



Endre Jakab

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📍 **Address :** 5-7 Clinicilor st., 400006 Cluj-Napoca (Romania)

WORK EXPERIENCE

Vice-dean

Faculty of Biology and Geology, Babeş-Bolyai University [04/2016 – Current]

Address: 44 Republicii (Gh. Bilaşcu) st., 400015 Cluj-Napoca (Romania) - <http://bioge.ubbcluj.ro>

City: Cluj-Napoca

Country: Romania

- academic management

Assistant professor

Faculty of Biology and Geology, Babeş-Bolyai University [2012 – Current]

Address: 44. Republicii (Gh. Bilaşcu) st., 400015 Cluj-Napoca (Romania) - <http://bioge.ubbcluj.ro>

City: Cluj-Napoca

Country: Romania

Teaching activities:

- courses: Biophysics (undergraduate level, in Hungarian, from 2012), Animal ecophysiology (undergraduate level, in Hungarian, from 2012), Medical molecular biology (graduate level, in Hungarian, from 2014 to 2017), Medical molecular biology (graduate level, in English, from 2017)
- practice: Biophysics (undergraduate level, in Hungarian, from 2012), Biochemistry (undergraduate level, in Hungarian, from 2012 to 2020), Animal and human physiology (undergraduate level, in Hungarian, from 2012 to 2019), Animal ecophysiology (undergraduate level, in Hungarian, from 2012 to 2020), Medical molecular biology (graduate level, in Hungarian, from 2014 to 2017), Medical molecular biology (graduate level, in English, from 2017)

Graduate student instructor

Faculty of Biology and Geology, Babeş-Bolyai University [2008 – 2012]

Address: 44 Republicii (Gh. Bilaşcu) st., 400015 Cluj-Napoca (Romania) - <http://bioge.ubbcluj.ro>

City: Cluj-Napoca

Country: Romania

Teaching activities:

- courses: Biophysics (undergraduate level, in Hungarian, from 2007 to 2012), Animal ecophysiology (undergraduate level, in Hungarian, from 2011 to 2012)
- practice: Biophysics (undergraduate level, in Hungarian, from 2008 to 2012), Biochemistry (undergraduate level, in Hungarian, from 2008 to 2012), Animal and human physiology (undergraduate level, in Hungarian, from 2008 to 2012), Animal ecophysiology (undergraduate level, in Hungarian, from 2011 to 2012).



Full-time PhD student

Babeş-Bolyai University [2004 – 2008]

Address: 1 M. Kogălniceanu st., 400084 Cluj-Napoca (Romania) - <https://www.ubbcluj.ro>

City: Cluj-Napoca

Country: Romania

Member in science grants

Teaching activities:

- practice: Biophysics (undergraduate level, in Hungarian, from 2004 to 2008), Biochemistry (undergraduate level, in Hungarian, from 2004 to 2008)

designer

S. C. Colorspan S. A. (defunct) [2002 – 2003]

Address: 14 Lemnarilor st., 535600 Odorheiu Secuiesc (Romania)

City: Odorheiu-Secuiesc

Country: Romania

- chipboard and MDF furniture design

EDUCATION AND TRAINING

PhD in Biology

Babeş-Bolyai University [2004 – 2010]

Address: 1 M. Kogălniceanu st., 400006 Cluj-Napoca (Romania)

www.ubbcluj.ro

Level in EQF : EQF level 8

Thesis title: Genetic Mechanisms Involved in the Heterogeneous Methicillin Resistance of *Staphylococcus aureus*

Scientific advisor: prof. Octavian Popescu, member of the Romanian Academy

main topic: bacterial genetics, molecular biology

MSc in Cell Biology and Molecular biotechnology

Babeş-Bolyai University [2003 – 2004]

Address: 1 M. Kogălniceanu st., 400006 Cluj-Napoca

www.ubbcluj.ro

Level in EQF : EQF level 7

Advanced topics in cellular and molecular biology, skills in biological research



BSc in Biology

Babeş-Bolyai University [1998 – 2002]

Address: 1 M. Kogălniceanu st., 400006 Cluj-Napoca

www.ubbcluj.ro

Level in EQF : EQF level 6

Basic topics in Biology

High school graduation diploma

"Tamási Áron" High School [1994 – 1998]

Address: 32 Baróti Szabó Dávid st., 535600 Odorheiu Secuiesc (Romania)

<http://www.gimi.ro>

Level in EQF : EQF level 4

LANGUAGE SKILLS

Mother tongue(s):

Hungarian

English

LISTENING: C2 **READING:** C2 **WRITING:** B2

SPOKEN PRODUCTION: B2 **SPOKEN INTERACTION:** B2

Romanian

LISTENING: C2 **READING:** C2 **WRITING:** C2

SPOKEN PRODUCTION: C2
SPOKEN INTERACTION: C2

DIGITAL SKILLS

Efficient internet surfing / Mail, Messenger, Skype / Zoom / Microsoft Office: Word, Excel, Power Point, Outlook / Basic Linux / good knowledge of Microsoft Windows

ORGANISATIONAL SKILLS

Leadership

presently vice-dean of the Faculty of Biology and Geology responsible for human resources, teaching and research-development-innovation

Organizing international conferences

- member of 11th European Bat Research Symposium organizing committee in 2008
- executive co-chair of 35th National Conference of Scientific Students' Associations ("OTDK") held in 2021

