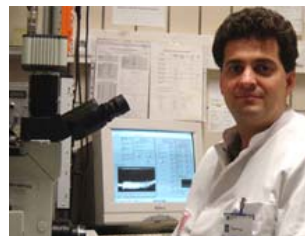


CURRICULUM VITAE

Nume si prenume: IORGA Bogdan

Email: iorgabogdan@yahoo.com

Locul si data nasterii: Braila, 17 februarie 1972



Titluri stiintifice: PhD (doctorat european in biostiinte, 2004), MSc (biofizica, 1996)

Pozitia actuala: lector universitar

Domenii de competenta:

- biofizica si biochimia sistemelor contractile striate
- mecanica cardiaca
- fiziologie si patofiziologie cardiaca
- tehnologia miofibrilara
- biofizica nano-motoarelor moleculare
- preparare de miofibrile subcelulare din biopsii si ectomii ale muschiului scheletic si cardiac
- studii spectrofotometrice ale proceselor de pliere-depliere a proteinelor
- studii spectrofotometrice ale transferului intermolecular de energie
- metode enzimatic cuplate
- microscopie de forta atomica si tehnologia activarii si relaxarii elementelor contractile subcelulare
- analiza sinusoidala nano-perturbationala
- analiza conversiei energiei chemo-mecanice in sarcomere
- Rapid-Flow-Quench
- Stopped-Flow
- Time-Resolved Pulsed Spectrofluorimetry
- video-microscopie de fluorescenta
- microscopie optica in contrast de faza si analiza Fourier a densitatii optice a sarcomerelor

Cursuri tinute: Biofizica

Organizatii profesional stiintifice: membru al „European Muscle Society”

Informatii suplimentare:*- Premii:*

Premiul Universitatii din Bucuresti pentru 2 articole publicate in 2007 in:

1. Biophysical Journal (ISSN: 0006-3495), Vol. 93(11):3917-3931
2. American Journal of Physiology – Regulatory, Integrative and Comparative Physiology (ISSN: 0363-6119), Vol. 292(3):R1125-R1128

- Calificari:

1. Maître de conférences (sectiunea 64: biochimie si biologie moleculara) - numar de identificare a calificarii: 05264158940 din 02/02/2005, Franta
2. Maître de conférences (sectiunea 74: stiintele si tehnicile ale activitatii fizice si sportive) - numar de identificare a calificarii: 05274158940 din 03/02/2005, Franta
3. EMBO Summer School (2002), „Transient Kinetics Applied to Biological Macromolecules”, Universitatea din Kent la Canterbury, Marea Britanie

- Proiecte finantate:

1. Director de proiect (Köln-Fortune Projekt): “Funktionelle und biochemische Untersuchungen an isolierten Kardiomyofibrillen aus dem rechtsventrikulären Myokard von Patienten mit Fallot’scher Tetralogie” – partea I, 2007-2008 (Köln, Germania).
2. Director de proiect (Köln-Fortune Projekt): “Funktionelle und biochemische Untersuchungen an isolierten Kardiomyofibrillen aus dem rechtsventrikulären Myokard von Patienten mit Fallot’scher Tetralogie” – partea a II-a, 2008-2009 (Köln, Germania).
3. Coordonator principal in proiectul de investitii “Imhoff-Stiftung”: “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”, 2008 (Köln, Germania).
4. Coordonator principal in proiectul de investitii “Maria-Pesch Stiftung”: “Characterization of the consequences of cardiomyopathy-related mutations in troponin on the Ca²⁺-regulated cross-bridge kinetics”, 2009 (Köln, Germania).
5. Membru in echipa de cercetare in proiectul finantat de DFG (Sonderforschungsbereich 612/A2): „Funktionelle Charakterisierung Kardiomyopathie-relevanter Mutationen auf Troponin I und T“, director de proiect: Dr. Robert Stehle, co-director: Prof. Gabriele Pfitzer, 2005-2012 (Köln, Germania).
6. Membru in echipa de cercetare in proiectul finantat de Uniunea Europeana – FP5 (Research Training Network, HPRN-CT-2000-00091): „Energy Transduction in Muscle and Related Motility System”, director de proiect: Dr. Franck Travers (Montpellier, Franta), networking manager: Dr. Martin Webb (Londra, Anglia), 2001-2004.

