

CURRICULUM VITAE

Family name: IORGA
Name: Bogdan
Scientific title: Ph.D. (biophysics)



Affiliation: University of Bucharest, Faculty of Chemistry,
 Department of Physical Chemistry
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EDUCATIONAL BACKGROUND

- October 2004:** Ph.D. (European doctorate – Academy of Montpellier, France)
 Mention: « Très Honorable »
<http://www.sfbiophys.org/resumeIORGA.html>
- 2001-2004:** Ph.D. student (European doctorate program) Montpellier–II University, France
Research field: Biological, Biochemical and Biophysical science for Human Health
Project: Mechanochemical coupling in skeletal myofibrils
Lab: Enzymology – Molecular Mechanisms and Genetic Control (INSERM-U128)
Research Team: Enzymatic mechanisms – muscles and pathologies
Ph.D. supervisor: Dr Franck TRAVERS, DR CNRS (France)
Ph.D. Co-supervisors: Dr Corinne LIONNE, CR CNRS (France); Prof Dr Michael Andrew GEEVES (United-Kingdom)
Ph.D. referees: Dr Chiara TESI, Associated Prof (Italy); Prof. Dr Med Gerardus STIENEN (The Netherlands)
- June 2002:** EMBO Summer School, Transient Kinetics Applied to Biological Macromolecules, University of Kent at Canterbury, UK
- June 1996:** M.Sc., Master degree in Biophysics – Diploma (University of Bucharest, Romania)
Master degree thesis: Fluorescence quenching study of chlorophyll-a by β -carotene in benzene
Master degree grade: 10.00 (10 out of 10, on the scale 1 to 10)
- 1995-1996:** Graduated student (Master program in biophysics)
 Faculty of Physics, University of Bucharest, Romania
Profile: Physics
Major: Biophysics
- June 1995:** University degree in Physics – Diploma (University of Bucharest, Romania)
Graduation thesis: Spectrophotometrical study of chlorophyll-a species in methanol aqueous solutions
Graduation grade: 9.95 (9.95 out of 10, on the scale 1 to 10)
- 1990-1995:** Undergraduate student
 Faculty of Physics, University of Bucharest, Romania
Profile: Physics
Major: Physics
- 1986-1990:** High-School student
 "Gh. M. Murgoci" Theoretical High-School, Braila, Romania
Profile: Mathematics-Physics
Baccalaureate grade: 9.50 (9.50 out of 10, on the scale 1 to 10)

DIDACTIC PUBLICATIONS

1. Iorga G., V. **Iorga B.** and Paun V. (2005) "Thermodynamics and Molecular Physics – Experimental works" – experimental protocols and student notebook, *University Press, Bucharest, Romania* (ISBN: 973-737-116-X).
2. Danciulescu C., **Iorga B.** and Gughea G. (2000) "Physics. Electromagnetism" – textbook, experimental protocols and student notebook, *University Press, Bucharest, Romania* (ISBN: 973-575-470-3).
3. Cioaca C. and **Iorga B.** (2000) "Fundamentals of electromagnetism and optics" – textbook, *University Press, Bucharest, Romania* (ISBN: 973-575-428-2).
4. Plosceanu C., **Iorga B.** and Gughea G. (1999) "Optics – collection of problems and questions" – questions for students, *University Press, Bucharest, Romania* (ISBN: 973-575-305-7).

DIDACTIC ACTIVITY**Qualifications:**

- Lecturer in University of Bucharest, Faculty of Chemistry (Romania) – in present
- Maître de conférences (section 64), ID: 05264158940 (France)
- Maître de conférences (section 74), ID: 05274158940 (France)

Teaching:

Biophysics, Muscle Physiology, Cardiac Physiology and Pathophysiology, General Physics.

