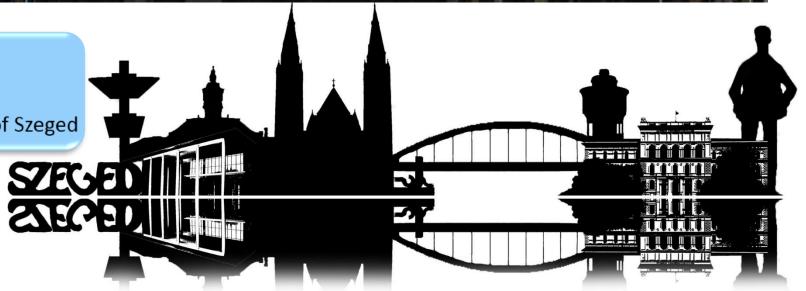




Prof. Tamas Molnar MD, PhD, DSci

Vice-Dean for Scientific Affairs

Faculty of Medicine at the University of Szeged



The goals for our institution: "the gathering, spreading and enhancement of human knowledge"

The teaching of future scientists "who will eventually take over this profession from us"



Albert Szent-Györgyi

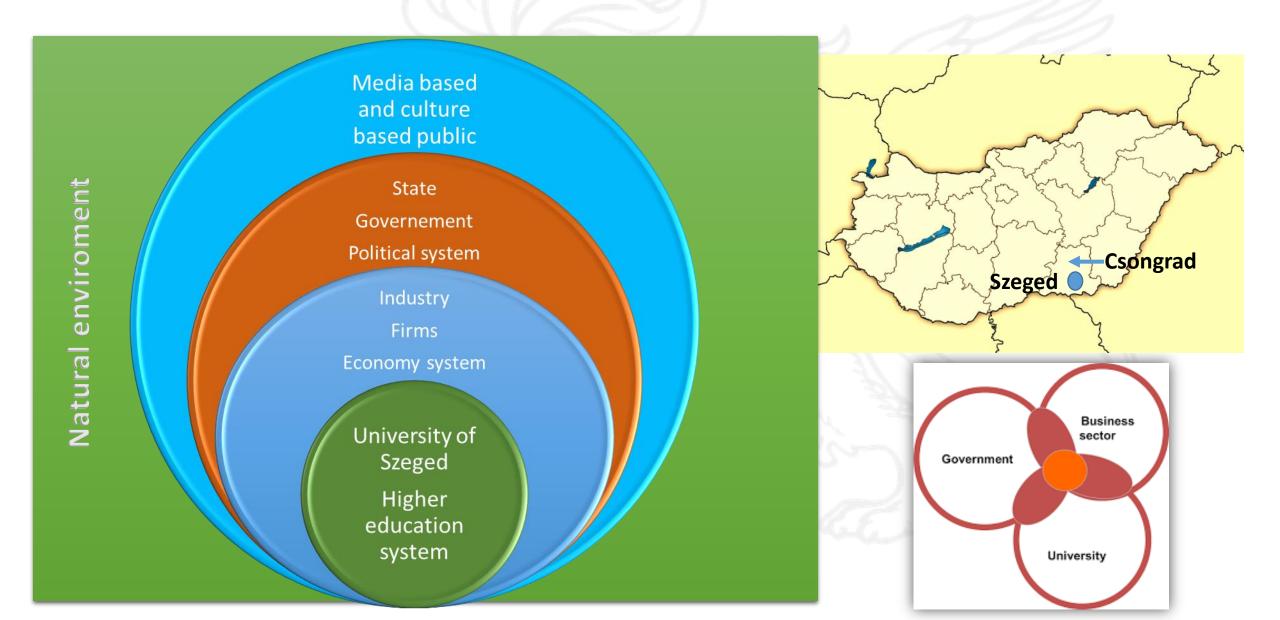
"Our institution has another special mission: to be the intellectual centre of the Great Hungarian Plain"

