

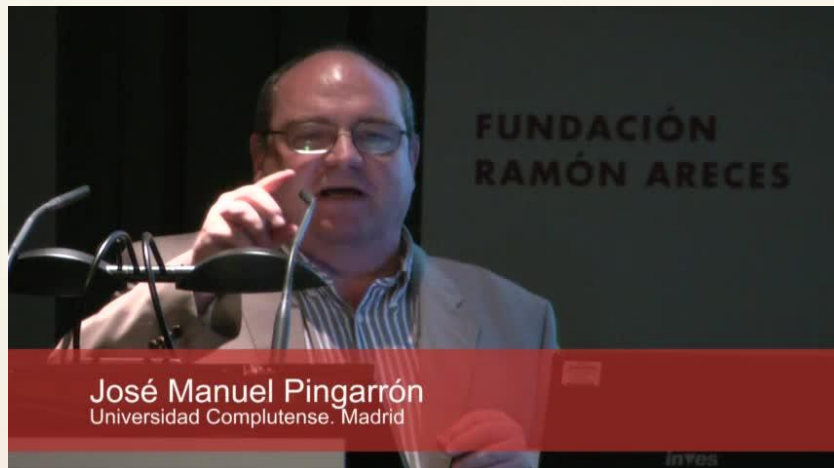


ORION HIGH TECHNOLOGIES S.L.

A Nanotechnology Company

www.orion-hitech.com
orion@orion-hitech.com

All nanomaterials appearing in the pictures have been developed by our team



Prof. José M. Pingarrón

- Full Professor of Chemistry at the Complutense University of Madrid since 1994.
- President of the Spanish Society of Analytical Chemistry (1998 – 2001).
- Vice-President of the Spanish Royal Society of Chemistry
- Spanish representative in the Division of Analytical Chemistry of the European Association for Chemical and Molecular Sciences.
- Member of the Analytical Chemistry Division Committee of IUPAC.
- Associate Editor of Electroanalysis journal
- Awarded with the Faculty of Chemistry Medal, the Complutense University of Madrid Medal and the Research Award on Analytical Chemistry of the Spanish Royal Society of Chemistry.



Belkis Chico
B.Sc., Ph.D.



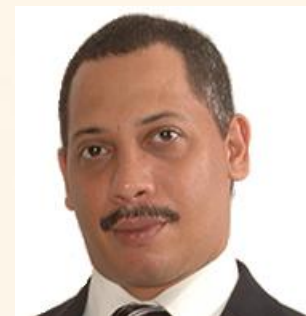
Carlos Marchante
B.Sc., M.Sc.



José M. Pingarrón
B.Sc., Ph.D.



Eddy Sotelo
B.Sc., Ph.D.



Reynaldo Villalonga
B.Sc., Ph.D.

Nanomaterials

Sensor & Biosensors

Organic Synthesis

Drug Delivery

Polymer Chemistry

Analytical Chemistry

Enzyme Technology

Medicinal Chemistry

+ 450 publications in top international journals

12 Patents

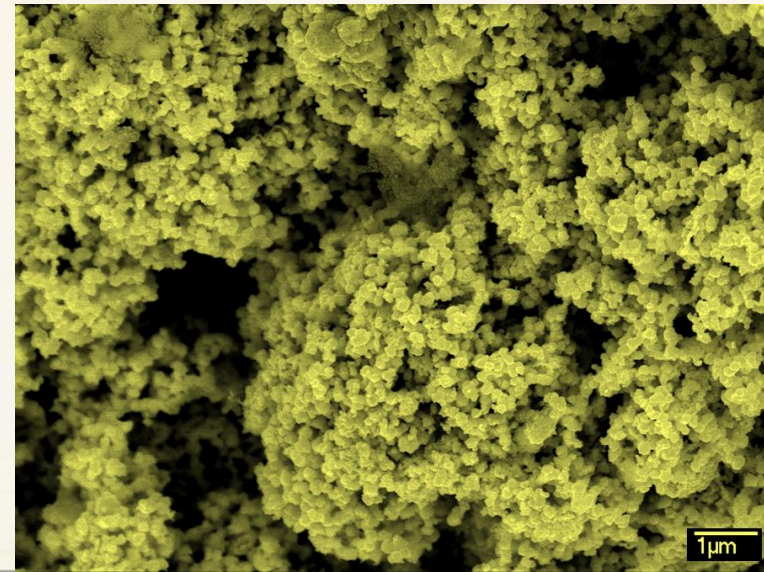
+ 50 International, National & Regional Projects Managed

ORION HIGH TECHNOLOGIES S.L.

