



How to raise 16 M EUR non-diluting EU funding towards translational research and development ?

Novel Cellular Models & Stem Cell Systems For Biomedical Research And Drug Screening

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INTRODUCTION – *BEING AN SME WITH A PLATFORM TECHNOLOGY IS GOOD FOR EU PROPOSALS*

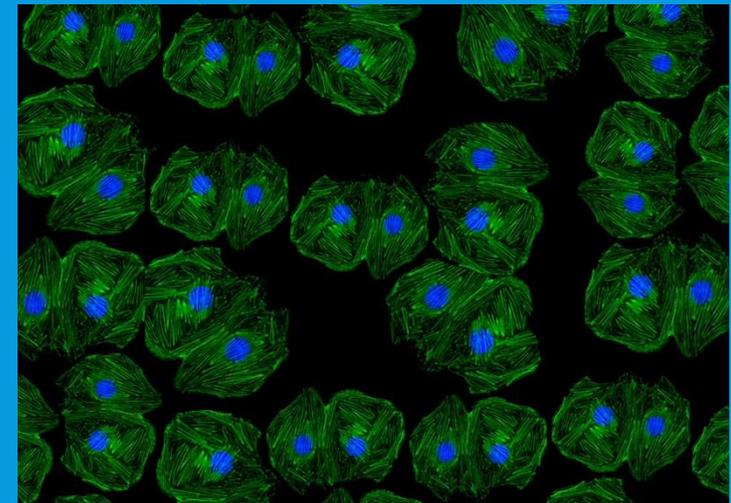
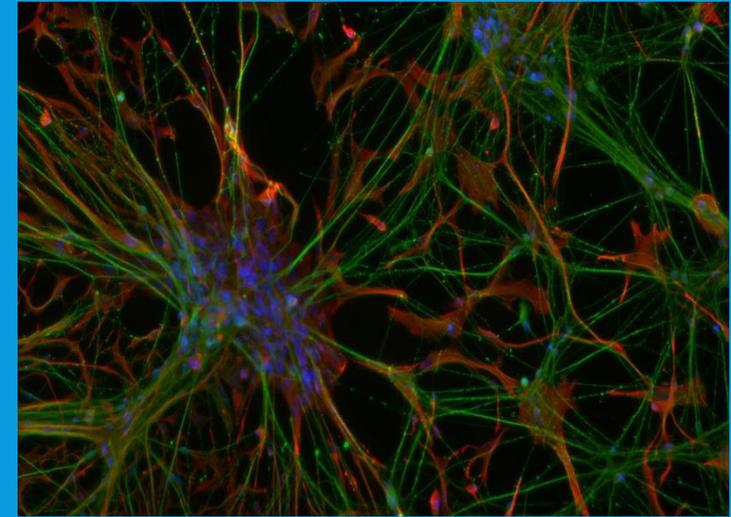
- BioTalentum Ltd. is an RTD intensive SME established in 2005, focusing on **stem cell research and services**, with a branch on EU project management, advisory and trainings.
- Our expertise, tools and technologies **support** the work of academic and pharmaceutical partners to **advance stem cell and regenerative medicine-based research and drug discovery** in order to bring new and better medicines to the market.
- Providing solutions to researchers in pharmaceutical, biotechnology, clinical and academic sectors worldwide.



SCIENTIFIC FOCUS – TECHNICAL EXPERTISE, QC AND GOOD TOOLS ARE ESSENTIAL TO CONTRIBUTE IN CONSORTIA

- We have generated and validated complex 2D and 3D models for neurodevelopmental, neurodegenerative diseases, including several rare diseases with CNS phenotype.
- We are experienced in microglia-like cell generation and their incorporation in the 3D CNS models.
- Furthermore, 2D and 3D cardiomyocyte models are produced at BIOT.
- We have an ongoing hiPSC-derived beta-cell/Langerhans islet program for regenerative medicine also suitable for in vitro modelling (IPCEI MED₄CURE).

Read outs: high-content imaging, functional Ca²⁺ signaling, multi-omics, electron microscopy etc.



EU PROJECT EXPERIENCE – COORDINATE OR NOT-TO-COORDINATE?

- I have **coordinated** 13 EU FP6/FP7/H2020 projects scientifically. <https://biotalentum.eu/international-projects/>
- BIOT participated in over 40+ winning projects
- BIOT Consulting can provide **proposal submission services, and management, dissemination, outreach, business development, regulatory contacts** in a consortium.



BIOTALENTUM IS NO.12 TOP EU GRANT BENEFICIARY IN HU

We are the highest ranked **for-profit** beneficiary Hungarian institutions.