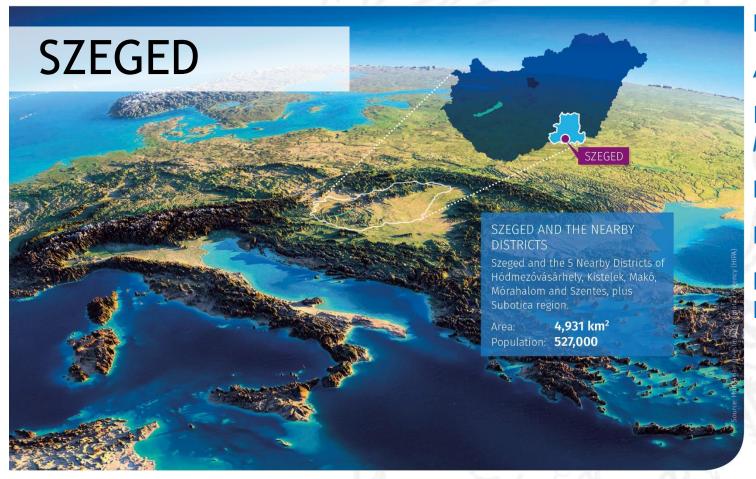
# History of the University of Szeged



- The history of the University of Szeged dates back to 1581 when István Báthory, the Prince of Transylvania founded a higher education institution in Kolozsvár
- Later Maria Theresia entrusted the Piarists to reorganize the institution as a result of which the Faculty of Medicine-Surgery was established in 1775
- The institution moved to Szeged in 1921

### SZEGED - KNOWLEDGE REGION OF HUNGARY





Population: 168,050\*

Area: 281 km<sup>2</sup>

Intersection of 2 motorways - M5,

M43

Budapest airport - about 90 min.

Local airport - development plans

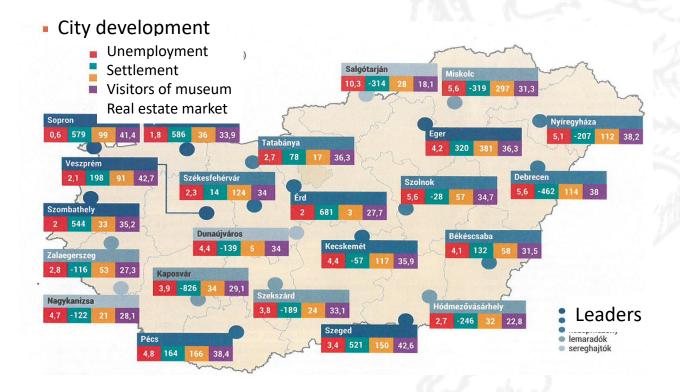
Easy access on railroad towards Budapest, Serbia, Romania

- Serbian-Romanian-Hungarian triple border, one of the south-eastern gates of the EU
- Attractive location, advanced infrastructure and service sector, high level education, highly qualified labor force with foreign language skills for

knowledge-intensive

## CITY OF SZEGED: TRANSPARENT GOVERNANCE

Szeged is one of the most transparent towns in Hungary.



Szeged City - open-minded culture and a receptive community - 91% of the inhabitants (according to a survey) is opened toward international companies

Szeged is in the top 3 cities in terms of regional development among Hungarian county seats.

(Source: HVG weekly)

## CITY OF SZEGED: SMART CITY DEVELOPMENTS



- bank card payment option - at public transport vehicles



- online-systems of City services (public catering + heat supply)



- Free Wi-Fi at public transport vehicles



- Creation of an integrated urban program- database

+ research project with university to analyze collected information



+ Among the few winners of the EU's Urban Innovative Actions call, in cooperation with local employers to enhance mobility for employees and support sustainable modes of transport

#### Extreme light infrastructure (ELI) Attosecond Light Pulse Source (ALPS) project



The primary mission of the ELI-ALPS Szeged research facility is to make a wide range of ultrashort light sources accessible to the international scientific community user groups. Laser driven secondary sources emitting coherent extreme-ultraviolet (XUV) and x-ray radiation confined in attosecond pulses is a major research initiative of the infrastructure. The secondary purpose of the facility is to contribute to the necessary scientific and technological developments required for high peak intensity and high power lasers.



