First Symposium

"Toward translational research in brain and heart studies: Achievements and challenges in knowledge and technology transfer"

February 18, 2008, Zagreb, Croatia

Organizers: Selma Supek, University of Zagreb, Faculty of Science
Ratko Magjarević, University of Zagreb, Faculty of Electrical Engineering and Computing

Supported by: Croatian Biophysical Society (CBS)
Croatian Medical and Biological Engineering Society (CROMBES)
Croatian Society for Neuroscience (CSN)
IEEE Croatia Section EMBS Chapter

TRANSLATIONAL RESEARCH

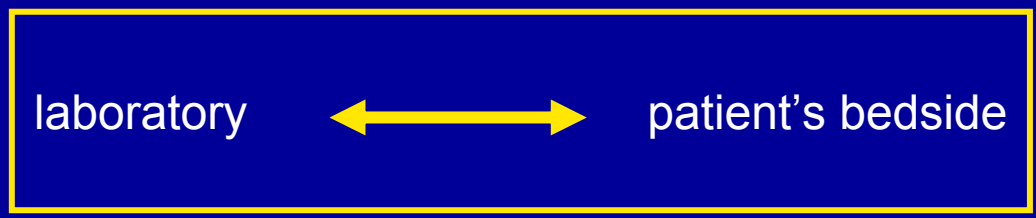
Movement of discoveries in basic research to application at the clinical level

Translation of basic research into real therapies for real patients

‘’bench to bedside’’

Development and application of new technologies in a patient driven environment

Modern healthcare – a move to a more open, ***patient driven research process***
and a more ***research driven clinical practice of medicine***



Focus of the *First Symposium* on the BRAIN and HEART studies

To improve human health scientific discoveries must be translated into practical applications

Well-trained multi- and inter-disciplinary investigators and research teams

Structurally and functionally integrated universities promoting interdisciplinary programs

