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Semmelweis Innovation: The accelerator of ideas at Semmelweis University Semmelweis University Innovation Center

Semmelweis University

- International, specialised **medical university** (11,000 students, 28,7% international) - Six faculties
- Hungary's **leading health care provider** - 27 clinics and nearly 8,000 employees
- A preeminent international **research centre**
 - 1,100 staff scientists in 140 active research teams



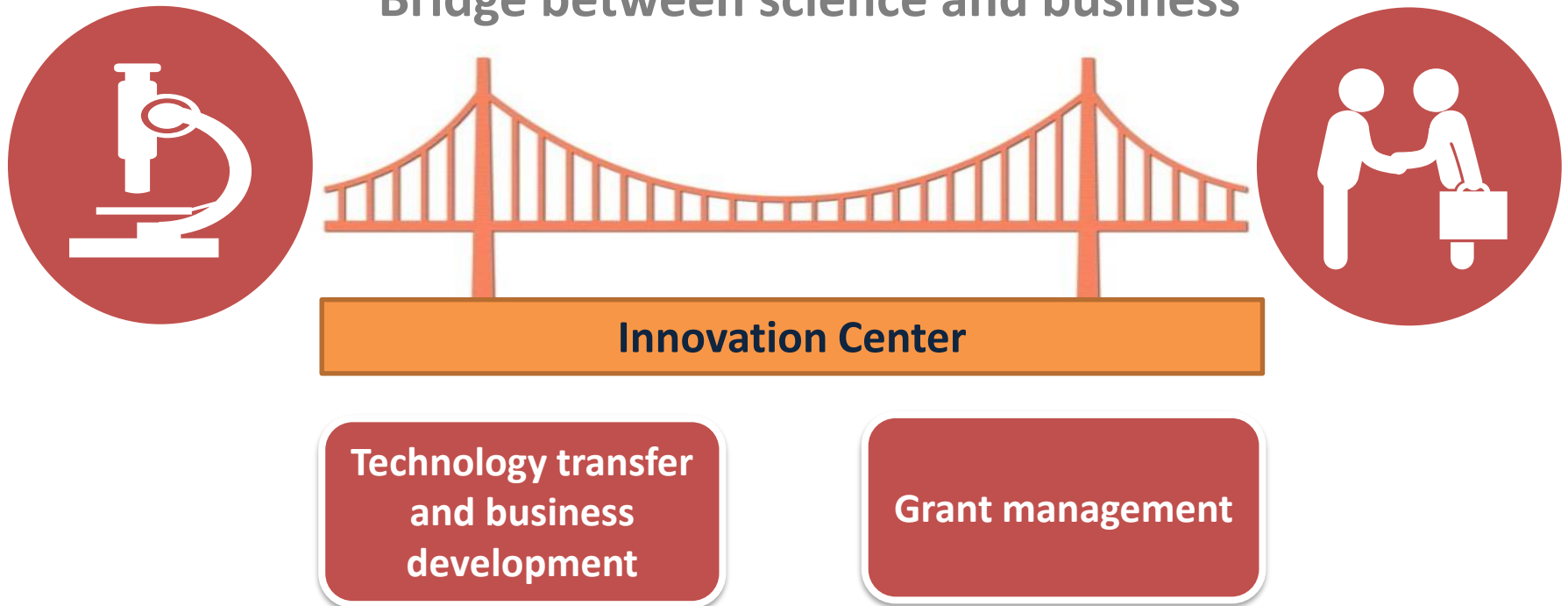
INNOVATION CENTER

Mission, structure

Our mission:

Spreading innovative thinking, enhancing, protecting and utilizing the University's intellectual property assets – in innovation ecosystem based industrial collaborations