Number of children in preschools	Number of students in primary schools	Number of students in high schools	Number of students in vocational schools	Number of university students
5,041	12,174	4,332	7,691	20,706

#### 2<sup>nd</sup> best educational indicators in Hungary

2<sup>nd</sup> highest

number of English speakers in Hungary (26% of the population)

13% of the

students

population

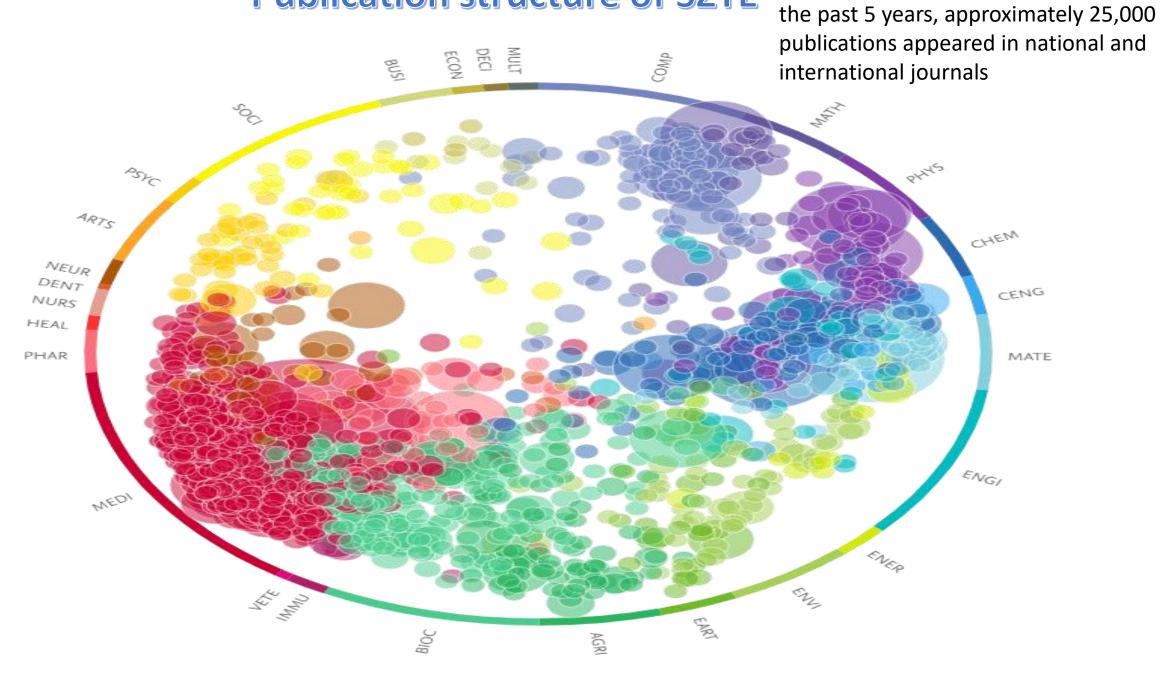
Every 4<sup>th</sup>

person owns college/university degree (23% of the population)

