

CURRICULUM VITAE

Dr. Constanța Ganea

Profesor universitar

Data și locul nașterii: 22.08.1943, Cincu, jud. Brașov

Telefon: 0040-21-3180765

0040-21-3180862 int 144

Email: cg@biofizica-umfcd.ro

Web: www.biofizica-umfcd.ro/people/cg

STUDII:

1950 -1961 Liceul Doamna Stanca, Făgăraș

1962-1967 Facultatea de Fizică, Universitatea București

1980 Doctor în Fizică, Facultatea de Fizică, Universitatea București

LIMBI STRAINE: engleza, franceza, germana, rusa, neogreaca

EXPERIENȚA PROFESIONALĂ:

Octombrie 1967- Octombrie 1974 Asistent univ. UMF Carol Davila București

Octombrie 1974 - Februarie 1997 Cercet., CP III, II, I, UMF Carol Davila București

Februarie 1997 – Octombrie 2000 Conferențiar univ. UMF Carol Davila București

Octombrie 2000 - prezent Profesor univ. UMF Carol Davila București

Specializări și calificări: Cursul pentru Utilizarea Izotopilor Radioactivi (CUIR) -IFA, Magurele, 3 luni, 1970 Școala Internațională de Radiobiologie Celulară - Brno, Cehoslovacia, 2 săptămâni, 1971; 1990 - 2006, anual 2 săptămâni - 2 luni, Institutul de Biofizică, Centrul de Cercetări Biologice al Academiei Ungare de Științe, Szeged, Ungaria; 1997-1999, 1 - 6 săptămâni/an, Universitatea Montpellier 1, Facultatea de Farmacie, Catedra de Biofizică, Bursa Tempus, Institutul Liber Marie-Haps, Audiologie, Bruxelles, Belgia - 8 zile 1998; din 1994 - prezent, anual 3-4 luni, Institutul de Biofizică Max-Planck, Frankfurt/Main, Germania.

Alte competențe: PC, Word, Excel, Origin, Power Point, Internet, HTML, Adobe etc.

Tehnici cunoscute: spectrofluorimetrie, spectrofluorimetrie stopped-flow, flash fotometrie – masuratori optice și electrice rapide, BLM (membrane lipidice negre), SSM (membrane lipidice pe suport solid), patch clamp.

DOMENII DE CERCETARE:

Apa în sistemele biologice, bioenergetica celulară, transport membranar, bistraturi lipidice (tehnica BLM, tehnica SSM), metoda stopped-flow, proteine retinale (BR, HR, SR), pompe ionice membranare (BR, Na,K-ATPaza), transportori membranari, efect Hofmeister, antioxidanți naturali etc.

Membru al asociațiilor profesionale: SRBPA (EBSA, IUPAB), Societatea Română de Fizică, Registrul Național al Experților din România, Minerva FemmeNet- Max-Planck Society

Membru în colectivul de redacție/referent al revistelor recunoscute național/internațional (ISI)

Theoretical Chemistry Accounts (ISI)

Romanian Biotechnological Letters (ISI)

Romanian Journal of Biophysics (CNCSIS)

Distincții: Profesor Bologna , ANOSR, 2009

EXPERIENȚA ACUMULATĂ ÎN PROGRAME NAȚIONALE/ INTERNAȚIONALE

Director de proiect:

a) Proiecte internaționale

Proiect de cooperare bilaterala Romano-Maghiar, STUDIES ON BIOLOGICAL MEMBRANE STRUCTURES, Finantare ANCS (Romania) NKTH (Ungaria), 2006-2007 cu Inst. de Biofizica din Szeged, Ungaria

b) Proiecte naționale

Proiect **PN II, Idei, nr. 326/2007**, cod CNCISIS 251: Mecanisme complexe de interferenta in patogenia nicotinică a bolilor neurodegenerative – efecte reglatoare la nivel celular și subcelular ale compusilor naturali galantamina și ginkgolida B. Finantare buget 850.000 RON, 2007-2010.

Proiect complex **CEEX 74/2006**: EFECTELE CELULARE SI SUBCELULARE ALE UNOR ANTIOXIDANTI NATURALI IN CONDITII NORMALE SI DE STRESS, Finantare buget, 1.500.000 RON, 2006-2008

Proiect **CNCISIS 614/2006**, Finantare buget, 40.000 RON, 2006

Proiect **CEEX 6109/Hypcum** - Dezvoltarea produselor naturale standadizate pe bază de polifenoli prin studii de biodisponibilitate. Finantare buget 475.000 RON, 2005-2008 (partener P1)

Proiect **CEEX 60/Apocad** – Efectul cadmiului asupra biomembranelor. Implicatii in apoptoza. Finantare buget 150.000 RON, 2005-2008 (partener P1)

Proiect CNCISIS, **Grant CNCISIS nr. 827** : Efectele unor anioni ai seriei Hofmeister asupra unor structuri membranare. Posibile implicații în securitatea alimentară și în farmacologie. Finantare buget 31.800 RON, 2004

Participant:

a) Proiecte internaționale

Proiect de cercetare internațional **GENOME** – „High resolution genome-wide analysis of genetic markers and retrospective biological dosimetry of absorbed radiation”. Coordonator University of Catania (director proiect Prof. D. Condorelli), parteneri: UMF Carol Davila, LNS-INFN Catania (Italia), Universitatea Bucuresti, IFIN-HH Bucuresti; 2009

Proiect de cercetare internațional **PAC-C104 LNS-INFN Italia; FLAVONOIDS** - „Differential effects of natural flavonoids on irradiated human leukemia T-lymphocytes”. Coordonator UMF Carol Davila (Director Proiect Dr. Irina Băran), parteneri: LNS-INFN Catania (Italia), Universitatea din Catania (Italia), Universitatea Bucuresti, IFIN-HH Bucuresti; 2008.

Proiect **TEMPUS JEP 1141/95**, Audiologie, cu Univ. Montpellier 1, Franța și Inst. Marie-Haps, Bruxelles, Belgia (1997-1999)

Contract între **Academia Română și Academia Ungară de Științe** “Studiul proprietăților electrice și optice ale complexelor proteice și fragmentelor membranare”(1990-1996)

Contract între **Academia Română și Academia Ungară de Științe** “Studiul membranelor excitabile”(1984-1985)

b) Proiecte naționale

Proiect Idei – PNII 2007-2013, **cod CNCSIS 1449** competitia 2008, „Mecanisme complexe de semnalizare celulara prin intermediul ionilor de calciu in conditii normale sau de stress oxidativ - rolul in proliferare, apoptoza si in cuplajul excitatie/contractie musculara”. Perioada contractului: 2009-2011; UMF Carol Davila (Director Proiect Dr. Irina Baran)

Proiect **PNII 2007-2013, Programul 4 "Parteneriate in domeniile prioritare"** Contract 42139/29.09.2008 – REUMALAS, Dezvoltarea si perfectionarea terapiei laser anti-inflamatorii prin studiul actiunii radiatiei laser la nivel molecular si celular si standardizarea metodei de tratament. Perioada contractului: 2008-2011 (Responsabil Proiect Partener 1 UMF - CSI Dr. Eva Katona)