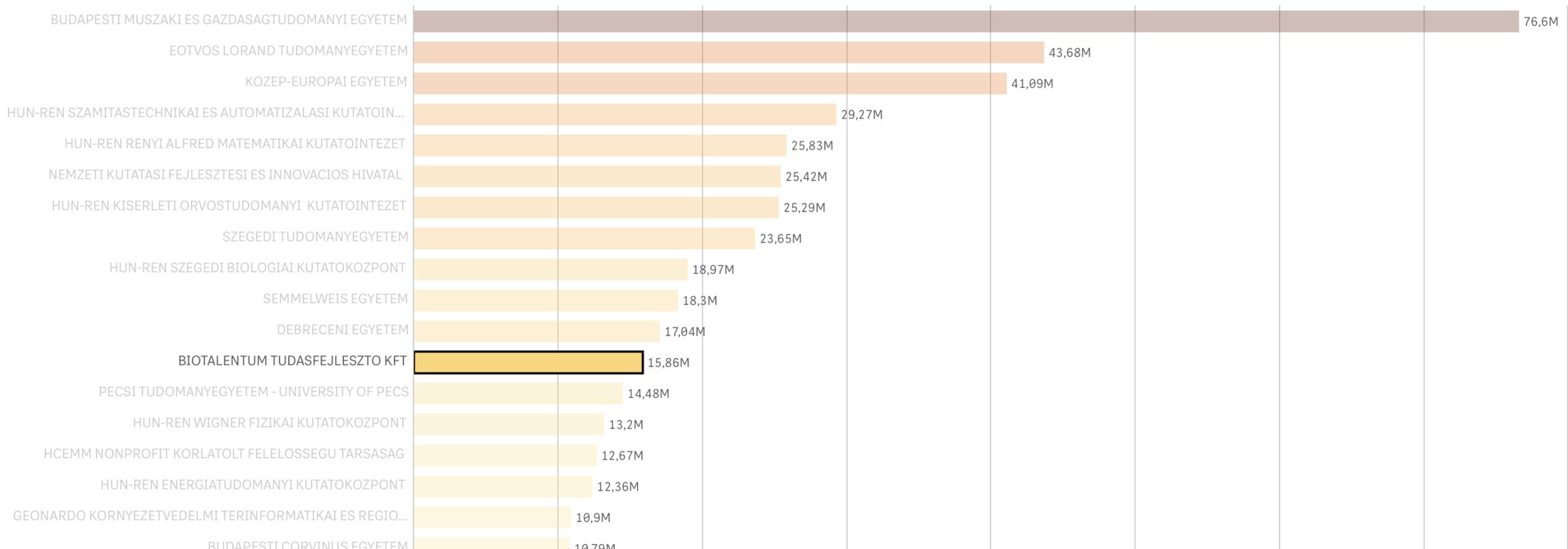
Concerning the grants/staff efficiency ratio, we are **number one in HU**

Qlik ... Analyze Sheet Narrate Storytelling R&I Country Profile

Insight Advisor Country/Territory Hungary Participant Organisa... BIOTALENTUM TUDASF...

Key Figures -

Top organisations



SELECTED PROJECT REFERENCES – FROM 3 MAJOR AREAS

BioTalentum worked together with globally highly acknowledged research institutes on many projects



Regenerative medicine

Xenoislet

- **Date:** 2013-2016
- **Scope:** macroencapsulated porcine pancreatic islets to cure diabetes mellitus type 1/2.
- **Project coordinator:** Catholic University of Leuven.

iNanoBIT

- **Date:** 2017-2023
- **Scope:** applying nanotechnologies for imaging porcine pancreatic islet cellular transplants and iPSC-derived beta-cells and subsequent regenerative processes in vivo in a porcine model.
- **Project coordinator:** BioTalentum Ltd.



Disease modelling

STEMCAM

- **Date:** 2010-2014
- **Scope:** studying the role of the neuronal cell adhesion molecule (NCAM) and related growth factors in the maintenance, survival and differentiation of iPSCs.
- **Project coordinator:** BioTalentum.

D-Board

- **Date:** 2012-2017
- **Scope:** novel diagnostics and biomarkers for early identification of chronic inflammatory joint diseases.
- **Project coordinator:** University of Nottingham.



In vitro toxicology

EU-ToxRisk

- **Date:** 2016-2021
- **Scope:** integrated European 'Flagship' program driving mechanism-based toxicity testing and risk assessment for the 21st century.
- **Project coordinator:** University of Leiden.

IN3

- **Date:** 2017-2020
- **Scope:** integrated interdisciplinary approach to animal-free chemical and nanomaterial safety assessment.
- **Project coordinator:** Vrije Universiteit Amsterdam