Innovative research tools and information technologies

Efficient transfer of knowledge and technologies

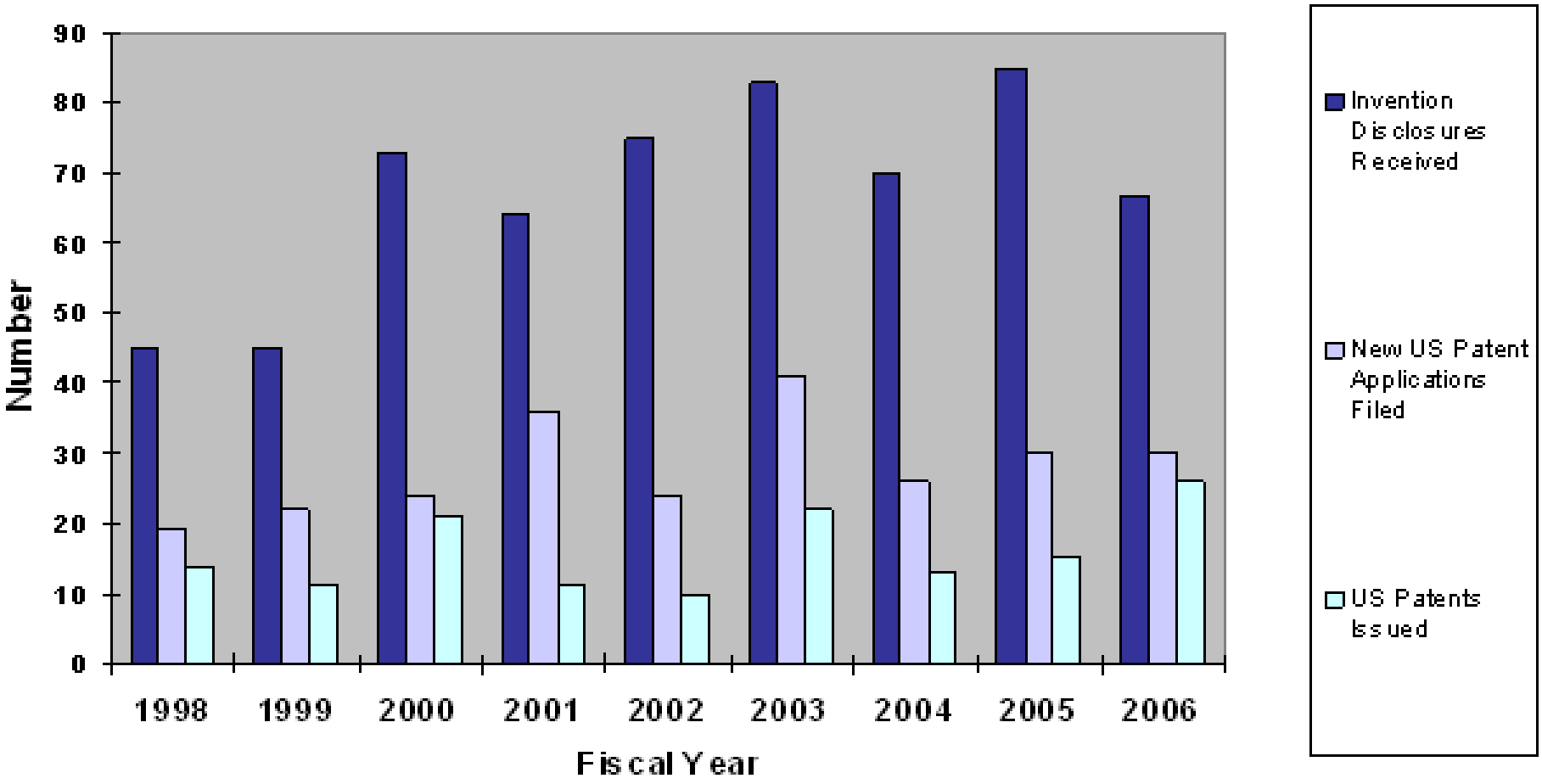
Academia – Industry collaboration

Conflict of interests

Public benefits vs. Profit

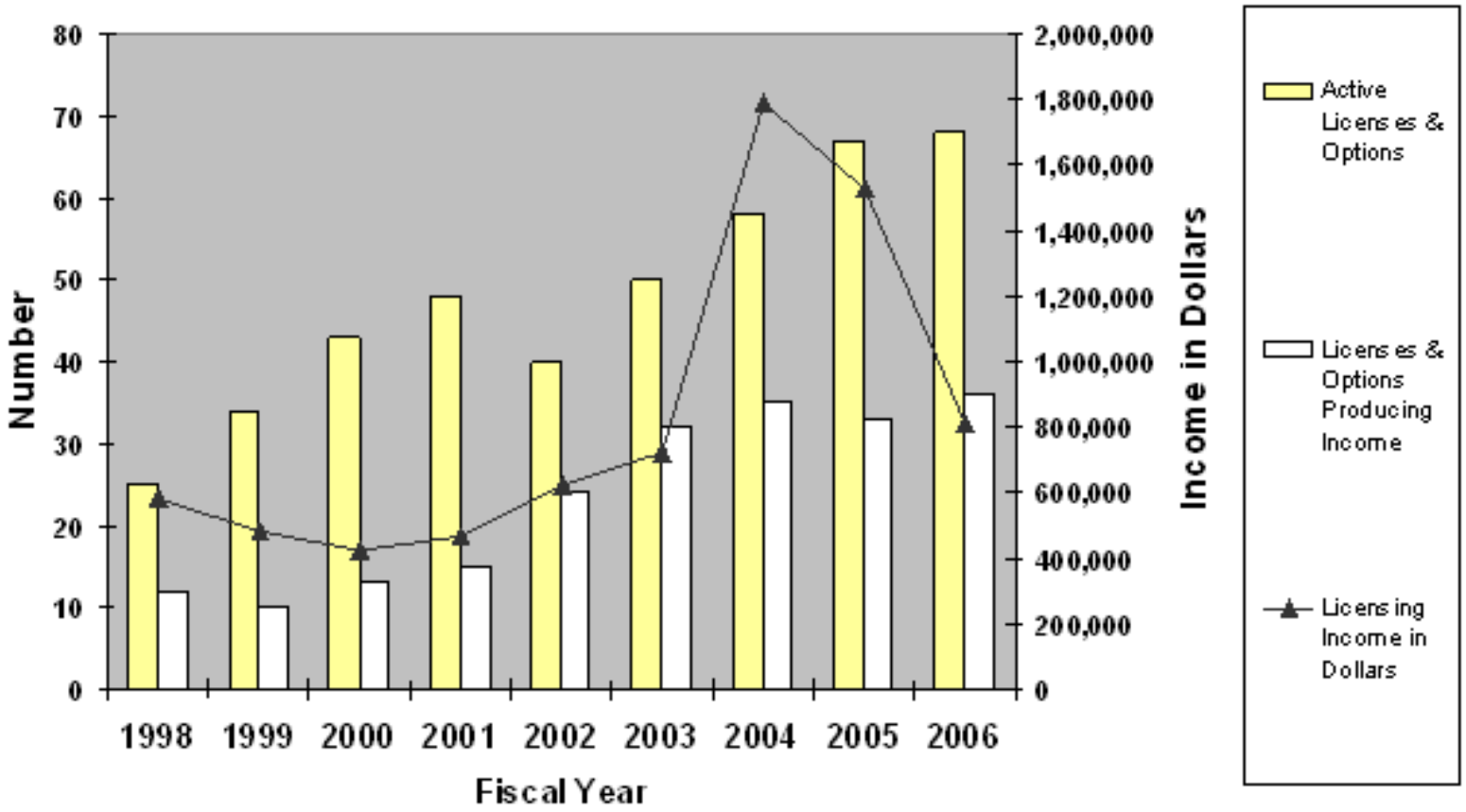
To patent or not???

