SmartRoute™ TO PROTEIN PRODUCTION

EVALUATION OF EXPRESSION HOSTS

- prokaryotic and eukaryotic systems
- rapid prototyping
- proprietary strain collection
- peptide/protein dependent

LARGE GENETIC TOOLBOXES

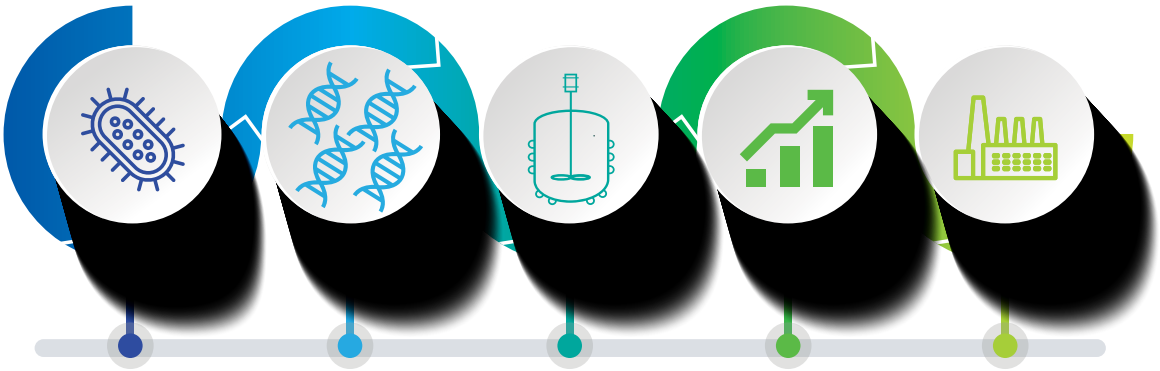
- libraries of genetic tools: ORIs, RBS, signal sequences...
- extracellular and intracellular expression
- *in silico* expression prediction

FURTHER TECHNOLOGY DEVELOPMENT

- bioprocess development
- non-antibiotic production
- UHTP mutagenesis
- automated ALE for substrate adaptation

INDUSTRIALIZATION & CMO

- already set fermentation processes
- diverse DSP equipment
- possible food-grade technology



IMPORTANT ADVANTAGES:

five different host to evaluate with: *E. coli, B. subtilis, Brevibacillus, P. pastoris, T. reesei*
fast PoC phase – up to 2 months,
complete technology development
production capabilities USP & DSP
advanced targeted case-specific strain development
platform suitable for protein- and peptide production

SUCCESS STORIES

- **20 DIFFERENT PROTEIN TECHNOLOGIES ENABLED**
- **PATENT APPLICATION ON NOVEL ENZYME PRODUCTION**
- **A PARTNERSHIP PRODUCING NOVEL RESILIN-BASED BIOMATERIAL**
- **SUCCESSFUL PRODUCTION OF FOOD PROTEINS, AGRO-AGENTS, AND VARIOUS INDUSTRIAL ENZYMES**

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FOUNDED

- 2006, Ljubljana, Slovenia

KEY NUMBERS

- 100 employees, 1/4 PhD
- 1,500 m^2 R&D laboratory
- 10 m^3 fermentation demo plant

PARTNERSHIPS

- 80 leading chemical and biotech companies
- 17 technologies scaled
- >30 international patent applications

TECHNOLOGIES

- microfluidics department
- in-house DNA synthesis
- enzyme assay development
- small-scale purification
- automated ALE systems