Bridge between science and business



Technology Transfer and Business Development Services



Intellectual property

- Identification
- Evaluation and protection of industrial rights



Economic utilisation of intellectual property

- License contracts
- Sales contracts



Supporting University spin-off companies

- Investor scouting
- Consultancy



Information service, education of researchers on technology transfer

- Organisation of professional events, consultations
- Start-up events

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Patent Portfolio sample

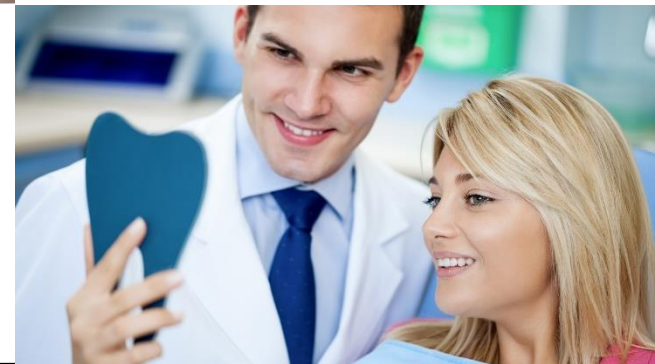
Surgical Shell

Positioning shell, method for making the shell, a method for applying the shell during the surgical procedure and / or its simulation



Dentin Meter

Measuring device for determining electrical parameters of teeth

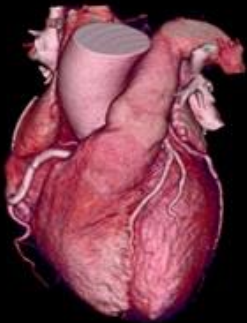


Extracellular vesicle quantification

Method for quantification of extracellular vesicles

Orto Vesicle

New Technique for Diagnostics of Peripheral Infections

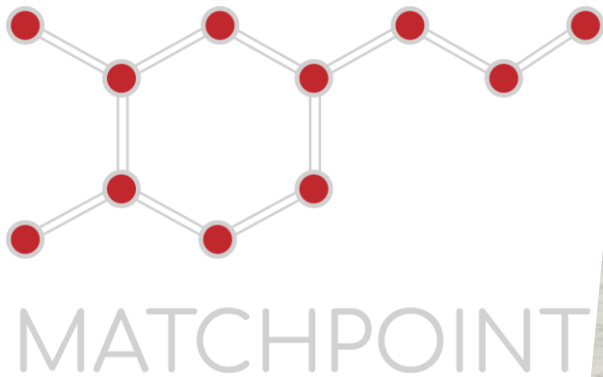


Dehistentia Plaster

Plaster for wound healing for the treatment of dehiscencia along the seams

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Developing an innovation ecosystem



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Focusing on student success



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Grant and Project Management Services

Grant monitoring and information service

- Sending newsletters
- Project generation
- Tracking grant programmes

Preparation of proposals, consultancy

- Coordination of grant preparation
- Submitting proposals
- Coordination

Project management

- Overall management of proposals, financial coordination

Administration of proposals

- Management of University project portfolio
- Maintenance of proposals



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Industrial cooperation



Cooperation is crucial



Scientists Katalin Kariko and Drew Weissman invented the RNA messenger technology for the covid-19 vaccine produced by Pfizer and Moderna, Picture: David Maris



Bertalan Mesko
The Medical Futurist



WILL DIGITAL HEALTH TECHNOLOGY REPLACE PHYSICIANS?

DIGITAL HEALTH TECHNOLOGIES WILL PLAY A LIMITED ROLE IN THESE PROFESSIONS MOSTLY SERVING AS AUXILIARY TOOLS.

DIGITAL HEALTH TECHNOLOGIES WILL HAVE AN IMPACT ON THESE PROFESSIONS BUT IT WON'T CHANGE THEIR INTERACTION-BASED NATURE.

REPETITIVE
(A LARGE PART OF THE JOB IS THE SAME EVERY DAY)

INTERACTION-BASED
(TALKING WITH THE PATIENT IN PERSON OR REMOTELY)

CREATIVE
(SOMETHING NEW HAPPENS EVERY DAY)



MANY REPETITIVE COMPONENTS OF THE JOBS WILL BE REPLACED BY TECHNOLOGIES TO CREATE SPACE FOR CREATIVE TASKS.

THESE PROFESSIONS WILL BE HEAVILY DEPENDENT ON DIGITAL HEALTH TECHNOLOGIES, MEDICAL PROFESSIONALS WILL WORK WITH THEM ON A DAILY BASIS.

DATA-BASED
(DEALING WITH DATA ABOUT OR DERIVED FROM THE PATIENT)

Thank you!

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