

Centre of Excellence for Biosensors, Instrumentation and Process Control (CO BIK)

Address:

COBIK
Tovarniska ulica 26
5270-Ajdovscina, Slovenia
www.cobik.si

Contact:

dr. Matjaz Peterka
matjaz.peterka@cobik.si
Tel: +386 5 8500890

Profile and background:

COBIK is a private research institution employing more than 80 highly qualified researchers working in laboratories in the fields of control systems, instrumentation, new materials and biotechnology.

Biopharmaceutical production technologies: CeBI is offering a consulting and process development services to customers in biotech and biopharmaceutical industry:

- Upstream and downstream process development for recombinant proteins, live attenuated viral vaccines, inactivated viral vaccines and viral vectors.
- Downstream process development for natural proteins, monoclonal antibodies and small molecules

CeBI is organizing an international hands-on training program marketed under the name "BioDownstream Technologies Course-BTC". In October 2013 CeBI in cooperation with Vellore Institute of Technology organized first such event in Vellore, Tamil Nadu, India.

Aptamer and SELEX technology: CeBI has an expertise in engineering aptamers, robust synthetic biomimetic ligands, selective for targets of interest, including protein, virus, and cell targets.

Sensors system for biotech and life science application: CeBI is developing sensors for analysis of nucleic acids, virus and virus like particles (VLP). Sensor is applicable in detection of nucleic acids in environment or production processes and in virus and VLP production processes (vaccines, viral vectors) where quick, accurate, and reliable in-process methods are needed.

Antimicrobial research: CeBI is developing antibacterial compounds and tools, mainly bacteriophage based compounds and strategies against important pathogen bacteria belonging to

Staphylococcus, Campylobacter, Salmonella, and enterohaemorrhagic Escherichia coli.

References and presence in India

COBIK has established worldwide research collaboration with large numbers of internationally recognized research and scientific institutions and companies. Existing collaboration with Vellore Institute of Technology,, Vellore, Tamil Nadu.

Partnership sought

COBIK is seeking:

- Partnership for joint development projects on indicated areas
- Partnership and facility for BioDownstream Technology Course in India
- Industrial partners needing R&D services

Presenter:

Dr. Matjaz Peterka received a PhD in Microbiology from University of Ljubljana. After completion of PhD he joined BIA Separations and has been part of the team for ten years working as a researcher, project manager, department head, and consultant.

Matjaz was involved in development and marketing of various chromatography products and his responsibilities included the development of downstream processes for recombinant proteins, DNA and virus vaccines.

Presently, Matjaz is a head of Centre for biotechnology at Centre of excellence for Biosensors, Instrumentation and Process Control. As a result of efforts at COBIK Matjaz and coworkers established a spin-off company LBABio LL.C focusing on bioengineering solution of biotechnology industry.