

## Curriculum Vitae

István Biró

Date and place of birth: 03.05.1984, Târgu Mureş, Romania.  
Occupation: PhD student at University of Antwerp, Belgium.  
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### Education:

- 2010 - : PhD student at University of Antwerp, Department of Biomedical Sciences
- 2009 - 2010: integrated PhD / Research Associate at Jacobs University Bremen, on EU Marie Curie “Translocation” project
- 2007-2009: Master of Science in Nanomolecular Science, Jacobs University Bremen
- 2003- 2007: University Degree (4 years) in “Physics – Computer Science” awarded by Faculty of Physics, Babes-Bolyai University, Cluj Napoca.
- 2004-2007: Certificate on completion of “Training for Didactic Personnel”, Romanian Ministry of Education and Research.
- 1999-2003: Bolyai Farkas Theoretical High School, Târgu Mureş, Romania.

### Current field of research:

- *In vitro* electrophysiology on neocortical brain slices and cell cultures; investigation of the properties of bacterial porins with planar lipid bilayer technique; computer simulations and applications.

### Publications:

- István Biró, Soroosh Pezeshki, Helge Weingart, Mathias Winterhalter, Ulrich Kleinekathoefer: Comparing the temperature-dependent conductance of the two structurally similar E. coli porins OmpC and OmpF, Biophysical Journal, in press, 2010.
- István Biró, K. Gábor Szabó, Balázs Gyüre, Imre M. Jánosi, and Tamás Tél: Power-law decaying oscillations of neutrally buoyant spheres in continuously stratified fluid, Physics of Fluids 20, 051705, 2008. And presented at the XXVIII.National Scientific Conference of Students, 2007 as I. Biró: Levitation and oscillation of balls in continuously stratified fluid.
- Péter Hantz and István Biró: Phase Separation in the Wake of Moving Fronts: Experiments and Simulations, Physical Review Letters, 96, 2006.
- István Biró: Experimental study on magnetic pendulums, Fizikai Szemle, 2006.

### Prizes at Physics competitions and scientific sessions:

- 2007: XXVIII.National Scientific Conference of Students – honourable mention.
- 2005: Scientific Conference of Transylvanian Students - shared 1st prize.
- 2005: XXVII.National Scientific Conference of Students – special prize.
- 2003: Scientific Conference of Transylvanian Students – 2nd prize
- 2002: „Természet Világa” natural science competition - biocybernetics 3rd special prize
- 2001.: TIT National Informatics Competition- honourable mention
- 2001: Mathematical and Physical Journal, experimental problems: 1-2.prize

### Recent conferences, meetings and summer schools:

- 2009: 436th WE Heraeus Seminar: Biosensing with channels: faster, smaller, smarter, Jacobs University Bremen, Bremen, June 28 – July 04.
- 2009: Annual Network Meeting, Cagliari, Italy, May 3-9, participation with talk.

### Internships:

- 2008 – one month internship at Nanion, Munich

Further activities:

- 2007-2009: Resident Associate in the college Red House, Jacobs University
- 2007- 2009: Teaching Assistant, Physics, Jacobs University Bremen
- 2005-2006, 2006-2007: inner member of Physics College of KMEI and UBB.
- 2004, 2005: Scientific Conference of Transylvanian Students, Physics section: head of section.
- 2003-2006: Hungarian Student Union of Kolozsvár, Physics Section: president.

Known languages: Hungarian (native language); Romanian (advanced); German (advanced); English (advanced).

Antwerp, 03.03.2010.

Signature:

*István Biro'*