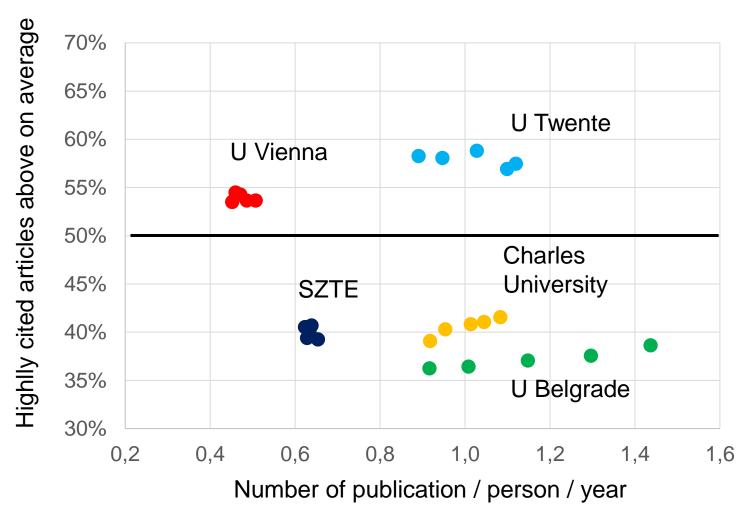


- Times Higher Education (THE) has announced its world ranking for the AY of 2018/2019. In the list of British specialist journals similarly to last year the University of Szeged is ranked among the 601–800th place.
- With this result, SZTE is the second best in the competition among Hungarian universities.
- The most powerful indicator of the University of Szeged is internationality, which includes the number of foreign teachers and students, as well as publications

#### **Publication structure of SZTE**



#### Publication quality vs yearly number: place for improving



# UNIVERSITY OF SZEGED - RESEARCH UNIVERSITY OF NATIONAL EXCELLENCE

**2,500 instructors and researchers** are actively involved in national and international research projects

We have 19 Doctoral Schools

Since 2011 a significant number of research teams have been granted European Research Council support.

Among the Best 600 Universities of the World

**Greenest** Hungarian university

University with Nobel prize winning professor

Good and Excellent classifications

#### Klebelsberg Library:

- one of the "Most Amazing Libraries of the World"
  - bestmasters.com











#### THE NOBEL PRIZE • I.



Outstanding professors have worked at the university, including the Nobel Laureate Albert Szent-Györgyi (1937), who was the first to isolate Vitamin C, extracting it from Szeged paprika





# ALBERT SZENT-GYÖRGYI'S EDUCATIONAL ACTIVITY AT THE UNIVERSITY





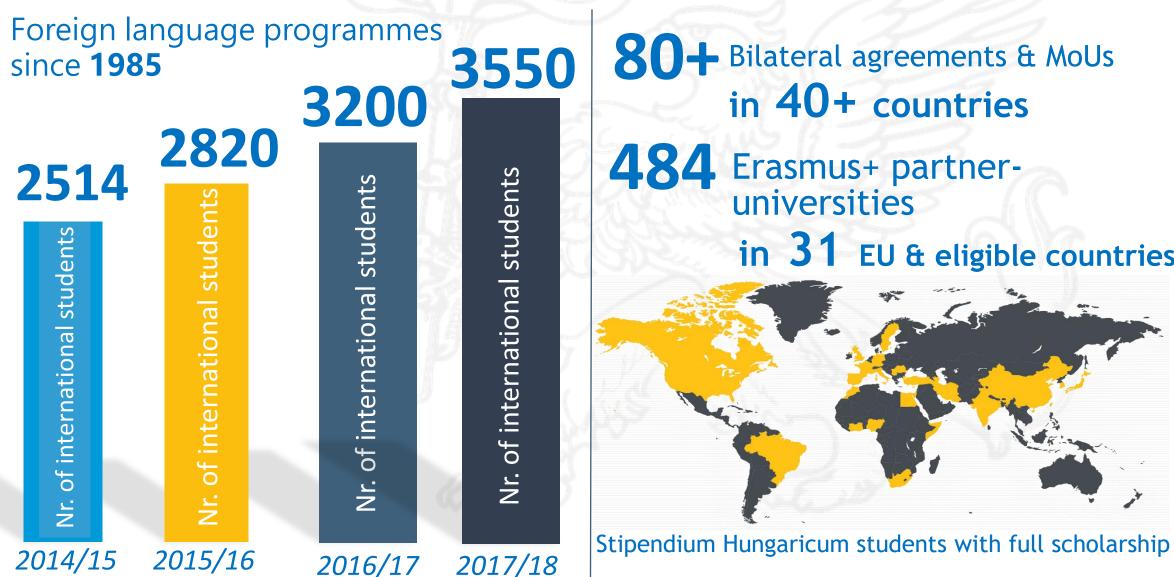






As sectors (odg view a gyden lagf)