- Seminarii invitate:

1. “Systolic and diastolic sarcomeric mechanisms explored by a mutation in troponin I which co-segregates with familial hypertrophic cardiomyopathy” Centrul Medical Universitar, Amsterdam, Olanda, 24 Aprilie 2009
2. “Sarcomeric processes underlie the altered cardiac function in a mouse model for cTnI^{AK183}-linked hypertrophic cardiomyopathy” Institutul de Biologie Celulara si Patologie „N. Simionescu”, Bucuresti, Romania, 11 Martie 2009
3. „Sarcomeric mechanism of diastolic dysfunction explored by a mutation in troponin I which co-segregates with familial hypertrophic cardiomyopathy (FHC)” Institutul de Cardiologie „I.C.C Iliescu”, Spitalul Clinic Fundeni, Bucuresti, Romania, 16 Octombrie 2008
4. Lector invitat - „Cardiac Contractility”, 37rd European Muscle Congress, Oxford, Marea Britanie, 13-16 Septembrie 2008
5. Lector invitat - Workshop on Molecular Motors, Alpbach, Tirol, Austria, 24-30 Martie 2007
6. „Contractile systems in striated muscles” Facultatea de Biologie, Universitatea din Bucuresti, Romania, 17 Ianuarie 2007
7. „Techniques and methods to study myofibrillar contraction and dynamics” Facultatea de Chimie, Universitatea din Bucuresti, Romania, 12 Ianuarie 2007
8. “Does phosphate release limit the ATP-ases of soleus myofibrils?” Biosciences Research Forum, Universitatea din Kent la Canterbury, Anglia, 27 Aprilie 2004
9. “Tehnici si metode utilizate in studiile activitatii ATPazice miofibrilare”, Centrul de Cercetare de Biofizica Moleculara, Universitatea din Bucuresti, Bucuresti, Romania, 9 Ianuarie 2003

Lista de lucrari - Carti:

1. Iorga G., V. Iorga B. and Paun V. (2005) “Termodinamica si Fizica Moleculara – Lucrari practice de laborator”, Ed. Universitatii din Bucuresti, Bucuresti, Romania (ISBN: 973-737-116-X).
2. Plosceanu C., Iorga B. and Gughea G., (1999) “Optica – culegere de probleme”, Ed. Universitatii din Bucuresti, Bucuresti, Romania (ISBN: 973-575-305-7).
3. Cioaca C. and Iorga B., (2000) “Elemente de electromagnetism si optica – curs”, Ed. Universitatii din Bucuresti, Bucuresti, Romania (ISBN: 973-575-428-2).
4. Iorga B. (2000) “Electricity Laboratory” in Danciulescu C., Iorga B. and Gughea G. (2000) “Physics. Electricity, magnetism and optics”, Ed. Universitatii din Bucuresti, Bucuresti, Romania (ISBN: 973-575-470-3).

Lista de lucrari - Articole:

1. Stehle R., Solzin J., Iorga B., Poggesi C. (2009) “Insights into the kinetics of Ca²⁺-regulated contraction and relaxation from myofibril studies”, Pflugger Archives – European Journal of Physiology (ISSN: 0031-6768), DOI 10.1007/s00424-008-0630-2. [*factor de impact ISI in 2007: 3.842*]

2. 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. [*factor de impact ISI in anul 2007: 6.127*]
3. 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) “Paradoxical 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:R1911-R1918. [*factor de impact ISI in 2007: 3.661*]
4. Solzin J., Iorga B., Sierakowski E., Gomez-Alcazar D. P., Ruess D. F., Kubacki T., Zittich 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. [*factor de impact ISI in 2007: 4.627*]
5. Stehle R., Iorga B., Pfitzer G. (2007) “The role of troponin Ca²⁺-regulation in dynamics of contraction and relaxation”, *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology* (ISSN: 0363-6119), Vol. 292(3):R1125-R1128. [*factor de impact ISI in 2007: 3.661*]
6. 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. [*factor de impact ISI in 2007: 5.581*]
7. 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. [*factor de impact ISI in 2006: 0.944*]
8. 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. [*factor de impact ISI in 2004: 1.721*]
9. 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. [*factor de impact ISI in 2003: 4.463*]
10. 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. [*factor de impact ISI in 2003: 1.297*]
11. Lionne C., Iorga B., Candau R., Piroddi N., Webb M. R., Belus A., Travers F., Barman T. (2002) "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. [*factor de impact ISI in 2002: 4.064*]

- 12) 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. [*factor de impact ISI in 2002: 0.538*]
- 13) 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. [*factor de impact ISI in 2002: 0.538*]
- 14) 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. [*factor de impact ISI in 2002: 0.538*]
- 15) Gazdaru D. M. and Iorga B., (2001) "Characterization of the quenching of chlorophyll a fluorescence by b-carotene using the non-linear analysis", Photosynthetica (ISSN: 0300-3604), 39, (4): 607-609. [*factor de impact ISI in 2001: 0.807*]
- 16) 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. [*factor de impact ISI in 2000: 0.161*]

Last update,
25.03.2009

Lect. Dr. Bogdan IORGA