Proiect **CERES-C3 nr. 264**, contract 3-423/2003: Investigatii in vitro privind modificarile moleculare si celulare induse de radiatiile laser de mica putere (2003-2005)

Proiect **CNFIS cod 32**, Modernizarea învățământului de biofizică medicală prin introducerea lucrărilor practice asistate de calculator, a cursurilor ilustrate prin proiectii LCD si a examenelor programate pe calculator (200-2002)

Contract 5024/1996 (MEI, cod CNCSU:1392/1996), **contract 7024/1997**(MEI, cod CNCSU:1466/1997), **contract 6/1998** (MEI, cod CNCSU:141/1998): Studiul comparativ al efectelor radiațiilor coerente și necoerente din domeniul optic asupra unor mecanisme fundamentale implicate în funcția celulelor vii.(1996-1998)

Contract 3024C/1994 "Investigații privind modificarea cu vârstă a proprietăților membranelor și ale unor componente membranare funcționale implicate în mecanismele de acțiune a câmpurilor electromagnetice de frecvențe diferite asupra diverselor biosisteme" (Ministerul Învățământului)(1004-1995)

Contract/1994 (Academia de Științe Medicale) Cercetari asupra modificărilor unor proprietati ale membranelor celulare sub actiunea agentilor citolitici și a unor substante medicamentoase (1994-1995)

Contract 1103B/Directia Generala a Cercetarii Stiintifice si Dezvoltarii tehnologice din MEI/ Investigatii privind mecanismele moleculare ale actiunii câmpurilor electromagnetice asupra structurii si functiei membranelor biologice si asupra unor componente proteice functionale.(1993-1995)

Contract C1/1989 (ASM) Cercetări asupra modificării unor proprietăți ale membranelor sub acțiunea noxelor chimice și a substanțelor medicamentoase (1990-1992)

Contract 91 CH - Cercetări privind rolul ionilor, carbohidraților și al unor molecule biologice active în structura și funcția membranelor biologice și implicațiile în mecanismele moleculare ale unor procese biologice fundamentale : transport, excitație, îmbătrânire, patogeneză (1989 -CNST; 1990 - Direcția General a Cercetării Științifice și Dezvoltării Tehnologice din MEI)(1989-1993)

Contract 2/67CH/ - Cercetari privind proprietățile fizico-chimice ale membranelor biologice și implicațiile protonilor, cationilor metalici și ale policationilor organici în funcția membranelor în condiții normale și patologice(1985-1988)

Contract 162E/43CH/ - Structura, proprietățile fizice și rolul apei și ionilor în procesele bioenergetice fundamentale: excitabilitate, mecanisme bioenergetice, creștere, dezvoltare, îmbătrânire, boală (1980-1984)

Contract 18E - Cercetări privind energetica prelucrării informației în sistemul nervos. Datele energetice ale bioelectrogenezei influxului nervos(1975-1979)/ Perfecționarea metodologiei de evidențiere a teratogenității provocate de agenți fizici și chimici, (**Academia de Științe Medicale**)(1971-1972)

Profesor invitat, cercetător invitat (invited scientist), stagii de lucru în străinătate :

1990- 2007, câte 2 săptămâni - 4 luni anual în Ungaria (Institutul de Biofizică al Centrului de Cercetări Biologice al Academiei Ungare de Științe, Szeged, director Acad. Prof. Dr. Lajos Keszthelyi, respectiv Acad. Prof. Dr. Pal Ormos); 1992 (septembrie-octombrie): 3 săptămâni în Franța: Institutul "Paul Pascal", Pessac, Universitatea din Bordeaux, Franța; 1997-1999, Universitatea Montpellier 1, CREFA (prof. Dr. Christian Gelis); 1998: 2 săptămâni în Polonia, Universitatea Tehnico-Agricolă din Olsztyn-Kortowo (Prof. Dr. K. Bryl); REQUIMTE, 2007, septembrie 2 săptămâni Universidad Nova, Lisabona (prof. Dr. Teresa Moura); 1994-2009, stagii de 2-5 luni anual în Germania, Institutul Max-Planck de Biofizică, Frankfurt/Main (prof. Dr. Ernst Bamberg, director).

Lista publicațiilor

În străinătate (ISI, Web of Knowledge):

1. **Constanta Ganea** and Klaus Fendler, Bacterial transporters: Charge translocation and mechanism, **BBA – Bioenergetics**, doi:10.1016/j.bbabo.2009
2. Popescu A, **Ganea C**, Moura T, A. Bicho, Galantamine modulates the recovery from desensitization of nicotinic receptors in TE 671 cells **ROMANIAN BIOTECHNOLOGICAL LETTERS** Volume: 14 Issue: 1 Pages: 4104-4118 Published: JAN-FEB 2009
3. I.BARAN, **C. GANEA** et al., Effects of Nocodazole and Ionizing Radiation on Cell Proliferation and Delayed Luminescence, **Romanian Journal of Physics**, Volume 54, Number 5-6, 2009
4. Baran I., **Ganea C.**, Baran V. Numerical studies on the activity of the muscle calcium channel. **ROMANIAN REPORTS IN PHYSICS** (2009, sub tipar)
5. Irina Băran, **Constanța Ganea**, Virgil Băran, A two gate model for the ryanodine receptor with allosteric modulation by caffeine and quercetin, **European Biophysics Journal**, Volume: 37 Issue: 6 Pages: 793-806 Published: JUL 2008
6. Zoltán Bálint, Gergely A. Végh, Anca Popescu, Mihai Dima, **Constanta Ganea**, and György Váró, 2007, Direct observation of the protein motion during the photochemical reaction cycle of the bacteriorhodopsin, **Langmuir**, 23, 7225-7228
7. Meyer-Lipp K, N. Sery, **C. Ganea**, C. Basquin, G. Leblanc, K. Fendler, 2006, The inner interhelix loop 4-5 of the melibiose permease from E.coli takes part in conformational changes after sugar binding **Journal of Biological Chemistry**, 281 (36): 25882-25892
8. Stefan Raunser, Matthias Appel, **Constanta Ganea**, Ulrike Geldmacher-Kaufer, Klaus Fendler and Werner Kuehlbrandt -Structure and function of prokaryotic glutamate transporters from E. Coli and Pyrococcus horikoshii, **Biochemistry –US**, 45 (42): 12796-12805 OCT 24 2006
9. Júliánna Szakács, Melinda Lakatos, **Constanta Ganea** and György Váró, 2005, Kinetic isotope effects in the photochemical reaction cycle of ion transporting retinal proteins, **Journal of Photochemistry and Photobiology B**, 79: 145-150
10. Kerstin Meyer-Lipp, **Constanta Ganea**, Thierry Pourcher, Gerard Leblanc, and Klaus Fendler, 2004, Sugar Binding Induced Charge Translocation in the Melibiose Permease from *Escherichia coli*, **Biochemistry-US**, 43 :2241-22502.