## University of Szeged - INTERNATIONAL RELATIONS



80+ Bilateral agreements & MoUs in 40+ countries 484 Erasmus+ partneruniversities in 31 EU & eligible countries

## SZTE Experience





I'm a Ph.D. student from Ghana. The Dom square is a magnificent landmark, and the surrounding buildings are excellent reference points of a branded city of natural beauty. I will recommend the university to because of the quality educational system for career development.

I'm from Ecuador and a Stipendium Hungaricum scholarship holder in my second year. I chose University of Szeged because of its highly ranked status in Hungary. I like the generosity of the people and the fantastic university facilities. The student environment is very relaxing, and you learn a lot from the cultural diversity.







Student from Facutly of Economics
The University of Szeged is a well-known and internationally ranked institution in Hungary and worldwide. It is such a wonderful experience to study here. Instructors are professionals and well-qualified; students are nice and open towards foreign cultures.

#### Research University

- 19 Doctoral Schools 110 PhD programmes, 19 PhD programs in English
- 16 research groups supported by MTA (Hungarian Academy of Science)
- 7 MTA Lendület research groups
- **5** ERC research groups (StG, CoG, AdG)

#### Primary Research Fields

- Neurobiology
- Preclinical pharmacology
- Pharmaceutical Chemistry
- Clinical Pharmacology
- Genetics
- Nanotechnology and Material Sciences
- Laser Physics
- Software Development
- Biotechnology and Environmental Technology
- Microbiology
- Agricultural sciences
- Dermatology
- Dentistry

# Research, Development & Innovation



- 43 Patents
- 16 Know-how
- 102 Industrial partners
- 22 strategic partners
- 13 Licence agreements

35 Contract/projects with industrial partners

**70** EU funded projects



3,5 MEur income/ year

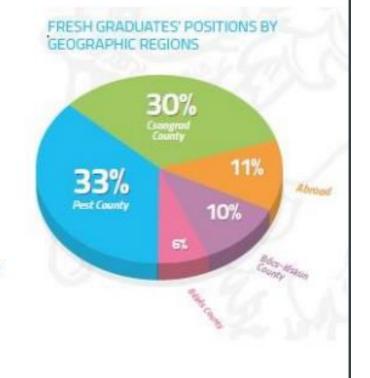
2 SZTE certification

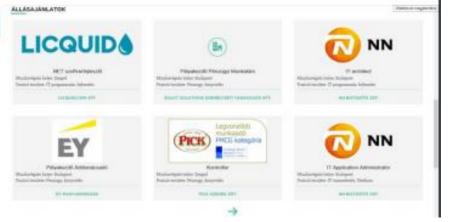




#### **SZTE Career Office**

- organizes the biggest career expo in the region
- coordinates internship programmes
- connections with local and national companies, labour agencies and NGOs
- information regarding the labour market
- advice on writing competitive CVs and motivational letters





## **Innovation Day**

- Distribution of Innovation Prizes
- Presentations on R+D+I





## SZTE Alumni (SZTE ALMA)

- since 2005
- university and faculty level programs
- thousands of alumni joined the SZTE ALMA community

social media database development professional and leisure venues reunions and yearbooks

JELENTKEZZ ELSŐ KÖRBEN SZEPTEMBER 22-IG!

