



Comprehensive biotechnological consultancy

BIOTECHNOLOGICAL SOLUTIONS-I2SysBio

offers thanks to its multidisciplinary composition a consultancy service that provide biotechnological solutions to the companies and groups that require our help or technical opinion to deal with projects, processes or any other R&D activity in the sector of biotechnology, especially in the fields of industrial and environmental biotechnology.

INNOVATIVE APPROACHES-I2SysBio offers to the companies the possibility of brainstorming in order to address biotechnological solutions that are still in the first phases of research or need innovative or disruptive approaches.

EXPERIENCE-I2SYSBIO researchers have extensive experience in managing and developing projects and R&D initiatives allowing us to give comprehensive advice about how to address the development of a product or biotechnological service.

Where to find us

I2SYSBIO (CSIC-UV)-POSTAL ADDRESS

The Institute for Integrative Systems Biology is located at the Parc Científic C/Catèdrático José Beltrán, 2

PARCEL DELIVERY

C/Catèdrático Agustín Escardino,9 46980 Paterna

HOW TO REACH I2SYSBIO

BY HIGHWAY: From Valencia City centre (15 min) and From Manises Airport (10-15 min): A taxi outside rush hours it can take 10-15 minutes and the fare can be around 15 euros. You can also take the subway.

BY PUBLIC TRANSPORT: Tranvia: Line 4, TVV and Santa Gemma-Parc Científic UV stops. Bus: Line 63, Vicent Andrés Estellés stop (weekdays only).

Contact us

Tel. (+34) 963544810 E

E-mail iu.i2sysbio@uv.es

Web <http://i2sysbio.uv.es/>

SOCIAL NETWORK

Twitter: <https://twitter.com/i2sysbio>

Facebook: [https:// www.facebook.com/ i2sysbio/](https://www.facebook.com/i2sysbio/)

Instagram: [https:// www.instagram.com/](https://www.instagram.com/)



Institute for Integrative Systems Biology

I2SysBio (CSIC-UV)



COMPUTATIONAL BIOLOGY AND OMICS TECHNOLOGIES

- Interpret omics data and its application
- Processing, analysis and quality of omics data.
- Management and development of bioinformatics applications.
- Big data and artificial intelligence.
- Maintenance of large-scale data bases.

SYSTEMS BIOLOGY. SYNTHETIC BIOLOGY. METABOLIC ENGINEERING OF SYSTEMS

- Develop genomic scale metabolic models with applications in biotechnology and synthetic biology.

We offer R&D support
**Technological
offer portfolio**



VIROLOGY APPLIED TO HUMANS

- Antiviral testing for human RNA virus under BSL2 conditions, including mechanism of action and therapeutic window determination.
- Targeted evolution of viruses.
- Detection of human viruses: metagenomic analysis of clinical or environmental samples.
- Viral quantification and morphological analysis in human samples: Quantitative RT-PCR, electron microscopy and real time fluorescence microscopy.
- Cultivation and purification of viruses.
- Research and characterization of specific pathogen bacteria.
- Systems Biology. Synthetic Biology. Metabolic Engineering of systems
- Develop genomic scale metabolic models with applications in biotechnology and synthetic biology.

For more information about our technological services
contact our innovation agent Carla Rubio: carla.rubio@csic.es



PLANT CULTIVATION. STUDY OF PLANT DISEASES

- Identification of the genes involved in resistance of biotic and abiotic stresses.
- Identification of new viral pathogens.
- Development of mutants of interest and its phenotyping.
- Cultivation of plants in vitro in controlled climate chambers, including P2 containment conditions to study plant pathogens.

R&D Services and Facilities

I2SysBio has some facilities that are available for the development of R&D projects in public and private entities.

**IT UNIT FOR THE PROCESSING AND STORAGE
OF DATA (CPD)** Big data analysis

CLIMATIC CHAMBERS 9 climatic chambers with
temperature, humidity and illumination control.

**VIROLOGY AND BACTERIOLOGICAL
LABORATORY OF BIOLOGICAL
CONTAINMENT NCB2 (LEVEL 2)
OPTICAL EQUIPMENT**