Academic management course

- attended at academic management course "Public policy carried out by the operationalization of CPUM "(Center for Professionalization of University Management)" in 2018

Board membership

- Hungarian Department of Biology and Ecology, Faculty of Biology and Geology, Babeş-Bolyai University
- council of the Faculty of Biology and Geology, Babeş-Bolyai University



JOB-RELATED SKILLS

Mentoring

16 supervised BSc theses, 8 supervised MSc theses

Technical skills

experience in using the following instruments: optical microscope, binocular stereo microscope, microbiological incubator, spectrophotometer, NanoDrop, thermocycler, electrophoresis apparatus, gel documenting system, electroporation apparatus, ultrapure water generator, microtiter plate reader, GPS, ultrasound detector

Experience in higher education accreditation process

2014 - active participation in the accreditation process of the Medical biology (teaching language: Hungarian) master degree program

2018 - coordinator of the reaccreditation process of the Medical biology (teaching language: Hungarian) master degree program

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- 12 years teaching experience
- good interpersonal communication and listening skills, I am reliable and punctual
- attended at Personal management and communication course organized by The Hungarian University Federation of Cluj (FUMC - KMEI) in 2009

SCIENTIFIC REVIEWER

Scientific reviewer

- Aquaculture, Aquarium, Conservation & Legislation (ISSN 1844-9166).
- Animal Biology & Animal Husbandry (ISSN 2067-6344).
- Studia Universitatis Babeş-Bolyai, ser. Biologia (print: ISSN 1221-8103, online: ISSN 2065-9512)
- Microbial Drug Resistance (print: ISSN 1076-6294, online: ISSN 1931-8448)
- Acta Biologica Marisiensis (print: ISSN 2601-6141, online: ISSN 2668-5124)
- Antibiotics (ISSN: 2079-6382)
- Applied Sciences (ISSN:2076-3417)

NETWORKS AND MEMBERSHIPS

Memberships

Member of Romanian Society of Biochemistry and Molecular Biology

Member of "Apáthy István Egyesület" Association

Secretary of Pando Association



PUBLICATIONS

Selected publications

Jakab, E., Colcieru, M., Jakab, R. I., Gabri, E. E., Lázár, Cs. H., Török, E., Kremmer, B., Mészáros, T., J., Katona, Á., Fazakas, E., Coldea, L., Popescu, O. (2019): Screening of *mecI* gene in *Staphylococcus* strains isolated in Transylvania region of Romania. *Microbial Drug Resistance* 25(5):639-643. **IF: 2.296 AIS: 0.591**

Gabri, EE, **Jakab, E.** (2015): Investigation of methicillin-resistant *Staphylococcus aureus* strains from Satu Mare using molecular biology techniques. *Studia Universitatis Babeş-Bolyai, ser. Biologia* 60(Sp. Iss):29-32.

Marta, B., Potara, M., Iliut, M., **Jakab, E.**, Radu, T., Imre-Lucaci, F., Katona, G., Popescu, O., Astilean, S. (2015): Designing chitosan-silver nanoparticles-graphene oxide nanohybrids with enhanced antibacterial activity against *Staphylococcus aureus*. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 487(2015):113-120. **IF: 2.760 AI:0.592.**

Marta, B., **Jakab, E.**, Potara, M., Simon, T., Imre-Lucaci, F., Barbu-Tudoran, L., Popescu, O., Astilean, S (2014): Pluronic-coated silver nanoprisms: Synthesis, characterization and their antibacterial activity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 441(2014):77-83. **IF: 2.752 AI: 0.607.**

Ponta, O., **Jakab, E.**, Burda, I., Tunyagi, A., Silaghi, A., Simon, S (2012): AFM investigation of morphological changes to *Staphylococcus aureus* surface induced by AgNO₃ and oxacillin addition. *Studia Universitatis Babeş-Bolyai, ser. Chemia* 57(4):157-166. **IF: 0.129 AIS: 0.0154.**

Potara, M., **Jakab, E.**, Damert, A., Popescu, O., Canpean, V., Astilean, S. (2011): Synergistic antibacterian activity of chitosan-silver nanocomposites on *Staphylococcus aureus*. *Nanotechnology* 22 135101. **IF: 3.979 AIS: 1.236.**

Török, E., **Jakab, E.** (2010): Molecular biology studies on *Staphylococcus aureus* strains originated from the Municipal Hospital, Marghita. *Acta Scientiarum Transylvanica, ser. Biologia* 18(1):22-37.

Colcieru, M., **Jakab, E.**, Hilma, G., Popescu, O (2010): Identification of methicillin-resistant, coagulase-negative staphylococcus strains using the API Staph commercial system. *Studia Universitatis Babeş-Bolyai, ser. Biologia* 55(2):73-79.

Cătănaş, C., Mogoş, M., Horvath, D., **Jakab, E.**, Rus, E. M., Marian, I. O. (2009): Electrical Characteristics of a biobattery with *Staphylococcus aureus*. *Studia Universitatis Babeş-Bolyai, ser. Chemia* 54(3):31-36. **IF: 0.086 AIS: 0.0154.**

Jakab, E., Popescu, O. (2008): Preliminary study of *mecA* region of methicillin-resistant *Staphylococcus aureus*. *Acta Scientiarum Transylvanica, ser. Biologia* 16 (3):39-52.