SCIENTIFIC PUBLICATIONS

1. **Iorga B.**, Neacsu C.D., Neiss W.F., Wagener R., Paulsson M., Stehle R., Pfitzer G. (2011) "[Micromechanical function of myofibrils isolated from skeletal and cardiac muscles of the zebrafish](#)", *The Journal of General Physiology* (ISSN: 0022-1295), Vol.137(3):255-270.
[ISI impact factor in 2009: 4.260]
[CNCSIS evaluation - physiology: 0022-1295, red zone]
2. Stehle R., **Iorga B.** (2010) "[Kinetics of cardiac sarcomeric processes and rate-limiting steps in contraction and relaxation](#)", *J Mol Cell Cardiol* (ISSN: 0022-2828), Vol.48(5):843-850.
[ISI impact factor in 2009: 4.965]
[CNCSIS evaluation - cardiac_cardiovascular: 0022-2828, red zone]
3. Stehle R., Solzin J., **Iorga B.**, Poggesi C. (2009) "[Insights into the kinetics of Ca²⁺-regulated contraction and relaxation from myofibril studies](#)", *Pflugers Archives – European Journal of Physiology* (ISSN: 0031-6768), Vol.458(2):337-57.
[ISI impact factor in 2009: 3.695]
[CNCSIS evaluation - physiology: 0031-6768, red zone]
4. **Iorga B.**, Blaudeck N., Solzin J., Neulen A., Stehle I., Lopez-Davila A. J., Pfitzer G., Stehle R. (2008) "[Lys184 deletion in troponin I impairs relaxation kinetics and induces hypercontractility in murine cardiac myofibrils](#)", *Cardiovascular Research* (ISSN: 0008-6363), Vol. 77:676-686.
[ISI impact factor in 2008: 5.947]
[CNCSIS evaluation - cardiac_cardiovascular: 0008-6363, red zone]
5. Roels B., Reggiani C., Reboul C., Lionne C., **Iorga B.**, Obert P., Tanguy S., Gibault A., Jouglia A., Travers F., Millet G., Candau R. (2008) "[Paradoxial effects of endurance training and chronic hypoxia](#)

- [on soleus myofibrillar ATPase activity](#)", *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology* (ISSN: 0363-6119), Vol. 294(6):R1911-1918.
[ISI impact factor in 2008: 3.272]
[CNCSIS evaluation - physiology: 0363-6119, yellow zone]
6. Solzin J., **Iorga B.**, Sierakowski E., Gomez-Alcazar D. P., Ruess D. F., Kubacki T., Zittrich S., Blaudeck N., Pfitzer G., Stehle R. (2007) "[Kinetic mechanism of the Ca²⁺-dependent switch-on and -off of cardiac troponin in myofibrils](#)", *Biophysical Journal* (ISSN: 0006-3495), Vol. 93(11):3917-3931.
[ISI impact factor in 2007: 4.627]
[CNCSIS evaluation - biophysics: 0006-3495, red zone]
7. Stehle R., **Iorga B.**, Pfitzer G. (2007) "[Calcium regulation of troponin and its role in the dynamics of contraction and relaxation](#)", *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology* (ISSN: 0363-6119), Vol. 292(3):R1125-R1128.
[ISI impact factor in 2007: 3.661]
[CNCSIS evaluation - physiology: 0363-6119, yellow zone]
8. **Iorga B.**, Adamek N., Geeves M. A. (2007) "[The slow skeletal muscle isoform of myosin shows kinetic features common to smooth and non-muscle myosins](#)", *Journal of Biological Chemistry* (ISSN: 0021-9258), Vol. 282(6):3559-3570.
[ISI impact factor in 2007: 5.581]
[CNCSIS evaluation – biochemistry_molecular: 0021-9258, red zone]
9. Stehle R., Solzin J., **Iorga B.**, Gomez D., Blaudeck N., Pfitzer G. (2006) "[Mechanical properties of sarcomeres during cardiac myofibrillar relaxation: stretch-induced cross-bridge detachment contributes to early diastolic filling](#)", *J. Muscle Res. Cell Motil.* (ISSN: 0142-4319), Vol. 27:423-434.
[ISI impact factor in 2006: 0.944]
[CNCSIS evaluation – cell_biology: 0142-4319, blue zone]
10. **Iorga B.**, Candau R., Travers F., Barman T., Lionne C. (2004) "[Does phosphate release limit the ATPase of relaxed soleus myofibrils? Evidence that \(A\)M·ADP·P_i states predominate on the cross-bridge cycle](#)", *J. Muscle Res. Cell Motil.* (ISSN: 0142-4319), Vol. 25 (4-5):367-378.
[ISI impact factor in 2004: 1.721]
[CNCSIS evaluation – cell_biology: 0142-4319, blue zone]
11. Candau R., **Iorga B.**, Travers F., Barman T., Lionne C. (2003) "[At physiological temperatures the ATPase rates of shortening soleus and psoas myofibrils are similar](#)", *Biophysical Journal* (ISSN: 0006-3495), Vol. 85:3132-3141.
[ISI impact factor in 2003: 4.463]
[CNCSIS evaluation - biophysics: 0006-3495, red zone]
12. Lionne C., **Iorga B.**, Candau R., Travers F. (2003) "[Why choose myofibrils to study muscle myosin ATPase?](#)", *J. Muscle Res. Cell Motil.* (ISSN: 0142-4319), Vol. 24 (2-3):139-148.
[ISI impact factor in 2003: 1.297]
[CNCSIS evaluation – cell_biology: 0142-4319, blue zone]
13. Lionne C., **Iorga B.**, Candau R., Piroddi N., Webb M. R., Belus A., Travers F., Barman T. (2002) "[Evidence that phosphate release is the rate limiting step on the ATPase of psoas myofibrils prevented from shortening by chemical cross-linking](#)", *Biochemistry* (ISSN: 0006-2960), Vol. 41:13297-13308.
[ISI impact factor in 2002: 4.064]
[CNCSIS evaluation – biochemistry_molecular: 0006-2960, yellow zone]
14. Semenescu G., Cioaca C., **Iorga B.** and Gughea G., (2002) "[Phenomenological considerations rely on the double mixed electric layer model at the electrode-electrolyte interface](#)", *Acta Chimica Slovenica* (ISSN: 1318-0207), 49:743-754.
[ISI impact factor in 2002: 0.538]