11. Zoltán Bálint, Melinda Lákátos, **Constanta Ganea**, Janos. K. Lanyi and György Váró, 2004, The nitrate transporting photochemical reaction cycle of the pharaonis halorhodopsin, **Biophysical Journal**, vol.86, p. 1-9.
12. Melinda Lakatos, Géza I. Groma, **Constanta Ganea**, Janos. K. Lanyi and György Váró , 2002, Characterization of the Azide-Dependent Bacteriorhodopsin-Like Photocycle of Salinarum Halorhodopsin, **Biophysical Journal**, vol.82, p. 1686-1795.
13. **Constanța Ganea**, Thierry Pourcher, Gerard Leblanc, and Klaus Fendler, 2001,-Evidence for Intraprotein Charge Transfer during the Transport Activity of the Melibiose Permease from *Escherichia Coli*, **Biochemistry-US**, 40 (45):13744-13752.
14. Ludmann Krisztina, **Ganea Constanta** and Varo Gyorgy, 1999, Back photoreaction from intermediate M of bacteriorhodopsin photocycle. **Journal of Photochemistry and Photobiology**, B: Biol., 49, p.23-28.
15. **Ganea Constanta**, Babes Alexandru, Luepfert Christian, Grell Ernst, Fendler Klaus and Clarke Ronald, 1999, Hofmeister Effects on the Kinetics of Partial Reactions of the Na⁺,K⁺-ATPase. **Biophysical Journal**, vol. 77, p. 267-281.
16. **Ganea C.**, Tittor J., Bamberg E. and Oesterhelt D., 1998, Chloride and pH -dependent proton transport by BR mutant D85N, **Biochim. Biophys. Acta**, 1368, p. 84-96.
17. **Ganea C.**, Gergely C., Ludmann K. and Varo G. , 1997, The role of water in extracellular half- channel of bacteriorhodopsin - **Biophysical Journal**, vol. 73, p. 2718-2725.
18. **Ganea C.**, Gergely Cs., Varo G. , 1995, Substates in bacteriorhodopsin photocycle. **Electro- and Magnetobiology**, 14 (3), 229-241.
19. Gergely Csilla, **Ganea Constanta**, Szaraz Sandor and Varo Gyorgy, 1995, The charge motions studied in the bacteriorhodopsin mutants D85N and D212N. **Journal of Photochemistry and Photobiology**, B 27: 27-32.
20. Gergely Cs., **Ganea C.**, Varo G. - Combined optical and photoelectric study of the photocycle of 13-cis bacteriorhodopsin. **Biophysical Journal**, vol.67, 855-861, 1994.
21. Gergely Csilla, **Ganea Constanta**, Groma Geza and Varo Gyorgy, 1993, Study of the photocycle and charge motions of the bacteriorhodopsin mutant D96N. **Biophysical Journal**, vol.68, p.2478-2483.
22. **Ganea C.**, Varo G. - A comparative study of purple membranes partially rehydrated with water and deuterium oxide, 1992, **European Biophysics Journal**, 21, p.331-336.
23. Vasilescu V., **Ganea C.** , 1986, Deuteration, a tool for investigation of biosystems - **Studia Biophysica**, 111, 143.
24. **Ganea C.**, Vasilescu V. , 1981, D₂O effects on the kinetic and thermodynamic parameters of fire fly bioluminescence - **Studia Biophysica**, 84, 59.
25. Chirieri E., Aricescu I., **Ganea C.** and Vasilescu V., 1977, The effect of deuteration on frog retina bioelectrogenesis; **Naturwissenschaften** (Springer Verlag), **164**:149-150.

În străinătate (ISI Web of Knowledge), publicații scurte:

26. Irina Baran, **Constanta Ganea**, Adrian Iftime, Virgil Baran, Gating mechanisms of the skeletal muscle Ca²⁺ release channel, regulation by Quercetin and Caffeine, **FEBS Journal**, suppl., Vol. 275 (1), p. 309, 2008
27. Anca Popescu, Ana Bicho, and **Constanta Ganea**, Effects of Quercetin on nicotinic receptor activation and desensitization, **FEBS Journal**, suppl., Vol. 275 (1), p. 351, 2008

28. Margina Denisa, Ilie Mihaela, Mitrea Niculina, Gradinaru Daniela, Pencea Cornelia, Vladica Maria, Katona Eva, **Ganea Constanta**, Quercetin and epigallocatechin induced changes in the membrane fluidity of peripheral blood mononuclear cells from diabetes patients, **TOXICOLOGY LETTERS** Volume: 180 Pages: S86-S86 Supplement: Suppl. 1 Published: OCT 5 2008
29. D. Ionescu, M. Dragusin, M. Dima, A. Popescu, **C. Ganea**, Anions Modulate the Interaction of Hypericin/BSA or Amitriptyline Complex with Lipid Membrane, **The FEBS Journal**, Abs. F-16, Vol. 274 (1) 2007
30. M. Dima, A. Iftime, A. Popescu, **C. Ganea**, Influence of epigallocatechin gallate on artificial lipid membranes, **The FEBS Journal**, Vol. 274 (1), p. 118, 2007
31. Anca Popescu, Diana Ionescu, Magda Dragusin and **Constanta Ganea** – The effects of antioxidant quercetin on membrane electrical properties in the presence of some heavy metals, **FEBS Journal**, vol. 273, p. 169, 2006.
32. Vasilescu V., Katona E., Zaciuc C., **Ganea C.**, Tripsa M. – Water and proton involvement in the structure and function of biological systems as revealed by non-destructive techniques, 28th Ann. Meeting of the Biophysical Society, San-Antonio, Texas, USA, **Biophys. J** 45 (2 Part2): 57A 1984

In strainatate, in volume ale unor edituri recunoscute, in extenso

33. I. Baran, **C. Ganea**, F. Musumeci, S. Tudisco, A. Scordino, S. Privitera, L. Lanzano, R. Grasso, L. Sui, V. Baran. Effects of the bioflavonoid quercetin on delayed luminescence of hydrogen peroxide-treated yeast cells. 2008. **Activity Report Istituto Nazionale di Fisica Nucleare Laboratori Nazionali del Sud**, pp. 199-201. Edit. Arti Grafiche Le Ciminiere Catania, Italia, ISSN: 1827-1561
34. I. Baran, **C. Ganea**, F. Musumeci, S. Tudisco, A. Scordino, S. Privitera, L. Lanzano, V. Baran. Effects of the antimitotic drug nocodazole on cell proliferation and delayed luminescence of yeast cells. 2008. **Activity Report Istituto Nazionale di Fisica Nucleare Laboratori Nazionali del Sud**, pp. 202-205. Edit. Arti Grafiche Le Ciminiere Catania, Italia, ISSN: 1827-1561
35. K. Ludmann, **C. Ganea**, C. Gergely and G. Varo - Study of wild type and several mutant bacteriorhodopsin photocycle - ITC, Proceedings of the Closing Seminar, p.55-82, Szeged, 1997.
36. **Ganea C.**, Vasilescu V. , 1985, The isotope effects of D₂O on the firefly bioluminescence spectra - in "**Water and Ions in Biological Systems**" Eds. A.Pullman, V.Vasilescu, and L. Packer, Plenum Press, London, p.671, ISBN 0-306-41921-1.
37. **Ganea C.** and Vasilescu V. , 1984, The isotope effect of D₂O in the firefly bioluminescence processes - in "**New Trends in the Study of Water and Ions in Biological Systems**", Eds. V.Vasilescu and C.F.Hazlewood, Univ.Press., p.54.
38. Vasilescu V., Katona E., Popescu A.I., Zaciuc C., **Ganea C.**, 1984, Some problems concerning the role of water and protons in the function of biological membranes - in "**Membranes processes, molecular biological aspects and medical applications**" Eds.G.Benga, H.Baum. F.Kummerow, Springer Verlag, New-York, p.92.
39. Katona E., **Ganea C.**, Popescu A.I., Vasilescu V. , 1982, Dynamics of water in the peripheral nerve - in "**Biophysics of Water**" Eds. F.Franks, Sheila Mathias, John Wiley & Sons, Chichester and New-York, p.235 ISBN 0 471 10229 6.