A research & development company headquartered in Madrid

Orion Hitech develops state-of-the-art products and technologies that are designed to solve real problems in human and veterinary medicine, agriculture, industry and environmental protection

Gold Nanoparticles-Based Polymer Network

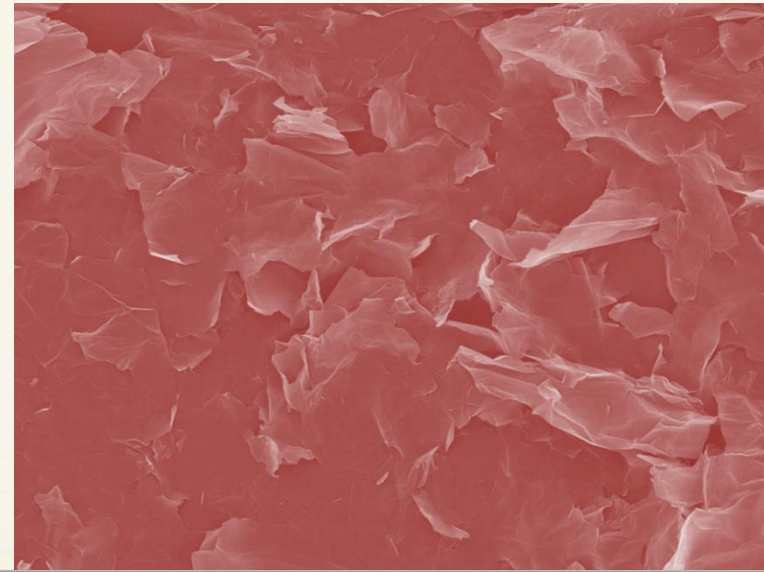


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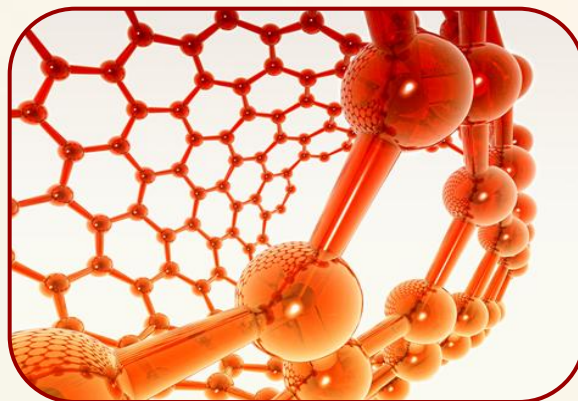
At Orion HighTech we believe science and technology empower people and promote sustainable economic development.

Our mission is to provide new products, new solutions and new insight to our customers in the fields of analytical sensors, medicinal chemistry, nanomaterials and enzyme technology.