[CNCSIS evaluation – chem_multi: 1318-0207, yellow zone]

15. Gazdaru D. M. and **Iorga B.**, (2002) "[Spectrophotometric analysis of the mixtures of photosynthetic pigments](#)", *Journal of Optoelectronics and Advanced Materials* (ISSN: 1454-4164), vol.4, no.1:121-129.

[ISI impact factor in 2002: 0.538]

[CNCSIS evaluation – mat_sc_multidisciplin: 1454-4164, blue zone]

16. Semenescu G., Cioaca C., **Iorga B.** and Gughea G., (2002) "[Mediator role of some organic substances in the charge transfer on metal-electrolyte interface](#)", *Acta Chimica Slovenica* (ISSN: 1318-0207), 49:121-138.

[ISI impact factor in 2002: 0.538]

[CNCSIS evaluation – chem_multi: 1318-0207, yellow zone]

17. Gazdaru D. M. and **Iorga B.**, (2001) "[Characterization of the quenching of chlorophyll a fluorescence by \$\beta\$ -carotene using the non-linear analysis](#)", *Photosynthetica* (ISSN: 0300-3604), 39, (4): 607-609.

[ISI impact factor in 2001: 0.807]

18. Semenescu G., Cioaca C. and **Iorga B.**, (2000) "[A new phenomenological model describing conduction in electrolyte solutions](#)", *Acta Chimica Slovenica* (ISSN: 1318-0207), 47:133-141.

[ISI impact factor in 2000: 0.161]

[CNCSIS evaluation – chem_multi: 1318-0207, yellow zone]

19. Gazdaru D. M., **Iorga B.** and Balan P. F., (1998) "Quenching of the chlorophyll-a fluorescence by β -carotene", *Photosynthesis: Mechanism and effects. Vol. 1:483-486. G. Garab, Kluwer Academic Publishers, Dordrecht, (Nedherland).*

SCIENTIFIC ACTIVITY

Expertise in subcellular contractile biotechnology:

- Preparation and functional analysis of isolated subcellular myofibrils from skeletal, myotomal and cardiac muscles (rabbit, guinea pig, mouse, human, zebrafish, Drosophila flies)
- Isolation and micromechanical investigations of subcellular myofibrils from engineered heart tissues (EHT)
- Isolation and micromechanical investigations of partial-permeabilized cardiomyocytes differentiated from induced pluripotent stem (iPS) cells
- Biophysics, kinetics and biochemistry of molecular motors (myosin class II)
- Sarcomeric proteins exchange protocols

Rapid kinetics techniques:

- Force kinetics measurements at subcellular level using the atomic force video-microscopy and the fast solution flows switch technology (University of Cologne, Germany)
- Sinusoidal analysis – cross-bridge nano-perturbational method to explore mechanochemical coupling in contracting myofibrils (Iowa University, USA)
- Rapid-Flow-Quench (INSERM, Montpellier, France and Hi-Tech, Salisbury, UK)
- Stopped-Flow (Hi-Tech, Salisbury, UK and Bio-Logic, France)
- Time-Resolved Pulsed Spectrofluorimetry for life-time measurements (Edinburgh, UK)

Microscopy techniques:

- Optical fluorescence video-microscopy
- Fourier analysis of the sarcomeric optical density

Spectrophotometry:

- Spectrophotometrical studies of the protein folding-unfolding processes

- Spectrophotometrical studies of the intermolecular energy transfer
- Kinetic methods using enzymatic coupled systems

Modeling and image processing:

- Berkeley Madonna, MathCad, LabView, KinetAsist, Origin, GraphPad Prism
- Matrox Inspector, Aquacosmos, Adobe Photoshop, Corel.