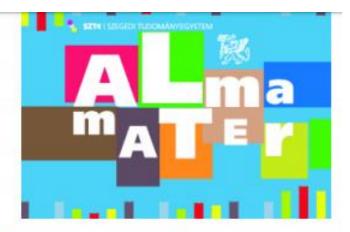


WWW.SZTEALMAMATER.HU



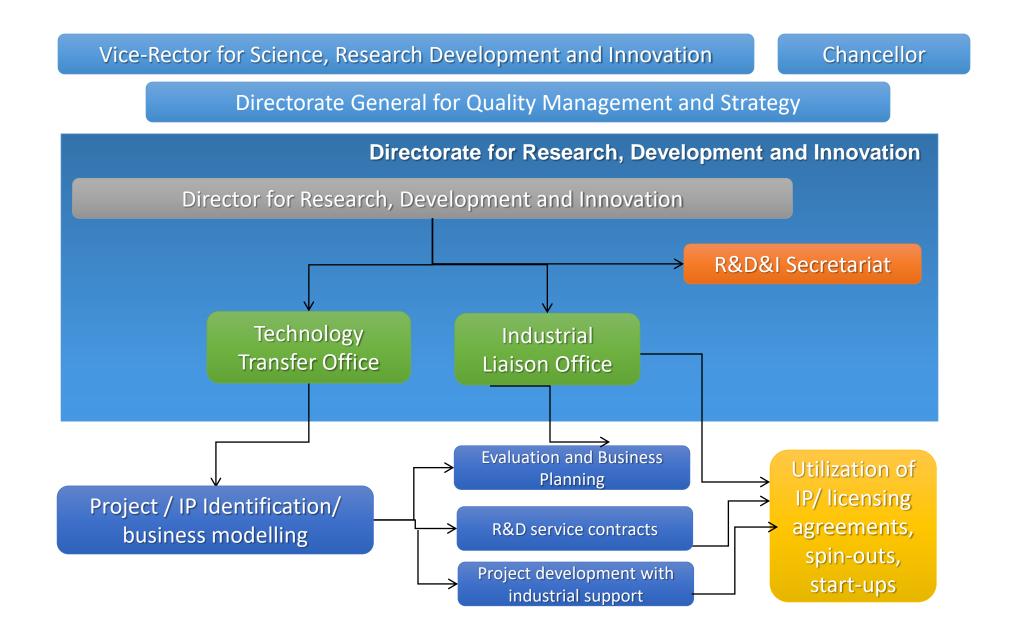
#### **Alumni Mentor Program**

- 30-40 mentors
- 15-20 companies
- 40-50 mentorees

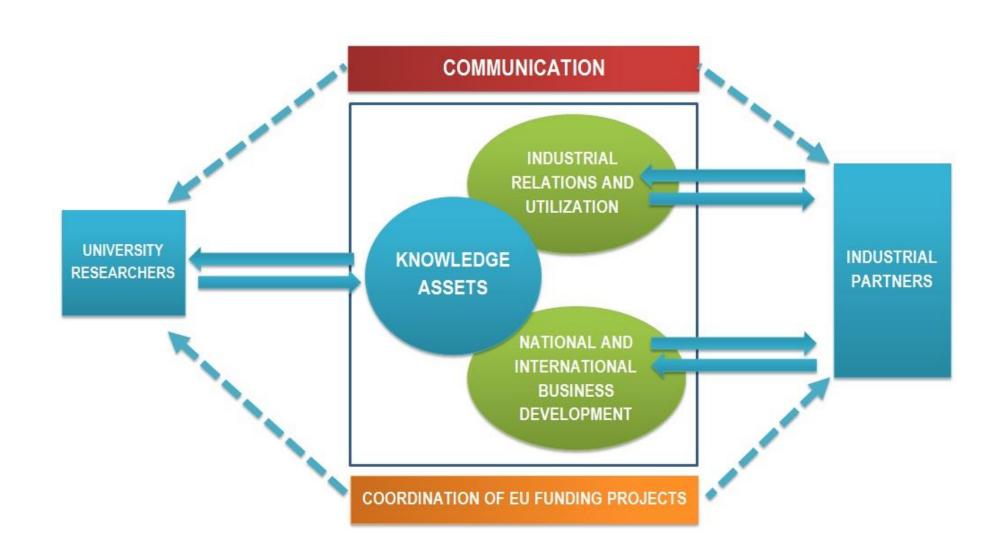




#### Technology Transfer structure at the University of Szeged



#### Technology Transfer structure at the University of Szeged: One —stop-shop for industry



#### **Our achievements**

#### **SELLING OUTLICENSING**





BIOTECHNOLOGY



#### **UNIVERSITY-INDUSTRY COOPERATIONS**































## Back to the Nobel prize

UNIVERSITAS SCIENTIARUM SZEGEDIENSIS Universitas scientiarum szeged

#### Szent-Györgyi Albert Competition

every year since 2012

more than 40 student teams

high school students' competition



Attract
Mentor
Retain

talented in Szeged
students
in Hungary

valuable prizes





## Back to the Nobel prize

#### Szeged Scientists Academy



Since 2013

Dr. Bert Sakmann, Nobel Laureate physiologist – Director of Education

- Regional and national objectives
- Meeting of Nobel Laureates and Talented Students 19 lectures by Nobel Laureates organized in Szeged
- Secondary School Education program talent management of biology and chemistry education Biology Lab - Radnóti Miklós Experimental Grammar School
- University Education and Training

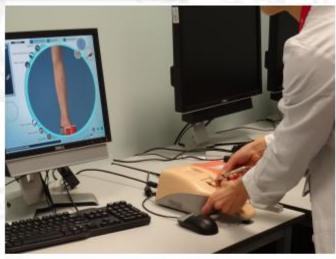


#### New innovation: Clinical Skill Centre

Offering the most Comprehensive Hands-On-Training for GI Procedures Fully wireless and tetheraless with blood, fluids and power on-board High-performance and ultra-realism patient simulator

















#### International collaborations of the Faculty of Medicine



- International collaborations both in education and in research are playing a big role in the life of the Faculty of Medicine
  - Erasmus mobility (38 active Erasmus opportunities)
  - Professional exchange practice (annually 40-50 student travels the world, and the same number of students are received)
  - JPEMS -Joint Program for European Medical Studies (It is operated together with 7 Universities [Angers, Nantes, Naples, Amsterdam, Szeged, Timisoara, Cluj-Napoca]

### JPEMS – Joint Program for European Medical Studies

#### JPEMS Joint Program for European Medical Studies

Search...

Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca



#### Login Form

## Username

#### Welcome

JPEMS - The unique experience of a medical curriculum in an international context.

