

bia

BIA d.o.o.
Trusted Lab Partner

Activated Sludge 2019
Ljubljana, June 5-7

Rok Štravs, General manager

Who Are We?

- SME established in 1989, 30 years of experience
- **Biotechnology, Instrumentation, Analysis**
- Sales and technical support of laboratory consumables and instruments for customers in R&D labs
- Water as business diversification
- Located in Ljubljana, Slovenia
- Our core values are knowledge, reliability, efficiency and trust
- Our goal is to be one of the best in customer satisfaction in our segment

Some Numbers

- 6 trained and skilled employees
- active v 6 states:
 - Main territory: Slovenia and Croatia
 - Customers also in Serbia, BiH, Macedonia, Montenegro
- turnover 1,04 Mio EUR in 2018
- ISO 9001 certified



Our Fields of Activity

- biotechnology: Biolog, Infors, Lonza, Thermo
- chromatography: Akzo, Antec, Hichrom, Interchim, Knauer, Macherey-Nagel, Spark, Gilson
- organic synthesis: ACDLabs, Genevac, Radleys
- laboratory equipment: Distek, Harvard Bioscience, SP Scientific
- single use products for biopharma: Life Technologies BPD (Thermo), SciLog (Parker-Hannifin), Thomson
- Projects: Biopharm.si, WaMoS

Our Customers

- biopharma:
 - LEK Biopharmaceuticals/Novartis
 - Hospira/Pfizer
- pharma:
 - LEK/Sandoz
 - Krka
 - Pliva/Teva
 - Alkaloid, Bosnalijek, Fidelta, Hemofarm
- chemical and food industry
- universities, institutes and public health

Our Achievements

- 30 years of successful cooperation with all main pharma companies in our territory
- founders of **BIA Separations**, the leading developer of monolith technology and the exclusive producer of CIM® (convective interaction media) chromatographic columns for the production, purification, and analysis of large biomolecules
- partner in 8 Mio EUR project **BioPharm.si** „New Generation of Biologics“, with LEK Biopharmaceuticals (part of Novartis) as leading partner

BIA Separations

- BIA Separations is recognized as one of the 10 best biotech & pharma companies to keep an eye on in 2019 (Mirror Review)





RDP1: Cell Line Quality Control for Biologics Production

Selection of best-performing cell lines for manufacturing is one of the first, but most resource demanding steps in the biologics process development. The goal of the project is to identify critical quality control parameters on the gene and metabolite activities levels that will allow for fast and efficient development of production Chinese

LIMS Story

- 1999 first BIA-Lims in WWTP Domžale-Kamnik
- Customers till 2005:
 - CČN Šaleške doline Velenje Šoštanj
 - ČN Krka d.d.
 - NIB FITO Lims
 - NIB GMO Lims
- 2013 new web-based BIA-Lims for WWTP Domžale
- 2013 – 2014 web-based BIA-LIMS for Melamin d.d.
- 2014 new web-based BIA-Lims for WWTP Krka d.d.
- Activated Sludge Seminar, June 2019, Ljubljana

Slovenian Contribution to Future

- BF, MF, FKKT, IJS: Nature Communication, Sretenovič et al.
- Microbium: dr. Sabina Ott Rutar
- NIB: Viruses and Cavitation, Katarina Bačnik

Coupling of planktonic bacteria

Nature Communications: An early mechanical coupling of planktonic bacteria in dilute suspensions

....Here we employ optical tweezers to show that bacteria in dilute suspensions are mechanically coupled and show long-range correlated motion.

...The matrix responsible for the mechanical coupling is composed of cell debris and extracellular polymer material.....

Our work breaks with a central assumption that cells are not mechanically coupled with other bacteria in dilute bacterial suspensions...

Trends in society

- Citizen Science and Observatories
- Water stewardship
- Water is not only valuable resource, it is slowly getting realistic price
- Public pressure leads to more demanding legislation

Trends in technology

- IoT
- low cost sensors: e-tongue, e-nose, spectroscopy
- Computer vision
- Machine learning and artificial intelligence
- Online water monitoring
- Bacteriophages as tool for microbial control

Acknowledgments

NLB Center for Innovative Entrepreneurialship

SDZV

CČN Domžale-Kamnik

Tehnoptika

Microbium

My colleagues at BIA d.o.o.

Acknowledgments

Dr. Irena Čarman

Steven Leach, Novozymes

Prof. David Jenkins

In memoriam to Dr. Valter Tandoi



ZANESLJIV
LABORATORIJSKI
PARTNER

TRUSTED LAB
PARTNER

Fascinated by life, technology
and science we are constantly
learning and improving.