Disclosures and Patents



The Center for Science and Technology Commercialization (CSTC) manages the commercial application of the discoveries, inventions and technologies developed at The University of Connecticut

Licenses and Income



50+ million USD for research

2.5 million USD for the CSTS

0.8 million USD licencing income

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Welcome and introductory remarks

Selma Supek, *University of Zagreb, Faculty of Science*, ***for the Organizers***

Vedran Mornar, *University of Zagreb, Faculty of Electrical Engineering and Computing,* ***dean***

Ivica Kostović, *Croatian Society for Neuroscience,* ***President***

Stanko Tonković, *Croatian Medical and Biological Engineering Society,* ***President***

10: 15 – 10:30 Jens Haueisen:
"The influence of forward model conductivities on EEG/MEG source reconstruction"

10:30 – 10:45 Selma Supek:
"Neurodynamic imaging in the assessment of sensory and cognitive functions in health and disease"

10:45 – 11: 00 Ivica Kostović
"Neuroimaging in developmental cortical disorders"

11: 00 – 11:30 Coffee Break

11:30 – 11:45 Hrvoje Hećimović:
"Clinical model of neural networks"

11:45 – 12:00 Dražen Domijan:
"How computational modeling might contribute to neuropsychology"

12:00 – 12:30 **Discussion**

12:30 – 14:00 Lunch

14: 00 – 14:15 Ratko Magjarević:
"Can we predict cardiac events? - Our experience on atrial fibrillation prediction after CABG"

14:15 – 14: 30 Jens Haueisen:
"Optimization of magnetic sensor systems for magnetocardiography"

14:30 – 14:45 Sven Lončarić
"An approach to aortic outflow velocity analysis"

14: 45 – 15:00 Coffee Break

15: 00 – 17:00 **Round table discussion**

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Intellectual property system
Transfer of knowledge
Transfer of technology
Spin-off companies
Academia-industry/hospitals cooperation
Conflict of interest challenges

Bojan Benko: ***Simple strategy for facilitated protection and utilization of research results***
State Intellectual Property Office of the Republic of Croatia

Nataša Maršić: ***CARDS 2003 "Intellectual Property Rights Infrastructure for the Research and Development Sector in Croatia"***
Croatian Institute of Technology

Ivo Orlić: ***Science and Technology Park of the University of Rijeka, STeP Ri***
University of Rijeka

Sven Lončarić: ***Technology Transfer Office of the University of Zagreb: An Overview of Activities***
University of Zagreb

Jens Haueisen
TU Ilmenau