40. Popescu A. I., Katona E., **Ganea C.**, Vasilescu V. , 1982, Kinetics of Vacuum Dehydration in the study of tissue water - in "**Biophysics of Water**" Eds. F.Franks, Sheila Mathias, John Wiley & Sons, Chichester and New-York, p.160 ISBN 0 471 10229 6.

În străinătate (BIOSIS previews), publicații scurte:

41. Diana Ionescu and **Constanța Ganea** – The Hofmeister effect of anions on the insertion of hypericin in lipid bilayers, **European Biophysics Journal**, 34: 699, 2005
42. **Constanta Ganea**, Kerstin Meyer-Lipp, Gerard Leblanc, and Klaus Fendler, 2005, New evidence concerning the role of helix IV in the function of Mel B symporter, **European Biophysics Journal**, 34: 800, 2005
43. Diana Ionescu and **Constanța Ganea** – The Hofmeister effect of anions on the insertion of the antioxydant quercetin in lipid bilayers, **European Biophysics Journal**, 34: 723, 2005
44. Kerstin Meyer-Lipp, **Constanta Ganea**, Thierry Pourcher, Gerard Leblanc, and Klaus Fendler – The transport mechanism of melibiose permease: a study using electrical measurements and fluorescence techniques, **European Biophysics Journal**, 34: 805, 2005
45. Júliánna Szakács, Melinda Lakatos, **Constanta Ganea** and György Váró – The kinetics of the photochemical reaction cycle of ion transporting retinal proteins, **European Biophysics Journal**, 34: 583, 2005

In tara, in Proceedings ale unor conferințe naționale/cu participare internațională:

46. A. Popescu, I. Baran, A. Morega, **C. Ganea**. Drug delivery in a patch-clamp setup: Computational models of concentration distribution on the cell membrane. Comunicare orală și studiu *in extenso*, Seventh Workshop on Mathematical Modelling of Environmental and Life Sciences Problems, Constanta Nov. 2008. Book: Series on Mathematical Modelling of Environmental and Life Sciences Problems. Proceedings of Workshops 2009 (Editura Academiei Române) (sub tipar) **ISBN**: 973-27-1113-2
47. **Constanța Ganea**, Kerstin Meyer-Lipp, G. Leblanc, K. Fendler, Structure/function relationship in Mel B symporter – Combining electrophysiological (SSM) and fluorometric measurements with cysteine mutagenesis, 8th Romanian Biophysics Conference with International Participation, May 26-28, Iași 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Supl.1, pp.7-10

In tara, in reviste indexate (Medline)

48. **Ganea C.**, Vasilescu V., 1979, Heavy water effects on certain energetic processes in retina - *Rev. Roum. Morphol.Embryol., Physiol.,* (Edit. Academiei Rom.) **PHYSIOLOGY**, 16, 59.
49. Chirieri Eugenia, **Ganea Constanta**, Aricescu Ioana, Vasilescu V. , 1977, Investigations concerning the changes induced by deuterium for hydrogen substitution in bioelectric activity of the frog retina;; *Rev. Roum. de Morphol., d'Embriol. et de Physiologie* (Edit. Academiei Rom.) v. 14, nr.2, p.119-123.
50. Chirieri Eugenia, **Ganea Constanta**, 1976, Cytospectrophotometric recording of the light transmission curves through the frog photoreceptor cells; *Oftalmologia* (Ed. Medicală), v.20, nr.1, p.9-12.
51. Vasilescu V., Chirieri E., **Ganea C.**, Mantescu C., 1972, Investigation of glutamic acid incorporation in frog sciatic nerve during resting condition and during electrostimulation;; *Rev. Roum. Physiol.* , Editura Academiei, v. 8, nr. 2, p.125-128.

In tara, in reviste ale Academiei (recunoscute CNCSIS)

52. Iftime, I. Plajer, **C. Ganea** – The effects of some lyotropic anions on transient and stationary photocurrents of bacteriorhodopsin, **Romanian J. Biophys.**, 2007, 17(1) p. 1-8
53. Dima, M., Bálint, Z., **Ganea C.**, Váró, G. – Wavelengths dependence of the electric signals generated in dried samples of BR, **Romanian J. Biophys.**, 2007, 17(4):219-224
54. D. Ionescu, A. Popescu, M. Dragusin, M. Dima, A. Iftime, **C. Ganea** – Modulation by quercetin of the effect of certain Hofmeister anions on artificial lipid bilayers, **Romanian J. Biophys.**, 2007, 17(2):85-90
55. Szakacs Julianna, Lakatos Melinda, **Ganea Constanta** and Varo Gyorgy, 2005, The kinetics of the photochemical reaction cycle of deuterated bacteriorhodopsin and pharaonis halorhodopsin **Romanian Journal of Biophysics**, (Edit. Academiei Rom.), Rom. J. Biophys. 2005 15(1-4):79-84.
56. Szakacs Julianna, Lakatos Melinda, **Ganea Constanta** and Varo Gyorgy, 2005, The effects of heavy water in the proteorhodopsin photocycle, *Romanian Journal of Biophysics*, (Edit. Academiei Rom.), **Rom. J. Biophys.** 2005 15(1-4):35-40.
57. Iftime A., Plajer Ioana and **Ganea Constanta**, 2004, The effects of the lyotropic anion nitrite on the transient and stationary photocurrents of bacteriorhodopsin - **Romanian Journal of Biophysics**, (Edit. Academiei Rom.), Rom. J. Biophys. 2004 14(1-4):13-20.
58. **Ganea Constanta**, Ludmann Krisztina, Varo G., 1999, Heavy water effects on partially dehydrated bacteriorhodopsin mutant D212N. *Rom. J. Biophys.*, Editura Academiei, **7**, nr.3, 73-78.
59. **Ganea C.**, 1998, BLM studies concerning the anion effects on the defective proton pump D85N BR, **Rom. J. Biophys.**, Edit. Academiei, **8**, nr.4, p.255-265.
60. Savopol T., Gergely C., Varo G. and **Ganea C.**, 1997, Optical absorption of some mutant bacteriorhodopsins, in partially hydrated and deuterated dried samples - **Romanian Journal of Biophysics**, (Edit. Academiei Rom.), 7, no. 1-2, 23-28
61. **Ganea C.**, Katona E., 1995, Studies on the role of water in some bioenergetical processes by means of deuteration - **Romanian Journal of Biophysics**, (Edit. Academiei Rom.) vol.5, no.2-3, pp.105-110.
62. **Ganea C.**, Kovacs E., Ciures A., 1994, Studies concerning the mechanisms of energy concentration in the rod outer segments:, **Rom. J. of Biophys.**, Edit. Academiei, v.4, nr.3, p.141-147.
63. **Ganea C.**, Gergely C., Varo G. , 1993, Deuteration effects on the electrical signals of bacteriorhodopsin mutants D85N, D212N and D96N, **Romanian Journal of Biophysics**, (Edit. Academiei Rom.), nr.3, p.1.
64. **Ganea C.**, Varo G. , 1992, Deuteration effects on partially hydrated purple membranes. A kinetic study. - **Romanian Journal of Biophysics**, (Edit. Academiei Rom.) vol.2, nr.1, p.1.
65. **Ganea C.** - Conceptii si teorii actuale asupra perceptronului, 1969, **Progresele Stiintei**, Ed. Academiei, 5, pp. 10.