Membership:

- Member of the Romanian Society of Pure and Applied Biophysics (SRBPA): 1998 – 2001.
- Member of American Biophysical Society: 2002 – 2004.
- Member of the European Muscle Society: 2002 – present.

Scientific Projects:

- Project director of Köln-Fortune Project – part I & part II: “Funktionelle und biochemische Untersuchungen an isolierten Kardiomyofibrillen aus dem rechtsventrikulären Myokard von Patienten mit Fallot’scher Tetralogie”, 2007-2008 and 2008-2009 (Budget: 53900 eur).
- Principal Investigator in “Imhoff-Stiftung” investment project: “Characterization of the consequences of cardiomyopathy-related mutations in troponin on the Ca²⁺-regulated cross-bridge kinetics studies by sinusoidal force analysis on cardiac myofibrils (sinusoidal analysis method)”, 2007 (Budget: 2166 eur).
- Principal Investigator in “Maria-Pesch Stiftung” investment project: “Characterization of the consequences of cardiomyopathy-related mutations in troponin on the Ca²⁺-regulated cross-bridge kinetics (enhanced video acquisition)”, 2008 (Budget: 3282 eur).
- Responsible with the experimental research activity of the project financed by DFG (Sonderforschungsbereich 612/A2), 2005-2008 and 2009-2012 (extension), Köln, Germany, title: “Analyse sarkomerischer Dysfunktionen bei hypertropher und dilatativer Kardiomyopathie verursacht durch Mutationen des Troponin-Komplexes”, director of the project: Dr. Robert Stehle, co-director: Prof. Med. Gabriele Pfitzer.
<http://www.uni-duesseldorf.de/home/Fakultaeten/Medizin/SFB/Projektbereich-A/A2-Stehle-und-Pfitzer>
- Responsible with the experimental research activity of the project financed by DFG (international consortium, FOR1352-TP09), 2011-2012, Köln, Germany, title: “Structure, Function and Regulation of the Myofibrillar Z-disc Interactome “, director of the project: Dr. Robert Stehle.
<http://gepris.dfg.de/gepris/OCTOPUS/?sessionid=F2F09175953E553895D883F125186B71?module=gepris&task=showDetail&context=projekt&id=175347721>

Invited seminars:

- “Systolic and diastolic sarcomeric mechanisms explored by a mutation in troponin I which co-segregates with familial hypertrophic cardiomyopathy” VU University Medical Center, Amsterdam, The Netherlands, April 24, 2009.
- “Sarcomeric processes underlie the altered cardiac function in a mouse model for cTnI^{ΔK183}-linked hypertrophic cardiomyopathy” Institute of Cellular Biology and Pathology “N. Simionescu”, Bucharest, Romania, March 11, 2009.
- “Sarcomeric mechanism of diastolic dysfunction explored by a mutation in troponin I which co-segregates with familial hypertrophic cardiomyopathy (FHC)” Institute of Cardiology „I. C. C Iliescu”, Fundeni Hospital, Bucharest, Romania, October 16, 2008.
- “Contractile systems in striated muscles” Faculty of Biology, University of Bucharest, Romania, January 17, 2007.
- “Techniques and methods to study myofibrillar contraction and dynamics” Faculty of Chemistry, University of Bucharest, Romania, January 12, 2007.
- “Does phosphate release limit the ATP-ases of soleus myofibrils?” Biosciences Research Forum, University of Kent at Canterbury, UK, April 27, 2004.
- “Techniques and methods used for myofibrillar ATPase activity studies”, Research Center of Molecular Biophysics, University of Bucharest, Romania, January 9, 2003.

