BIOCentre – the first Croatian biosciences incubation centre for technology commercialization and contract research services

Marija Lovrić, PhD
Chief Executive Officer & Chief Science and Technology Officer

03/02/2022
Marija Lovrić, PhD

- Date and place of birth: 26th Sep 1978, Zagreb
- Education:
  - University of Zagreb, Faculty of Natural Science
    2002 - MSc in Chemistry, 2007 - PhD in Chemistry
  - University of Zagreb, Faculty of Pharmacy and Biochemistry
    2017 - Scientific Associate, Biomedicine and Health
  - Cotrugli Business School, Zagreb
    2019-2021, Executive MBA
- Current work position:
  - BICRO BIOCentre, Ltd.
    Chief Executive Officer &
    Chief Science and Technology Officer
University of Zagreb, Faculty of Natural Science (1997-2002)
Thesis: “Preparation and spectroscopic characterisation of new guanidine derivatives” was made at the Ruđer Bošković Institute in agreement with Department of Organic Chemistry Faculty of Natural Science.

University of Zagreb, Faculty of Natural Sciences (2003-2007)
Thesis: ”Synthesis and Biological Evaluation of Novel Biaryl Compounds” was made in Laboratory of Organic Chemistry in BELUPO Pharmaceuticals & Cosmetics Inc. and Laboratory of Pharmacology at University of Osijek, Faculty of Medicine.

Informal education
Assistant, Internal and external secondments, case studies, meetings and conferences, radio host, review and project evaluation, NGO ...
Work experience

BELUPO
R&D, Regulatory Affairs

GENERA
Regulatory Affairs

APO d.o.o.
Environmental protection

BIOCentre
CEO & CSTO

Galañapos
R&D

gsk

EU FP7 project

Regulatory Affairs
Incubation centre for biosciences
Zagreb, Croatia

Opened in September 2015.
Apple Park

Corporate headquarters of Apple Inc.
California, US

Opened in April 2017.
5 operational programs

1 BIOFacility

2 BIOIncubation
Program provides laboratories and office space for rent to start-ups and existing businesses. 1st floor of the building. 20 labs, 12 offices, surface 1572,42 m².

Tenants

- Sanagen pharm d.o.o.
- Glucodent d.o.o.
- Creaticon d.o.o.
- Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet
- Sveučilište u Zagrebu, Edukacijsko-rehabilitacijski fakultet
- Genera istraživanja d.o.o.
- Genos d.o.o.
- Genos Glycoscience d.o.o.
- Fidelta d.o.o.
Compatibility of the Programmes

BIOFacility INFRASTRUCTURE

BIOIncubation INCUBATION SUPPORT

BUSINESS SECTOR

START - UPs

SPIN - OFFs

SMEs

SCIENTIFIC COMMUNITY

START - UPs

SPIN - OFFs

SMEs
3 BIOEducation

For groups and individuals.

Workshops:
• Introduction to bioprocessing
• Introduction to GC and LC
• Development and validation of analytical methods in LC and GC
• qPCR analysis
• ...

https://www.biocentre.hr/en/bioeducation/
5 operational programs

3 BIOEducation

Technical workshops analysis

- 2016: 2 workshops
- 2017: 4 workshops
- 2018: 4 workshops
- 2019: 8 workshops
- 2020: 8 workshops
- 2021: 8 workshops
5 operational programs

4
BIOTransfer

Microbiology

Downstream

Bioanalytics
(chemistry & proteomics)

Cell biology

GC

Wet lab,
washing & sterilization

2nd floor
5 operational programs

4 BIOTransfer

Microbiology

- Cloning and Mutagenesis
- Upstream Processing: Biomass and Protein Production
- Process Development
- Homogenisation: Product Extraction
4 BIOTransfer

Downstream processing

PROCESSING OF COMPLEX MIXTURES

FROM A LABORATORY TO A PILOT SCALE

DIAFILTRATION AND CONCENTRATING
5 operational programs

4
BIOTransfer
Bioanalytic chemistry

NON-TARGETED AND TARGETED ANALYSIS

DEVELOPMENT, TRANSFER AND VALIDATION OF ANALYTICAL METHODS

METABOLITES RESEARCH
5 operational programs

4
BIOTransfer
Bioanalitics proteomics

PEPTIDE MAPPING
PROTEIN SEQUENCING
MW ANALYSIS

LIQUID CHROMATOGRAPHY PATTERNS

NON-TARGETED “SHOTGUN” AND TARGETED PROTEOMICS
5 operational programs

4

BIOTransfer

Cell biology

CELL CULTURE CULTIVATION AND LABORATORY SCALE ASSAYS
FLOW CYTOMETRY
CELL CULTURE CULTIVATION ON A SEMI-INDUSTRIAL SCALE
Biologics development

- Upstream processing
- Downstream processing
- QC and characterisation
- Functional assays
BIOCentre’s clients in 2021

- 38% New clients in 2021
- 62% Clients we worked with in 2021, but also in previous years

- Pharmaceutical industry: 34%
- Food industry: 24%
- R&D Biotech: 21%
- Universities and Institutes: 14%
- Others: 10%

- Clients we worked with in 2021, but also in previous years
- New clients in 2021
5 operational programs

5 BIONetwork
Thank you!

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