În volume ale unor conferințe internaționale cu comitet de program, în rezumat

66. A. Popescu, A. Bicho, T. Moura, **C. Ganea**, Effect of galantamine on muscular nicotinic receptor desensitization – a patch clamp study, **European Biophysics Journal**, vol. 36 suppl: S165, 2007

67. I. Baran, **C. Ganea**, F. Musumeci, S. Tudisco, A. Scordino, S. Privitera, L. Lanzano, V. Baran, Quercetin effects on survival and delayed luminescence of hydrogen peroxide-treated yeast cells, **European Biophysics Journal**, vol. 36 suppl.: S171, 2007
68. D. Cucu, R. Mihart, L. Badiță, A. Popescu, **C. Ganea**, Mechanisms of Cd-induced changes on Na transport from Na- epithelial renal channels, **European Biophysics Journal**, vol. 36 suppl: late abstracts, 2007
69. Dragusin M., Margina D., Dima M., Iftime A., Popescu A., Ilie M., Katona E., **Ganea C.**, Tea flavonoid epigallocatechin gallate induces changes in membrane electrical parameters and fluidity, IV International Conference on Molecular Recognition", Pécs, Hungary, Aug. 2007, Abstracts, p.60
70. **Constanța Ganea** - "Intraprotein charge transfers studied by SSM (Solid Supported Membrane) method" - International Conference May 18 –21, 2006 Bucharest, Romania Biosensing and Biodynamics: From Basics to Applications;
71. Kerstin Meyer-Lipp, **Constanta Ganea**, Michela Schlüter, Thierry Pourcher, Gerard Leblanc, Klaus Fendler - The Transport Mechanism of Melibiose Permease: a Study Using Electrical Measurements and Fluorescence Techniques , **Biophysical Journal**, vol.90, 2251 Plat, 2006.
72. A.Zhou, K. Meyer-Lipp, **C. Ganea**, A. Wozniak, T. Pourcher, G. Leblanc, H. Jung, K. Fendler – CHARGE TRANSLOCATION AND MECHANISM: Na⁺/SOLUTE SYMPORTERS INVESTIGATED ON SOLID SUPPORTED MEMBRANES, BEB, Florence 19-24 June, 2003
73. **C. Ganea**, K. Meyer-Lipp, T. Pourcher, G. Leblanc, K. Fendler -Electrogenic properties of the G117C mutant of melibiose permease from E.coli. – BEB, Florence 19-24 June, 2003
74. Kerstin Meyer-Lipp^{*†}, Cécile Basquin[†], **Constanta Ganea**[§], Thierry Pourcher[†], Gérard Leblanc[†], Klaus Fendler^{*} - Functional Analysis of the R141C Mutant of *Escherichia Coli* Melibiose Permease- Jahrestagung der Deutschen Gesellschaft für **Biophysik**. September 8 - 10, 2002
75. K.Fendler, **C. Ganea**, T. Pourcher, G.Leblanc – Electrogenic steps during the transport cycle of the melibiose permease from Escherichia coli. – 2001 FASEB SUMMER RESEARCH CONFERENCES New perspectives in Transporter Biology, Tucson, Arizona, 24-25 iulie 2001, abstr. pos.21
76. **C. Ganea** – Electrical properties of the melibiose permease from Escherichia coli, The Annual Conference of Max Planck Institute of Biophysics, Schloss Ringberg, Germania, 24-27 aprilie 2001
77. **C. Ganea** - Does D212N BR mutant pump chloride? - The Annual Conference of Max Planck Institute of Biophysics , Schloss Ringberg, Germania, 21-24 februarie 1999
78. **Constanta Ganea** - The effects of anions on some bacteriorhodopsin mutants, International Workshop on Biodynamics & Membranes (sub egida UNESCO), Bucuresti, 4-5 mai, 1998, abstr. p. 11.
79. G. Váró, Z. Báthori-Tárczy, **C. Ganea**, C. Gergely, K. Ludmann - Bacteriorhodopsin, a candidate as dynamic memory in biocomputers, International Workshop on Biodynamics & Membranes (sub egida UNESCO), Bucuresti, 4-5 mai, 1998, abstr.p.10.
80. T. Savopol, Cs. Gergely, G. Váró and **C. Ganea** - Optical absorption of some mutant bacteriorhodopsins, in partially hydrated and deuterated samples - Membrane Transport Processes and Signal Transduction, FEBS Advanced Course, Bucharest, 24-31 August, 1997