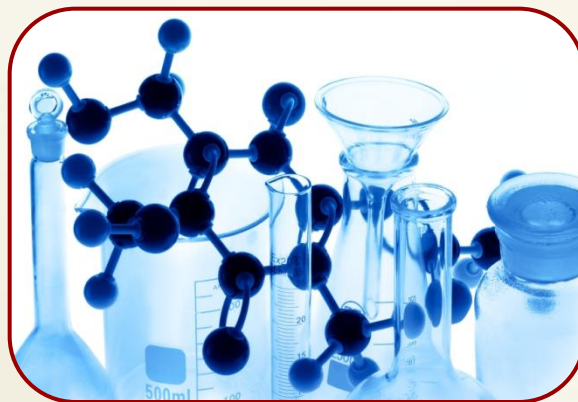
Graphene oxide



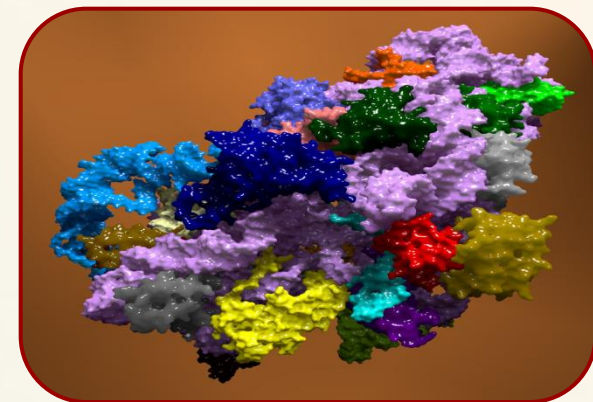
NANOMATERIALS



Sensors & Biosensors

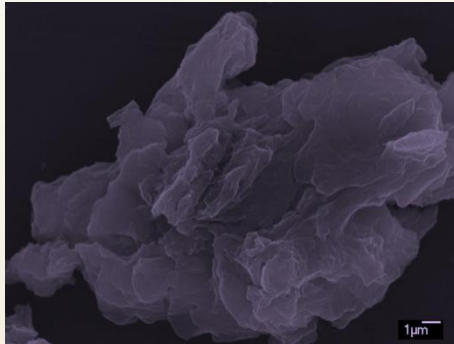


Drug Discovery & Delivery

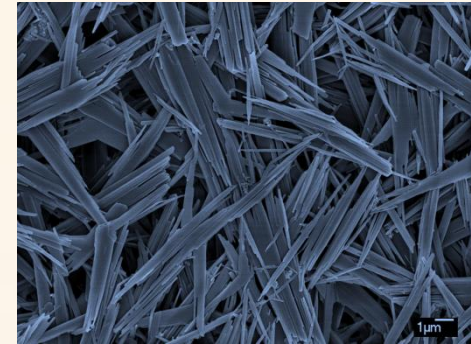


Enzyme Technology

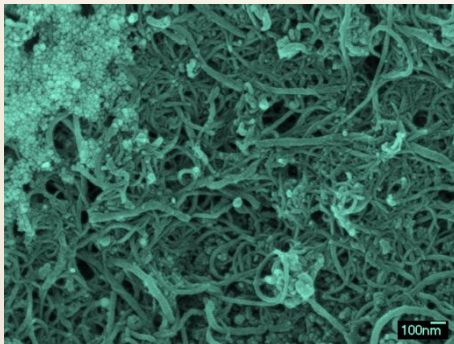
Nanomaterials Synthesis, Functionalization & Hybridization