Scientific Collaborations:

- With Prof. Dr. med. T. ESCHENHAGEN, *Director of the Institute for Experimental and Clinical Pharmacology and Toxicology in Uniklinik Hamburg-Eppendorf, Germany* – on the functional

- characterization of the engineered heart tissues (artificial muscular constructs) at subcellular level (2010-present).
- With Prof. A. SACHINIDIS, *Institute of Neurophysiology, Uniklinik, Cologne, Germany* – on the functional characterization of cardiomyocytes induced from iPS cells (2010-present).
 - With Prof. M. PAULSON, *Faculty of Medicine, Institute of Biochemistry, University of Cologne, Germany* – on the micromechanical properties characterization of the myofibrils isolated from skeletal muscle of adult Zebrafish (2008-present).
 - With Prof. W. NEISS, *Faculty of Medicine, Institute of Anatomy, University of Cologne, Germany* – on the structural aspects of skeletal and cardiac zebrafish sarcomeres investigated by electron microscopy (2009-present)
 - With Prof. M. KAWAI, *Faculty of Medicine, University of Iowa, USA* - on the development and implementation of the sinusoidal analysis as a high resolution method for correlating biochemical reactions with physiological processes in skeletal and cardiac myofibrils (2006-present).
 - With Prof. Dr. med. K. BROCKMEIER, *Director of the Klinik für Kinderkardiologie, UniKlinik, Köln, Germany* and Prof. Dr. BENNINK, *Klinik und Poliklinik für Herz- und Thoraxchirurgie, UniKlinik, Köln, Germany* - on the supervision of the medical aspect related to patients with cardiac congenital diseases (2007-2009).
 - With Prof. J. SPARROW, *Faculty of Biology, University of York, UK* – on the micromechanical properties characterization of the myofibrils isolated from the IFM of *Drosophila* (2007-2008).
 - With Prof. M.A. GEEVES, *Department of Biosciences, University of Kent, Canterbury, UK* - on the study of the ATPase kinetics of slow MHC-I isoform extracted from rabbit soleus using micrograms investigation techniques and correlation with the results obtained using soleus myofibrils (2004, 2005).
 - With Dr. T. BARMAN, *INSERM U128, Montpellier, France* and Dr. C. LIONNE, Dr. F. TRAVERS, *CNRS UMR-5121, Institute of Biology UM-I, Montpellier, France* - on the study of the ATPase kinetics myofibrils and correlations between mechanical and chemical events during shortening (2001-2004).
 - With Dr. R. STEHLE and Prof. G. PFITZER, *Institute of Vegetative Physiology, University of Köln, Germany* - on the data analysis of the kinetics of the intrinsic Trp-fluorescence using Stopped-Flow techniques; computer simulation concerning cross-bridge detachment-reattachment kinetics; force kinetics measurements at myofibrillar level; functional characterization of cardiomyopathy associated mutations of troponin-I (2003, 2005-present).
 - With Prof. R. CANDAU, *UFR STAPS, University-I of Montpellier, France* - concerning the physiological aspects of muscle contraction (2001-2004).
 - With Dr. C. POGESSI, Dr. C. TESI, and Dr. A. BELUS, *University of Florence, Italy* - on the study of the force development by native and cross-linked myofibrils; general issues on myofibrils (2001-2003, 2007).
 - With Dr. A. LACAMPAGNE and Dr. O. CAZORLA, *INSERM U390, Montpellier, France* - on the study of myofibrils shortening velocity measurements using SARCO system (2002).
 - With Dr. M. R. WEBB, *NIMR, Mill Hill, London, UK* - on the study of the phosphate release during ATPase activity of myosin and myofibrils, using Phosphate Binding Protein (MDCC-PBP) system as fluorescence probe for free-phosphate with Stopped-Flow techniques (2001-2002).
 - With Dr. C. CRAESCU, *INSERM U350, Institut Curie, Orsay, France* - on the study of intermediates in protein denaturation using fluorescence probes and time-resolved fluorescence techniques (2000-2001).
 - With Prof. A. POPESCU and Lector Dr. D. GAZDARU, *Department of Biophysics, Faculty of Physics, University of Bucharest, Romania* - on the study of the protein folding-unfolding processes using time-resolved fluorescence techniques (1998-2000).

Participations to Scientific Conferences:

- Deutsche Physiologische Gesellschaft, *March 26-29 2011, Regensburg, Germany*, (oral presentation in the section “Methods in Physiology”).
- DFG meeting (FOR1352-TP09), *January 28-29 2011, Bonn, Germany* (oral presentation)