81. **C. Ganea**, J. Tittor, D. Oesterhelt and E. Bamberg - Partial reactivation of a defective proton pump - International Workshop on Ion transport and cellular signalling. General mechanisms and their alteration in pathologic and stress conditions, Cluj -Napoca, 18 octombrie 1997.
82. **Ganea C.** and E. Bamberg - Proton transport activity of D85N BR at low pH and the effect of chloride - 7th International Conference on Retinal Proteins, Zichron Yaacov, Israel, iunie 23-28, 1996, p.82.
83. **Ganea C.** - On pH dependence of direct and inverse proton pumping in the mutant D85N of bacteriorhodopsin - The Annual Conference of Max Planck Institute of Biophysics, Schloss Ringberg, Germania, 5-9 mai 1996
84. **Ganea C.**, Gergely Cs., Váró G. - Combined optical absorption and electrical measurements in the study of bacteriorhodopsin photocycle -Romanian-Hungarian Workshop with International Participation "Advanced optical techniques in biomedical research & applications", Predeal, sept. 11-13, 1994.
85. Gergely Cs., **Ganea C.**, Váró G. - Study of the photocycle of 13-cis bacteriorhodopsin - 6th International Conference on "Retinal Proteins", Leiden, Olanda, 19-24 iunie 1994, abstr. p. 168.
86. Gergely C., **Ganea C.**, Groma G., Váró G. The photocycle and charge motions in BR mutant D96N - 11th International Biophysics Congress, Budapest, Ungaria, 25-30 iulie 1993, abstr. p.198
87. **Constanta Ganea** - Role de la bactériorhodopsine en tant que pompe à protons - conf. Institutul de chimie fizica, Pessac, Bordeaux, Franta, oct. 1992.
88. **Ganea C.**, Vasilescu V. - Bioenergetical Aspects of Deuteration - Romanian - German Workshop, Bucharest, 1989, abstr. p.9.
89. **Ganea C.** - Deuteration in Bioenergetics - American-Romanian Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bandera, Texas, SUA, 1984, D.W.Deamer (1985), Journal of Bioenergetics and Biomembranes, vol.17, no.6, p.395-399.
90. **Ganea C.** - Deuteration in Bioenergetics - American-Romanian Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bandera, Texas, SUA, 1984.
91. Vasilescu V., Chirieri-Kovács E., Dinu Al., Aricescu I., **Ganea C.**, Herman S. - Studies of Certain Biophysical Processes in Photoreceptor Cells, CMEA Meeting, Brno, Cehoslovacia, 1983, Abstr. p.7-9
92. Katona E., **Ganea C.**, Vasilescu V. - Role of Water in Molecular Mechanism of Anaesthetics Action - IInd International Conference on "Water and Ions in Biological Systems", Bucharest, 1982.
93. **Ganea C.** - Isotope Effect of D₂O in the Fire-Fly Bioluminescence Processes - Romanian-American Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bucharest, 1982, abstr. p.10.
94. **Ganea C.**, Vasilescu V. - Isotope Effect of D₂O on the Fire-Fly Bioluminescence Spectra - IInd International Conference on "Water and Ions in Biological Systems", Bucharest, 1982, abstr. p.150.
95. Vasilescu V., Katona E., Zaciú C., Ciures Al., **Ganea C.**, Chirieri-Kovács E. - Proton-Deuteron Exchange in Excitation- International Conference on Structure and Function in Excitable Cells, Woods Hole, Mass., SUA, 1981, Abstr. p.9

96. Katona E., Popescu A.I., **Ganea C.**, Vasilescu V. - Water Involvements in the Structure and Function of Peripheral Nerve - VIIth International Biophysics Congress and IId Pan-American Biochemical Congress, Mexico-City, Mexic, 1981, Abstr p 333.
97. Popescu A., Katona E., **Ganea C.** and Vasilescu V. - Kinetics of vacuum dehydration in the study of tissue water - Working Conference "Biophysics of Water", Cambridge, England, Abstr. p. 25, 1981.
98. Katona E., **Ganea C.**, Popescu A. and Vasilescu V. -Dynamics of water in the peripheral nerve - Working Conference "Biophysics of Water", Cambridge, England, Abstr. p.33, 1981.
99. Vasilescu V., Zaciuc C., **Ganea C.**, Chirieri-Kovács E., Popescu A.I., Katona E. - D₂O Effects on Biosystems - VIIth International Biophysics Congress, Mexico-City, Mexic, 1981, Abstr p 333.
100. **Ganea C.**, Popescu A.I., Vasilescu V. - D₂O Effects on Kinetic Parameters of Bioluminescence - 1st International Conference on "Water and Ions in Biological Systems", Bucuresti, 1980
101. **Ganea C.**, Vasilescu V. - Heavy Water Effects on the Kinetic and Thermodynamic Parameters of Bioluminescence - 1st International Conf. on "Water and Ions in Biological Systems", București, 1980
102. Popescu A.I., **Ganea C.**, Eremia D., Vasilescu V. - Controlled Dehydration in the Study of Water in Biological Systems - 1st International Conference on "Water and Ions in Biological Systems", București, 1980.
103. Chirieri-Kovács E., **Ganea C.**, Ciures A., Vasilescu V. - On the optimization mechanisms of energy conversion in frog photoreceptors - Simpozion UNESCO-ICRO asupra rodopsinei, Szeged, Ungaria, 5-15 sept. 1980, Abstr. p.35.
104. Vasilescu V., Katona E., **Ganea C.**, Chirieri E. - D₂O effects on the electrical parameters and energy metabolism in isolated nerves and retina - VIth International Biophysics Congress, Kyoto, Japan, 1978, Abstr. p. 153.
105. Chirieri E., **Ganea C.**, Aricescu I., Vasilescu V. - Role of water in frog retina bioelectrogenesis - VIth International Biophysics Congress, Kyoto, Japan, Abstr. p.201,1978.
106. Vasilescu V., Katona E., Margineanu D.-G., **Ganea C.** - Possible Role of Protons in Nervous Excitation – Int. Conference of Quantum Chemistry, Biology and Pharmacology, Kiev, URSS, 1978, Abstr p 43.
107. Vasilescu V., Chirieri E., **Ganea C.** - Rolul acidului glutamic în metabolismul nervului periferic în activitate - Simpozionul de Membrane Celulare și Relatia lor Funcțională cu Biopotențialele, Leningrad, URSS, nov., 1970. Abstr. p.35-36

În țară, la manifestări internaționale

108. I. Baran, I. Ursu, C. **Ganea** – Differential effects of proton- and γ-radiation on cell survival and proliferation. Comunicare orală și studiu în rezumat, International workshop: Radioisotopes and Biomolecules – A partnership for the Early Diagnosis and Targeted Radiotherapy of Cancer, 26-28 November 2008, Bucharest; Abstracts p. 26
109. A. Iftime, M. Dragușin, D. Ionescu, **C. Ganea**, The Hofmeister effect of anion son electrical parameters of lipid bilayers containing bacteriorhodopsin, 8th Romanian Biophysics Conference with International Participation, May 26-28, Iași 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Suppl.1, pp.173-174

110. A. Iftime, D. Ionescu, **C. Ganea**, The Hofmeister effect of anion on electrical parameters of lipid bilayers, 8th Romanian Biophysics Conference with International Participation, May 26-28, Iași 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Suppl.1, pp.174-176
111. Szakacs Julianna, Lakatos Melinda, **Ganea Constanta** and Varo Gyorgy, The effects of heavy water in the proteorhodopsin photocycle, The Hofmeister effect of anion on electrical parameters of lipid bilayers, 8th Romanian Biophysics Conference with International Participation, May 26-28, Iași 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Suppl.1, pp.186-188
112. Szakacs Julianna, Lakatos Melinda, **Ganea Constanta** and Varo Gyorgy, The kinetics of the photochemical reaction cycle of deuterated bacteriorhodopsin and pharaonis halorhodopsin, 8th Romanian Biophysics Conference with International Participation, May 26-28, Iași 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Suppl.1, pp.188-189
113. **Constanta Ganea**, K.Meyer-Lipp, T. Pourcher, G. Leblanc, K Fendler - Charge translocation in membrane transporters (MelB) investigated on solid supported membranes, Predeal 5-7 oct. 2003
114. **Constanta Ganea** - The effects of anions on some bacteriorhodopsin mutants, International Workshop on Biodynamics & Membranes (sub egida UNESCO), Bucuresti, 4-5 mai, 1998, abstr. p. 11.
115. **C. Ganea** - Partial reactivation of a defective proton pump - International Workshop on "Ion transport and cellular signalling. General mechanisms and their alteration in pathologic and stress conditions", Cluj -Napoca, 18 octombrie 1997.
116. **Ganea C.**- Combined optical absorption and electrical measurements in the study of bacteriorhodopsin photocycle -Romanian -Hungarian Workshop with International Participation "Advanced optical techniques in biomedical research & applications", Predeal, sept. 11-13, 1994.
117. **Constanta Ganea** - Mésures électriques dans l'étude des protéines membranaires photosensibles - **École d'été franco-roumaine de biophysique** " Proteines: structure, dynamique et fonction", București, sept. 1991
118. **Ganea C.** - Bioenergetical Aspects of Deuteration - Romanian - German Workshop, Bucharest, 1989, abstr. p.9.
119. **Ganea C.** - Isotope Effect of D₂O in the Fire-Fly Bioluminescence Processes - Romanian-American Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bucharest, 1982, abstr. p.10.