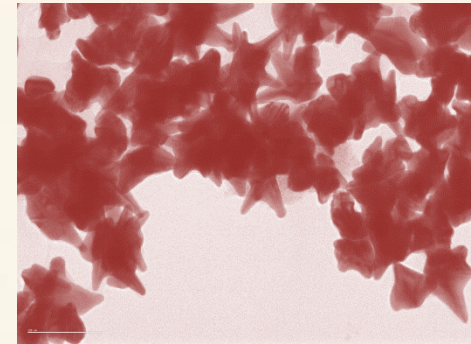
Graphene & Graphene Derivatives



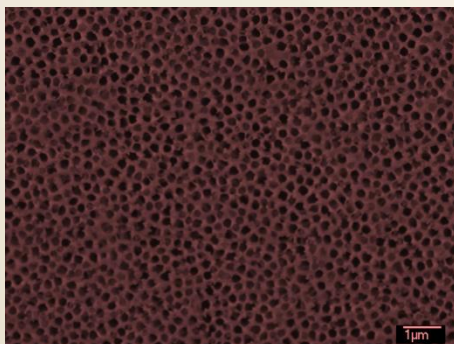
Nanostructured Coordination Polymers



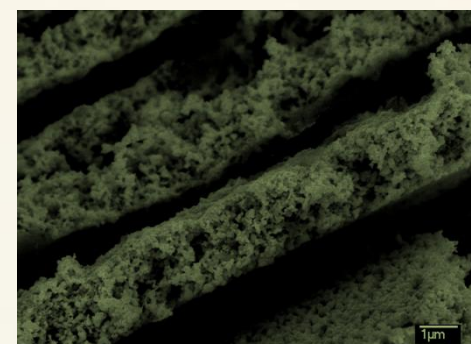
Carbon Nanotubes-Based Hybrid Materials



Anisotropic Metal Nanoparticles

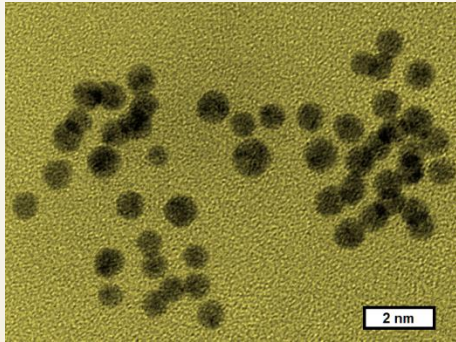


Micro & Nanoporous Thin Films

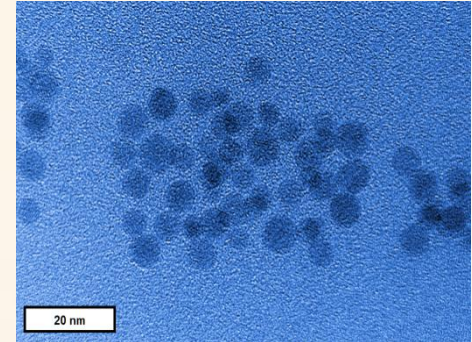


Metal Nanoparticles-Based Thin Films

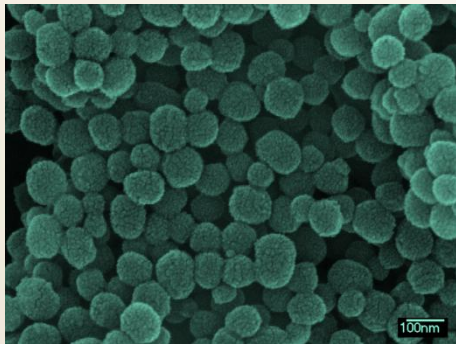
Nanomaterials Synthesis, Functionalization & Hybridization



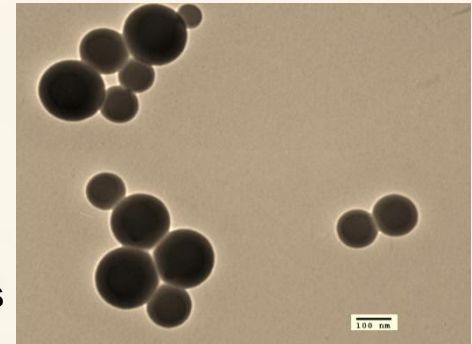
Metal Nanoclusters
(less than 1 nm)



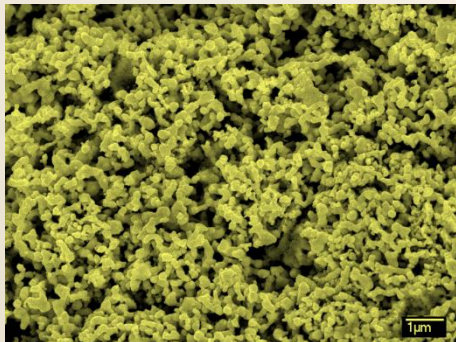
**Superparamagnetic
Nanospheres**



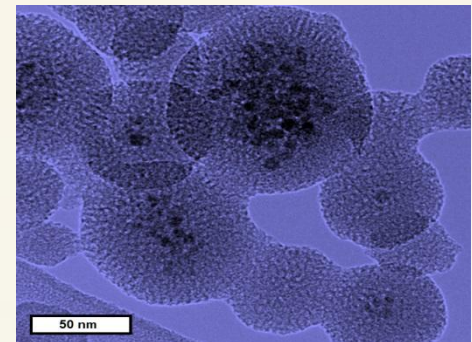
Mesoporous Nanoparticles



**Polymer Coated
Magnetic Nanoparticles**



**Metal Nanoparticles-Based
Porous Materials**



**Core-Shell Mesoporous
Magnetic Nanoparticles**

Nanomaterials Synthesis, Functionalization & Hybridization

All this nanomaterials can be provided with selected functionalities

Chemical groups: $-NH_2$, $-COOH$, $-SH$, $-N_3$, biotin, etc.

Polymers: Mono & bi-functional PEGs, end-group activated dextrans, etc.

