

Department of Biotechnology B3 Jozef Stefan Institute

We study the functions of **proteins, DNA, RNA** and other macromolecules and their implementation for **diagnostic and therapeutic** purposes in **human and veterinary medicine**, for the preparation of **quality and safe food** and for the **protection of the environment** in which we live.

Department of Biotechnology B3



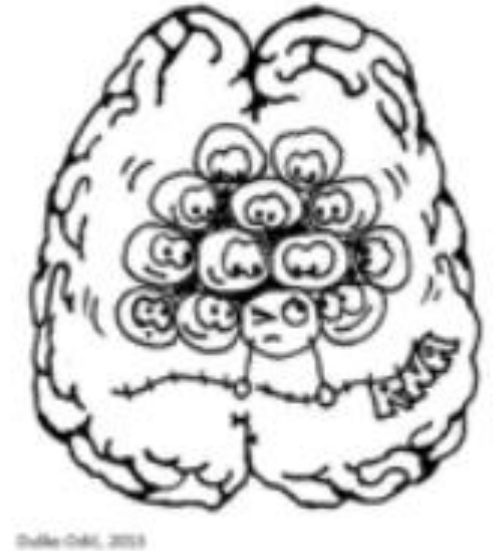
**Biotechnology of
Lactic Acid Bacteria**



**Glycobiology
Biofilms
Fungal proteins**



**Cancer and immune
response**

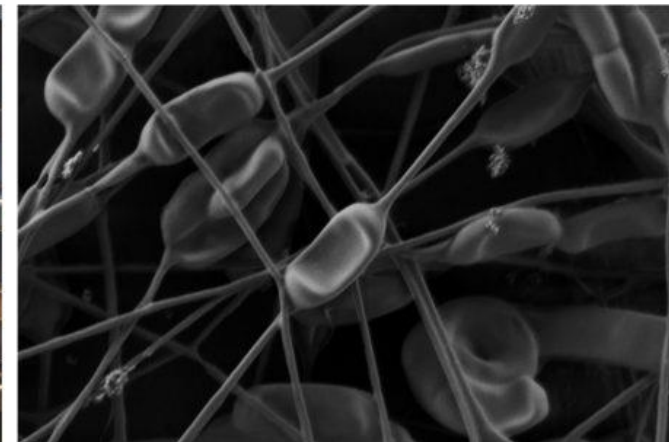
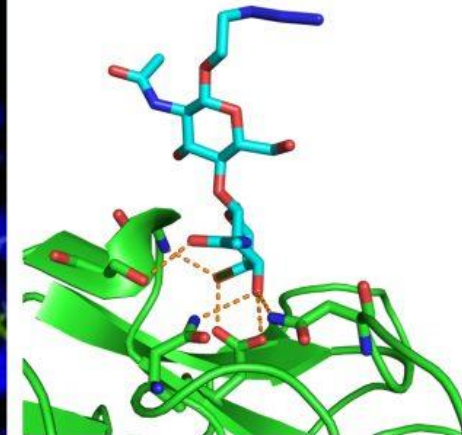
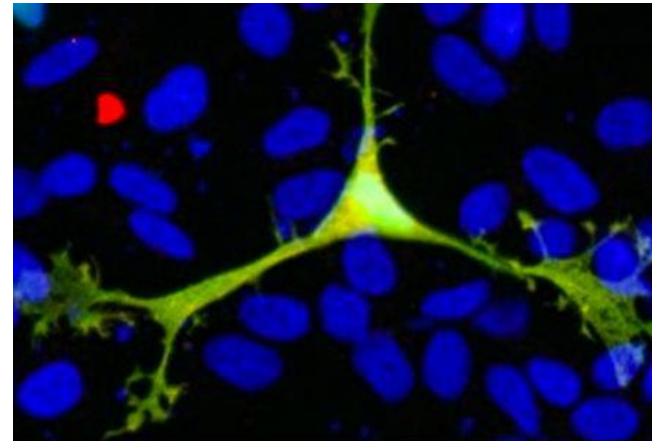


**Neurodegeneration
RNA biology**

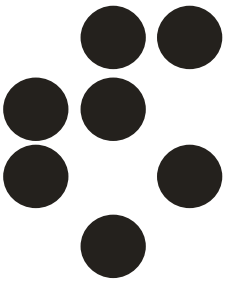
Department of Biotechnology B3

Expertise

- Molecular basis of **neurological diseases** and **cancer**
- Regulation of the **immune response**
- Development of cellular **disease models**
- Biotechnology and genetic engineering of **probiotics**
- RNA and DNA biology, glycobiology, proteolysis
- **Interactions** of biological macromolecules
- Inter- and intra- **cellular transport and cellular stress**
- **Aggregation** of biological macromolecules
- Development of **diagnostic tests, biosensors**
- **Genome editing**
- **Biofilms**
- **Pharmaceutical biotechnology**



Recent high impact publications (2020-2023)



BRAIN

nature communications



nature genetics



Neurology®