LUCRĂRI COMUNICATE

În străinătate

120. Kerstin Meyer-Lipp, Michela Schlüter, **Constanta Ganea**, Thierry Pourcher, Gérard Leblanc and Klaus Fendler - The transport mechanism of melibiose permease: a study using electrical measurements and fluorescence techniques. Mini Symposium Melibiose Permease, Frankfurt/Main, Germany, 11 November 2005
121. Balint Z., Lakatos M., Ganea C., Lanyi J., Varo G. - Kinetic study of the nitrate transporting photocycle of The Pharaonis halorhodopsin , International Symposium on Retinal Proteins: Experiments and Theory, Sept. 19-21 2004, German Cancer Research Center (DKFZ) Heidelberg, Germany.
122. Gergely Csilla, **Ganea C.**, Száraz S., Váró G. - Charge motions in bacteriorhodopsin mutants - Zilele SZBK, Szeged, Ungaria, 25-27 nov. 1992

123. Vasilescu V., **Ganea C.** - Deuteration, a non-destructive investigation tool - CMEA Meeting, Eberswalde, R.D. Germania, 1985
124. Vasilescu V., **Ganea C.** - New data concerning the action of D_2O on the biological systems (lb.rusă) - Reuniune CMEA, Puschino, Moscova, URSS, 1982.

În țară la manifestări internaționale și naționale:

125. I. Baran, **C. Ganea**, I. Ursu, F. Musumeci, S. Tudisco, A. Scordino, S. Privitera, L. Lanzano, E. Katona, V. Baran, G.A.P. Cirrone, G. Cuttone, L. Raffaele, L. Valastro, Effects of nocodazole and ionizing radiation on cell proliferation and delayed luminescence. **15th National Conference on Physics, Bucharest**, 10-13 September, 2008
126. I. Baran, **C. Ganea**, V. Baran. Numerical studies on the activity of the muscle calcium channel. **Conferinta Nationala de Fizica**, Bucuresti, septembrie 2008
127. Irina Baran, Ioan Ursu, **Constanta Ganea**, Differential Effects of Proton- and γ -radiation on Cell Survival and Proliferation, **Workshop on Radioisotopes and Biomolecules**, 26-28 November 2008, Bucharest, Romania
128. **C. Ganea**, T. Pourcher, G.Leblanc, K.Fendler – Electrogenic activity of the melibiose permease from Escherichia coli – National Conference of Romanian Society for Pure and Applied Biophysics, Sovata, Sept. 2001
129. **C. Ganea**, T. Pourcher, G.Leblanc, K.Fendler – Effects of SH-reagents on the melibiose permease from Escherichia coli - National Conference of Romanian Society for Pure and Applied Biophysics, Sovata, Sept. 2001
130. **Ganea C.**, Gergely Cs.,Váró G. - Charge motions during the photocycle of some bacteriorhodopsin mutants - A 3-a Conferință Națională de Biofizică cu participare internațională"Biophysics of Cellular Signalling", București, nov.1994.
131. **Ganea C.**, Gergely Cs., Váró G. - Efectele deuterării asupra semnalelor electrice ale mutantilor bacteriorodopsinei D85N si D212N - Conferința Națională de Biofizică și Informatică Medicală, Timișoara, nov. 1993, abstr. p.20.
132. **Ganea C.**, Váró G. - Comparative study of purple membranes partially rehydrated with water and deuterium oxide - Prima Conferință SNBPA, București, nov. 1992.
133. **Ganea C.** - Mésures électriques dans l'étude des protéines membranaires photosensibles - École d'été Franco-Roumaine, București, sept. 1991
134. **Ganea C.** - Studiul membranelor purpurii parțial deshidratate în apă și în apă grea - Simpozionul Național de Biofizică, Timișoara, 1991.
135. **Ganea C.** - Măsurători electrice asupra membranelor purpurii deshidratate si deuterate, com. USSM, București, nov., 1990.
136. Vasilescu V., Makropoulou M., Katona E., Popescu A.I., **Ganea C.** - Date RMN privind efectele nitroimidazolilor asupra tranziției helix-coil în ADN - Al XV-lea Simpozion Național de Biofizică, Craiova, 1981.
137. **Ganea C.**, Popescu A.I., Vasilescu V. - Bioluminescența sistemului luciferin-luciferază în D_2O - Al XIV-lea Simpozion Național de Biofizică, Sovata, 1979.
138. Popescu A.I., **Ganea C.**, Katona E., Vasilescu V. - Date noi privind fracțiunile de apă în sistemele excitabile, evidențiate prin tehnica deshidratării controlate - Al XIV-lea Simpozion Național de Biofizică, Sovata, 1979.

139. Vasilescu V., Popescu A.I., Katona E., **Ganea C.** - Metoda de studiu al deuterării maxime a sistemelor excitabile - Al XIV-lea Simp. Nat. de Biofizică, Sovata, 1979, Abstr. p .
140. **Ganea C.**, Vasilescu V. - Efectele D₂O asupra proceselor energetice din retină - Al XIII-lea Simpozion Național de Biofizică, Cluj, 1978.
141. Chirieri E., Aricescu I., **Ganea C.**, Vasilescu V. - Asupra mecanismelor generarii componentelor ERG - Com. la Sesiunea Științifică a Cadrelor Didactice din IMF, București, iunie, 1977
142. Chirieri E., **Ganea C.**, Aricescu I., Vasilescu V. - Investigarea unor parametri bioelectrici ai retinei prin substituirea H₂O cu D₂O - Al XII-lea Simpozion Național de Biofizică, Iași 1977, Abstr. p.12
143. **Ganea C.**, Chirieri E., Aricescu I., Vasilescu V. - Cercetari privind efectul deuterizării retinei de broască asupra frecvenței de fuziune - A II-a Conferință Națională de Biofizică, București, 1976, Abstr. p.9
144. Aricescu I., **Ganea C.**, Chirieri E., Vasilescu V. - Studiul efectelor radiației laser asupra unor parametri biofizici ai receptorului vizual - A II-a Conferință Națională de Biofizică, București, 1976, Abstr. p.73
145. Chirieri E., **Ganea C.**, Aricescu I., Vasilescu V. - Cercetări privind modificările induse de substituirea hidrogenului cu deuteriu în activitatea bioelectrică a retinei de broască - A II-a Conferință Națională de Biofizică, București, 1976, Abstr. p.86
146. **Ganea C.**, Chirieri E., Ciureș Al. - Mecanismele concentrării și conversiei de energie în celulele fotoreceptoare, USSM, București, 1974.
147. Turcu G., Chirieri E., **Ganea C.** - Dinamica încorporării acidului glutamic ¹⁴C în nervul periferic în raport cu starea funcțională - Simpozionul de Biofizică a Radiațiilor, București, 1969, Abstr. p.66

