELGIUM



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IN A NUTSHELL

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