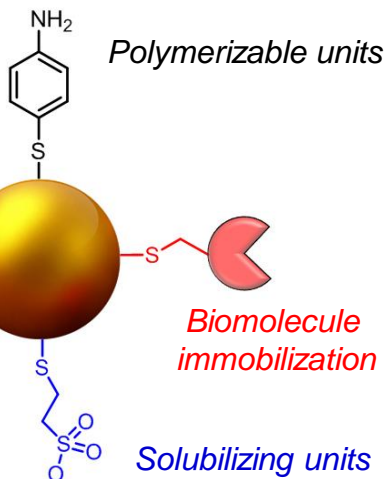
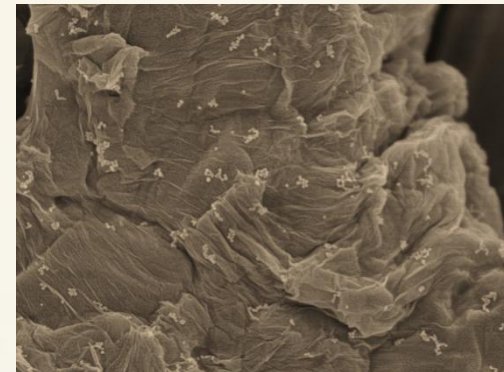
Proteins: Streptavidin, enzymes, antibodies, lectins, etc.

Sugars: Cyclodextrins, glucose, galactose, etc.

Nucleic Acids: DNA & RNA.

