

PERSONAL INFORMATIONS

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WORK EXPERIENCE

- 2018- present **Research Scientist**
INCDTIM, Department of Molecular and Biomolecular Physics, Cluj-Napoca, Romania
- 2017-2018 **Research Scientist**
TeraCrystal SRL, Cluj-Napoca, Romania
- 2010-2016 **Postdoctoral Researcher**
Okinawa Institute of Science and Technology (OIST), Japan
Trans-Membrane Trafficking Unit (prof. Fadel A. Samatey)
- 2000-2007 **Junior Researcher**
University of Konstanz, Germania
Membrane Protein Folding Lab (prof. Joerg. H. Kleinschmidt)
- 1995-1999 **Biology Teacher**, Liceul Nicolae Bălcescu, Cluj-Napoca, Romania

EDUCATION & TRAINING

- 2000-2007 **Ph.D (Dr. rer. nat)**
University of Konstanz, Germania
- 1999-2000 **International Training Course Fellow (Molecular Biology)**
Biological Research Centre, Szeged, Hungary
- 1997-1998 **M.Sc., Cell and Molecular Biology**,
Babes-Bolyai University, Cluj-Napoca, Romania
- 1990-1995 **B.Sc., Biology**,
Babes-Bolyai University, Cluj-Napoca, Romania

KEY SKILLS

Mother tongue Romanian

Other languages

English
German

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
B2	C1	B2	B2	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Research & technical skills

- **protein expression in *E. coli*:**
expression vector cloning, site-directed mutagenesis, DNA assembly cloning
- **bacterial cell culture (*E. coli* and *Salmonella*)** on large scale using bioreactors
- **protein purification (membrane and soluble)** by AKTA systems
- **membrane protein handling:**
detergent screening, reconstitution into liposomes, site-directed spin labelling
- **protein characterization by biochemical & biophysical methods:**
SEC-MALS, spectroscopy (UV/Vis, CD, fluorescence),
isothermal titration calorimetry (ITC),
Western blot, SDS & BN-PAGE, SDS-PAGE gels densitometry
- **protein crystallization:**
screening by Mosquito, crystals handling, crystal optimization techniques,
protein crystals data collection using in-house Rigaku X-ray equipment
- **active pharmaceutical ingredients (APIs) crystallization and characterization:**
solid form screening, solubility assessment, crystallization, co-crystallization, dissolution rate determination

Computer skills

- **Databases:** NCBI, UniProt, RCS PDB, Proteopedia.org
- **Bioinformatics tools:** EMBL-EBI, ExPASy, TOPCONS, JPred, ConSurf-DB
- **Molecular graphics:** PyMol, Jmol
- **Data analysis:** IgorPro
- **X-ray diffraction** FullProfSuite, Mercury, CCP4

Other professional skills

- design of experiments
- science communication skills
- team work
- teaching and training
- management and organisational abilities

OTHER INFORMATIONS

Conferences & Workshops

6 international conferences and 5 workshops

Oral presentations

3 for international conferences, 1 for a workshop, and 30 for group meetings

Science metrics

Articles ISI: **6**

Hirsch index: **3**

Citations ISI: **156**