- „Sonderforschungsbereich Meeting (SFB) 612”, *Wermelsk, Germany, May 14-15, 2010* (oral presentation).
- „First European Zebrafish PI Meeting”, *Padova, Italy, March 18-21, 2010* (poster)
- „Sonderforschungsbereich Meeting (SFB) 612”, *Wermelsk, Germany, 5 Decembrie, 2009* (oral presentation).
- 38th European Muscle Congress, *Lille, France, September 12-16, 2008*, (poster).
- 10th National Congress on Computational Mechanics, *Columbus, Ohio, USA, July 16-19, 2009* (poster).
- 53rd Annual Meeting of the Biophysical Society, *February 28–March 4, Boston, MA, USA, 2009* (poster)
- Symposium “Herz-Kreislaufwissenschaften”, *Cologne, Germany, November 25, 2008* (supervisor PhD student – oral presentation, poster).
- 37th European Muscle Congress, *Oxford, UK, September 13-16, 2008*, (invited lecturer in the session “Cardiac Contractility” – oral presentation, poster).
- Deutsche Physiologische Gesellschaft, *March 2-5, Köln, Germany, 2008* (oral presentation, 3 posters and member in the organization committee).
- Meeting of Sonderforschungsbereich (SFB) 612, *Wermelsk, Germany, May, 2007*, (oral presentation).
- Alpbach Workshop on Molecular Motors, *Alpbach, Tirol, Austria, March 24-30, 2007*, (oral presentation and poster).
- 51th Annual Meeting of the Biophysical Society, *Baltimore, Maryland, U.S.A., March 3-7, 2007*, (poster).
- Meeting of Sonderforschungsbereich (SFB) 612, *Wermelsk, Germany, December 4-5, 2006*.
- Herztransplantation Conference 2006/2007, *Köln, Germany, November, 22nd, 2006*.
- Erstes gemeinsames wissenschaftliches Symposium der Medizinischen Fakultäten der Universitäten Köln und Bonn, *Bonn, Germany, October 4th, 2006*, (two posters).
- 35rd European Muscle Congress, *Heidelberg, Germany, September 9-12, 2006*, (two posters).
- 6th International Muscle Energetics Conference (IMEC 2006), *Banff, Canada, July 22-27, 2006* (poster).
- Meeting of Sonderforschungsbereich (SFB) 612, *Wermelsk, Germany, April 7-8, 2006* (oral presentation).
- Deutsche Physiologische Gesellschaft, *March 26-29, München, Germany, 2006* (poster).
- Meeting of Sonderforschungsbereich (SFB) 612, *Wermelsk, Germany, November 4-5, 2005*.
- 7th Cologne Conference on Heart Failure – Molecular Basis for New Therapeutic Options, *June 24-25, Cologne, Germany, 2005*.
- 49th annual Meeting of the Biophysical Society, *February 12-16, Long Beach, CA, USA, 2005* (poster).
- 33rd European Muscle Congress, *Elba, Italy, September 19 – 23, 2004*, (two posters).
- Alpbach Workshop on Molecular Motors, *Alpbach, Tirol, Austria, March 27-April 2, 2004*, (poster).
- Meeting of the European Research Network, *Alpbach, Tirol, Austria, March 27-April 2, 2004*, (oral presentation and poster).
- 10th International Congress of the Researchers in Physical and Sportive Activities, *Toulouse, France, October 30 - November 1st, 2003*, (poster).
- 32nd European Muscle Congress, *Montpellier, France, September 7-10, 2003*, (two posters).
- 4th European Biophysics Congress, *Alicante, Spain, July 5-9, 2003*, (poster).
- 22nd Annual Meeting of the Alternative Muscle Club, *Leeds, University of Leeds, UK, April 15-17, 2003*, (oral presentation and poster).
- Meeting of the European Research Network, *Canterbury, University of Kent, UK, April 11-14, 2003*, (oral presentation and two posters).
- Mid-term Review of the European Research Network, *Amsterdam, The Netherlands, September 17-19, 2002*, (oral presentation).
- 31st European Muscle Congress, *Lunteren, The Netherlands, September 14-17, 2002*, (two posters).

- Meeting of the European Research Network, *Monte Ortone, Italy, March 21-24, 2002*, (oral presentation and poster).
- 46th Annual Meeting of the Biophysical Society, *San Francisco, California, U.S.A., February 23-27, 2002*, (poster).
- International Workshop "New Biophysical Methods in Biology and Medicine", *Neptun, Romania, September 26-30, 2000*, (participant).
- Yearly Scientific Session of Faculty of Physics University of Bucharest, *Bucharest, Romania, May 25-26, 2000*, (oral presentation).
- The Fifth National Conference of Biophysics, *Targu-Mures, Romania, November 5-6, 1999*, (poster).
- The XIth International Congress of Photosynthesis, *Budapest, Hungary, August 17-22, 1998*, (poster).
- Annual Conference of European Society for New Methods in Agriculture Research, *Busteni, Romania, September 1996*, (poster).

Last update: March 2011