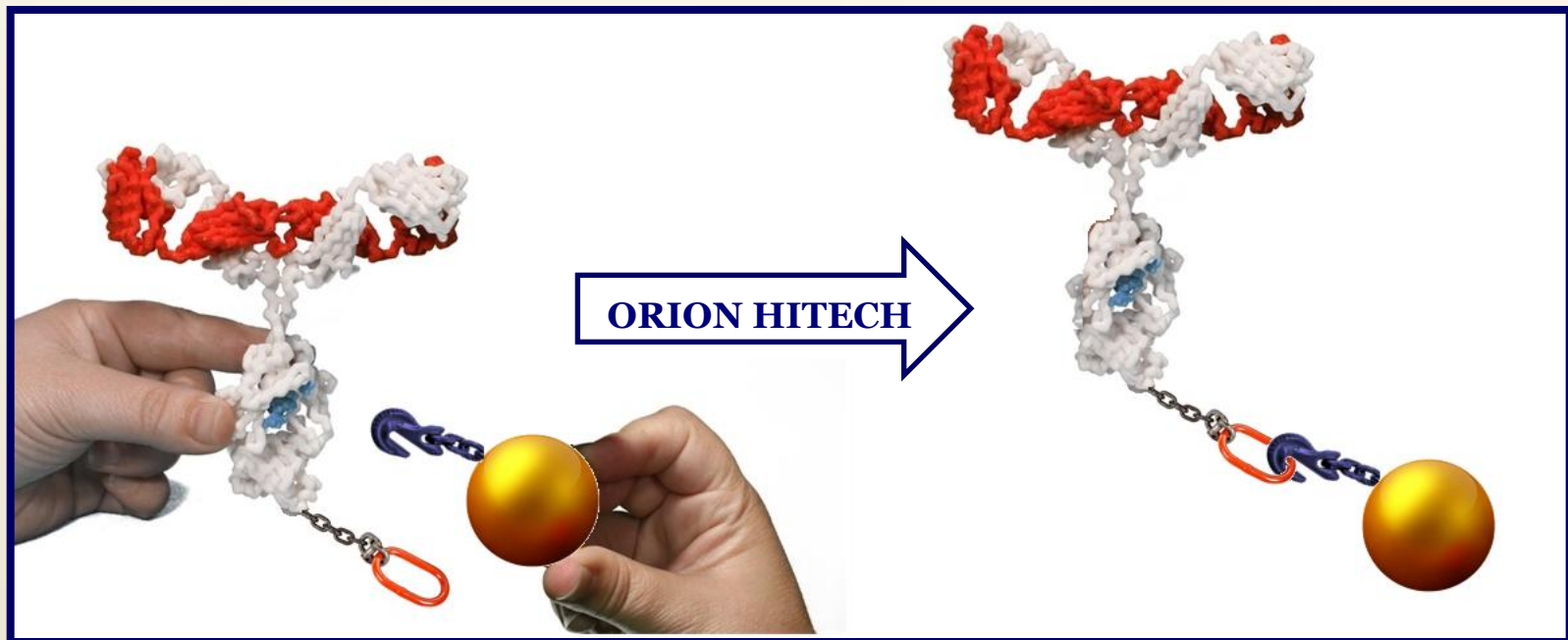
Other Nanomaterials

Graphene-Au Nanoparticles Hybrid

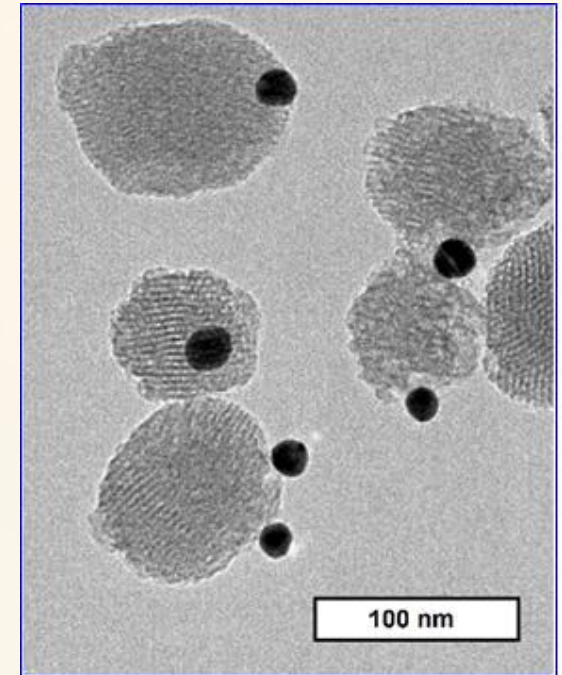


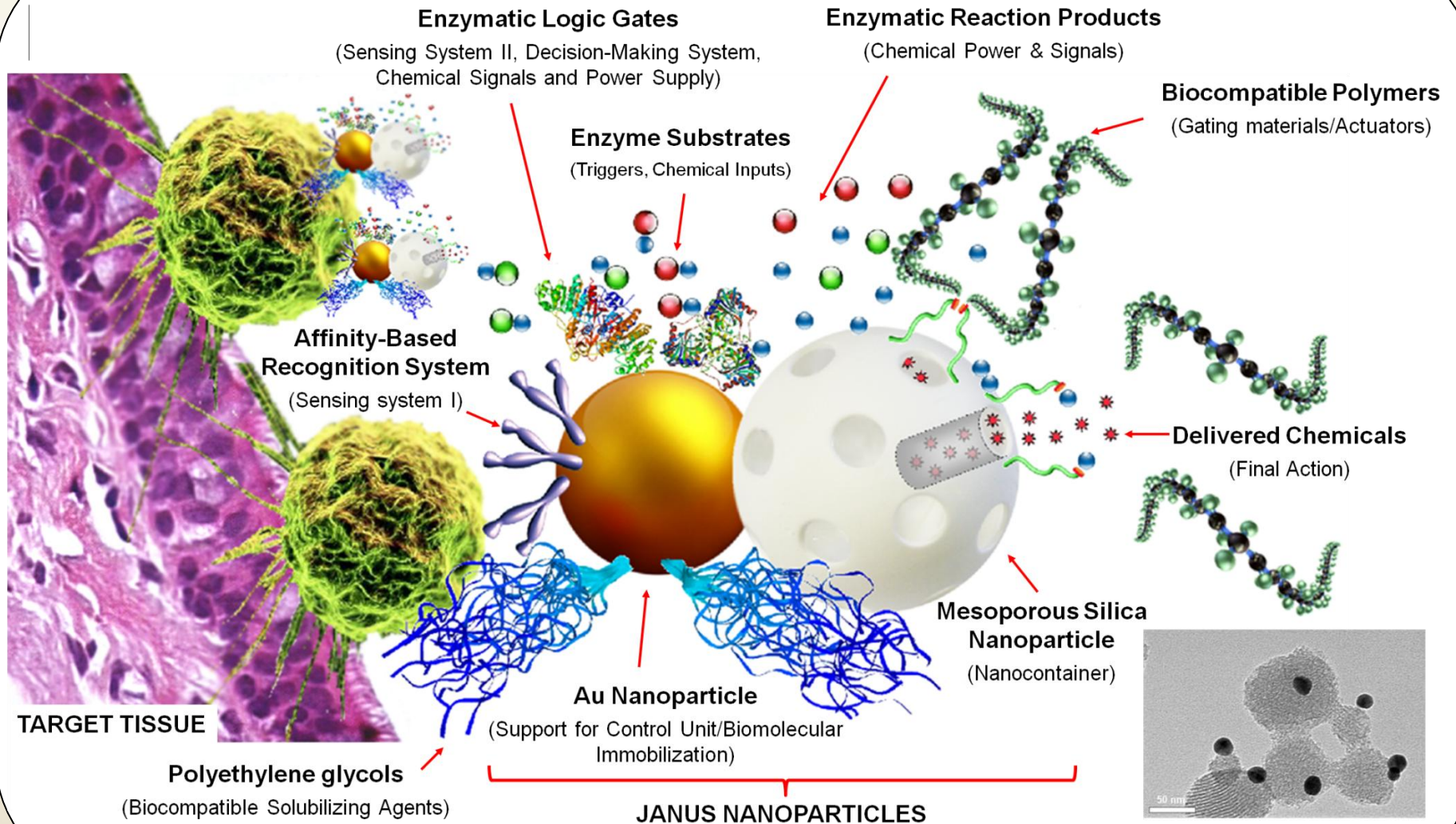
Nanomaterials Synthesis, Functionalization & Hybridization