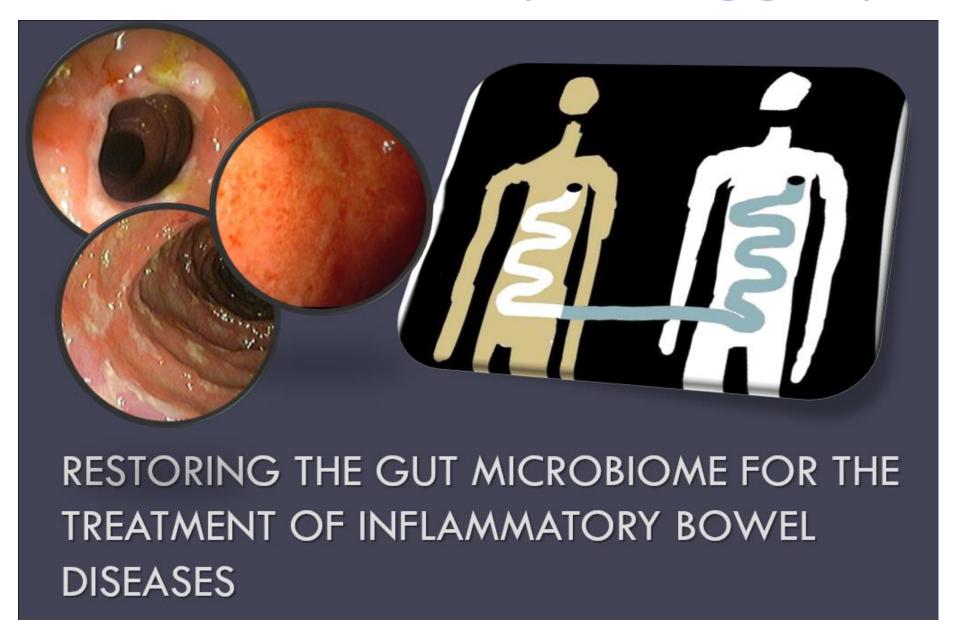
After the successful implementation of the JPEMS by the University of Szeged (2015), the VUmc School of Medical Sciences of Amsterdam (2016), the University of Angers (2017), "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca is happy to welcome the medical program in 2018.

## Women in Science: we have five female clinicians who won L'Oreal Prize!

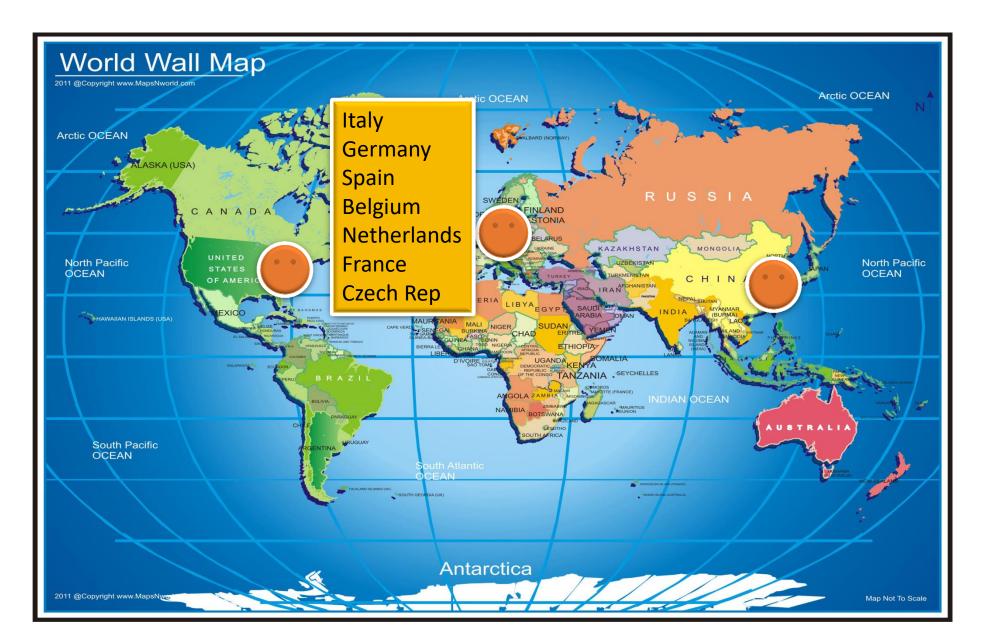




## New innovation of my working group



#### Our scientific international collaborations



## Why choose the University of Szeged?





- The University of Szeged (SZTE) with a history dating back to 1581, is located in the sunniest city of Hungary attracting thousands of young people due to its lively, urban lifestyle and colourful festivals
- Since Hungary is a member of the European Higher Education Area (EHEA), it also has EU (and US!) accreditation
- It is a research university with outstanding achievements, covering 700 research areas at 19 Doctoral Schools and 50 full-time degree programs for international students
- Our student body grew to 21000, in which the number of international students exceeds 3500