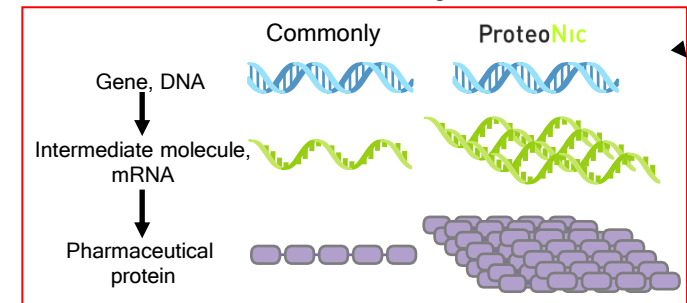


- Manufacturing of pharmaceutical proteins, biologicals, antibodies, biosimilars
 - Dr. Raymond M.D. Verhaert
 - ProteoNic

Organisation: ProteoNic

- SME (Biotech, 10 persons)
- Leiden BioScience Park, NL
- Proven technology to increase the production of biologics

Production of biologics



—Patented and out-licensed to small and big pharma

•<https://proteonic.nl/proteonic-biotechnology-licenses-protein-production-technology-to-eli-lilly-and-company/>

•<https://proteonic.nl/proteonic-biotechnology-licenses-protein-production-technology-to-bayer/>

—Expertises

- Mammalian cell line development, small scale pharmaceutical protein production within 8 weeks, pools and clones
- Yield improvement of antibodies, fusion proteins, etc. incl. difficult-to-produce proteins
- Design and generation of turn-key transfection preparations

—Prior experience

- Partner in EuroTransBio, ERA-IB, Dutch national programs (IBOS, MIT)
- FP7 (OPTIBIOCAT 2014-2017, Supply of newly developed proteins to partners)

- ProteoNic can offer

- Expertise

- Small scale production and basic analysis of antibodies
 - Yield improvement and cost-effectiveness increase of biopharmaceuticals production
 - Application of technology improving the *in vivo* stability of biologicals
 - Biosimilar and difficult-to-produce protein preparation for consortium analysis
 - Implementation of proprietary technology to improve design-to-production time
 - Increasing the biological variants library value by enabling the isolation of new, promising biomedicines

- Other contributions

- Flexibility of cell hosts, types of protein, add-on technologies affecting protein structure, properties, stability add-on technologies affecting cell line productivity
 - Identification of IP opportunities in pharmaceutical generation

- ProteoNic can offer its expertise to
 - All H2020 topics which pharmaceutical protein, as medicine and/or diagnostic is required or desired
 - *For example:*
 - BETTER HEALTH AND CARE - Personalised medicine: Digital diagnostics – Clinical decisions tools – Data
 - BETTER HEALTH AND CARE - Infectious diseases: Cancer prevention and diagnosis – Implementation research
 - BETTER HEALTH AND CARE - Decoding the role of the environment: Micro- and nano-plastics – Human health
 - DIGITAL TRANSFORMATION - Computer solutions for testing medicines
 - TRANSFORMING EUROPEAN INDUSTRY - Custom-made biological scaffolds for specific tissue regeneration and repair
 - FOUNDATIONS FOR TOMORROW'S INDUSTRY - Open Innovation Test Beds for nano-pharmaceuticals production
 - Other programs in which the consortium require complex proteins like antibody molecules

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