We have developed original methods for selective, fast and one-pot labeling of biomolecules with nanoparticles, nanoclusters and quantum dots

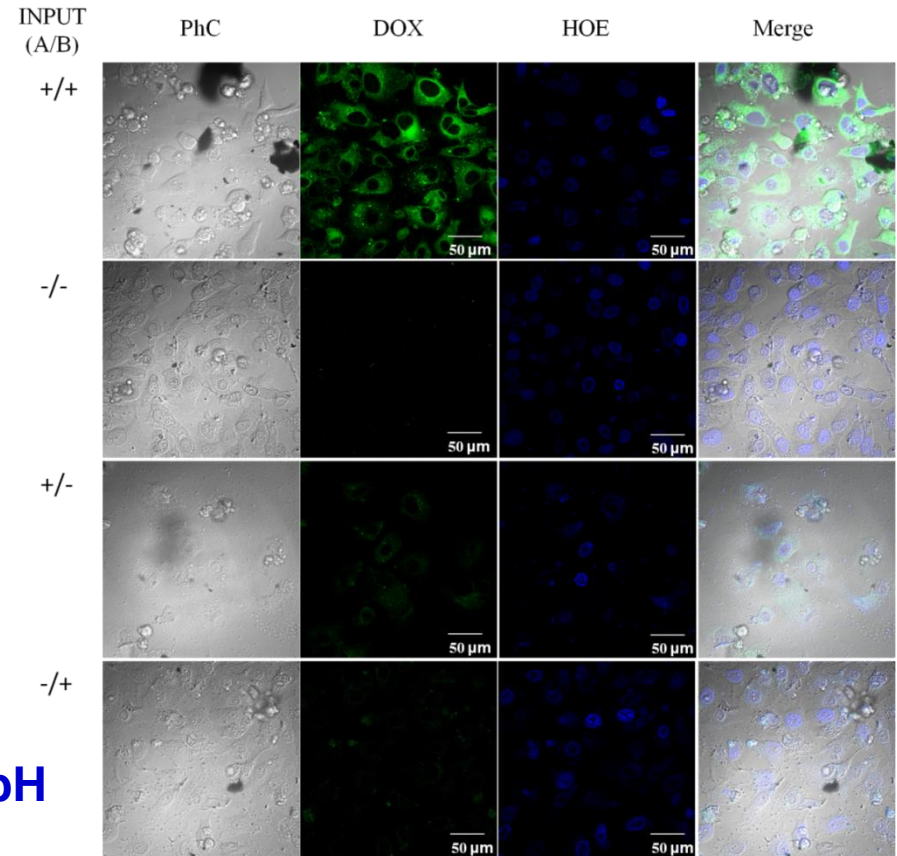
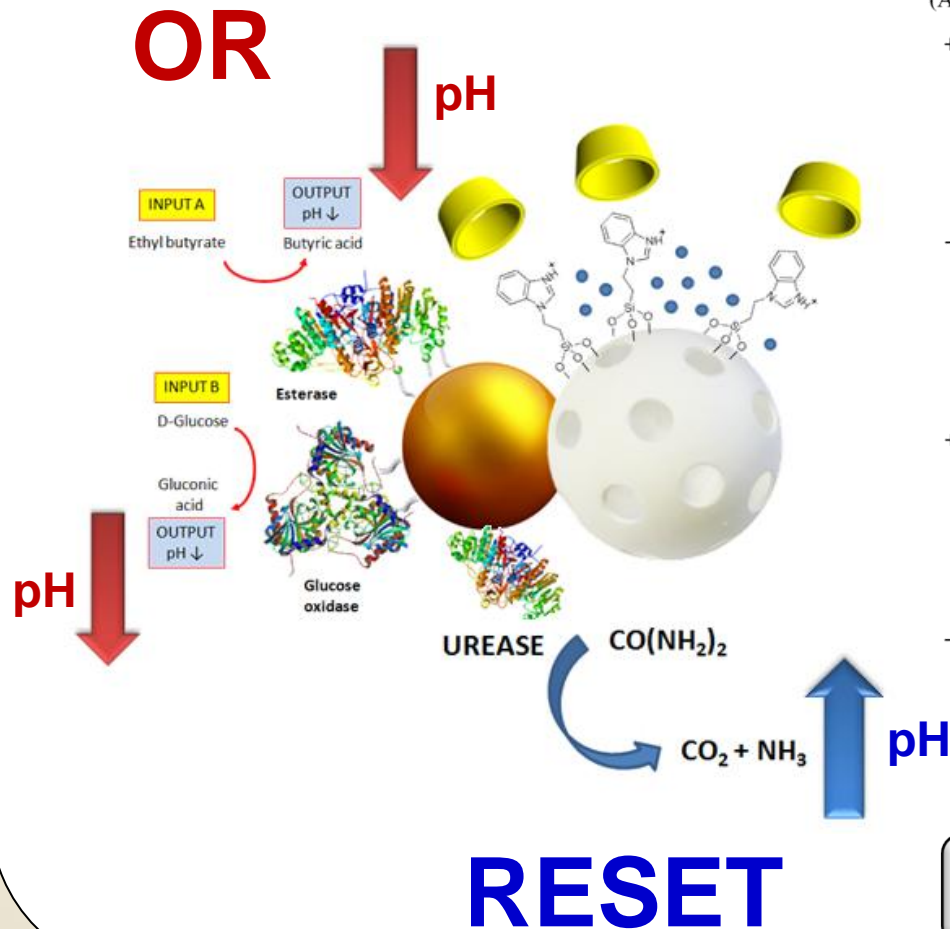


BIO-NANOROBOTS





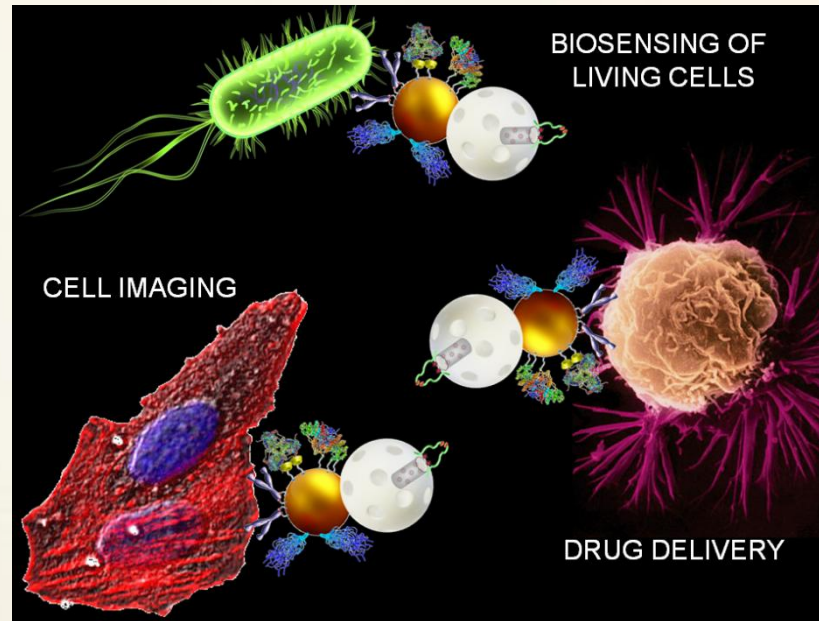
Bionanorobot Controlled by an Enzymatic Microchip



Bionanorobots Toward HeLa Cancer Cells

WE ARE CONVINCED OUR NANOMATERIALS CAN CHANGE THIS WORLD

INPUT



AND CAN EMPOWER OUR INVESTORS





Thanks...!!

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