Conferințe invitate, Constanța Ganea

1. "Intraprotein charge transfers studied by SSM (Solid Supported Membrane) method" - International Conference May 18 -21, 2006 **Bucharest, Romania** Biosensing and Biodynamics: From Basics to Applications;
2. Structure/function relationship in Mel B symporter – Combining electrophysiological (SSM) and fluorometric measurements with cysteine mutagenesis, 8th Romanian Biophysics Conference with International Participation, May 26-28, **Iași** 2005, abstr. P.7
3. Charge translocation in membrane transporters (MelB) investigated on solid supported membranes, **Predeal** 5-7 oct. 2003
4. Electrical properties of the melibiose permease from Escherichia coli, The Annual Conference of Max Planck Institute of Biophysics, **Schloss Ringberg, Germania**, 24-27 aprilie 2001
5. Does D212N BR mutant pump chloride? - The Annual Conference of Max Planck Institute of Biophysics , **Schloss Ringberg, Germania**, 21-24 februarie 1999
6. The effects of anions on some bacteriorhodopsin mutants, International Workshop on Biodynamics & Membranes (sub egida UNESCO), **Bucuresti**, 4-5 mai, 1998, abstr. p. 11.
7. Electrical measurements on D85N mutant of BR in BLM and the effects of chloride - conf. Max-Planck Institute of Biophysics, **Frankfurt/Main, Germania**, 31 mai 1996.

8. The effects of dehydration on several mutant BRs (D96N, D212N si E204Q) - conferință SZBK, **Szeged, Ungaria**, 24 aprilie 1997.
9. Partial reactivation of a defective proton pump - International Workshop on "Ion transport and cellular signalling. General mechanisms and their alteration in pathologic and stress conditions", **Cluj -Napoca**, 18 octombrie 1997
10. The role of water in the extracellular half-channel of bacteriorhodopsin - conf. Max Planck Institute of Biophysics, **Frankfurt/Main, Germania** 18 iulie 1997
11. Proton pumping in D85N mutant of BR - conf. Max Planck Institut fuer Biochemie, **Martinsried, Muenchen**, Germania, 5 decembrie 1996.
12. Combined optical absorption and electrical measurements in the study of bacteriorhodopsin photocycle -Romanian -Hungarian Workshop with International Participation "Advanced optical techniques in biomedical research & applications", Predeal, sept. 11-13, 1994.
13. Role de la bactériorhodopsine en tant que pompe à protons - conf. Institutul de chimie fizica, **Pessac, Bordeaux, Franta**, oct. 1992.
14. **École d'été franco-roumaine de biophysique** " Proteines: structure, dynamique et fonction", **Bucarest**, 23-29 sept. 1991
15. The Effects of Deuteration on the Enzymatic System Luciferine-Luciferase - Cornell University, **New-York, SUA**, februarie 1984.

Cărți, manuale, capitole de cărți:

În țară:

1. **Curs de Biofizică Medicală**, Irina Băran,..., **Constanta Ganea**, Ed. Universitară "Carol Davila", ISBN 978-973-708-399-9, București 2009
2. **Curs de Biofizica Medicala**, **Constanta Ganea**, <http://biofizica-umfcd.ro>, 2004
3. **Elemente de Bioacustică** - **Constanta Ganea**, Ed. Genuine, 1999
4. **Electricitate** - **Constanta Ganea**, Ed. Universitară "C.Davila" 1999
5. **Biofizica Medicală** - I. Aricescu..., **C. Ganea**,..., C. Zaciuc, Ed. V. Vasilescu, Editura Didactică și Pedagogică, București, 1977.
6. Indreptar de lucrari practice de biofizica, 1972 (în colaborare)
7. Indreptar de lucrari practice si demonstratii de biofizica, 1975 (în colaborare)
8. Indreptar de lucrari practice si demonstratii de biofizica, 1977 (în colaborare)

Coordonator – Lucrari practice de Biofizica, Ed. Universitară "C.Davila" , 2005

În străinătate, co-autor

1. **"Membrane Processes, Molecular Biological Aspects and Medical Applications"** Vasilescu V., Katona E., Popescu A.I., Zaciuc C., **Ganea C** . Eds. G.Benga, H.Baum, F. Kummerow, Springer Verlag, New York, 1984, capitolul 5, p.93-107: Some problems concerning the role of water and protons in the function of biological membranes.

Citări independente in lucrări de specialitate

În străinătate, in reviste cotate ISI

Zoltán Bálint, Gergely A. Végh, Anca Popescu, Mihai Dima, **Constanta Ganea**, and György Váró, 2007, Direct observation of the protein motion during the photochemical reaction cycle of the bacteriorhodopsin, **Langmuir**, 23, 7225-7228

1. Braun T, Ghatkesar MK, Backmann N, et al., NATURE NANOTECHNOLOGY Volume: 4 Issue: 3 179-185 Published: MAR 2009

2. Ji HF, Gao HY, Buchapudi KR, et al., ANALYST Volume: 133 Issue: 4 Pages: 434-443, 2008

Meyer-Lipp K, N. Sery, **C. Ganea**, C. Basquin, G. Leblanc, K. Fendler, 2006, The inner interhelix loop 4-5 of the melibiose permease from E.coli takes part in conformational changes after sugar binding **Journal of Biological Chemistry**, 281 (36): 25882-25892

1. Krause R, Watzke N, Kelety B, et al. JOURNAL OF NEUROSCIENCE METHODS Volume: 177 Issue: 1 Pages: 131-141 Published: FEB 15 2009
2. Angers M, Uldry M, Kong D, et al. Source: BIOCHEMICAL JOURNAL Volume: 416 Pages: 347-355 Part: Part 3 Published: DEC 15 2008
3. Schulz P, et al., Source: METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 2008
4. Tadini-Buoninsegni F, Bartolomei G, Moncelli MR, et al. Source: ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS Volume: 476 Issue: 1 Pages: 75-86 Published: AUG 1 2008
5. Garcia-Celma JJ, Dueck B, Stein M, et al. Source: LANGMUIR Volume: 24 Issue: 15 Pages: 8119-8126 Published: AUG 5 2008
6. Bartolomei G, Tadini-Buoninsegni F, Moncelli MR, et al. Source: BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1778 Issue: 2 Pages: 405-413 Published: FEB 2008
7. Tyagi NK, Kumar A, Goyal P, et al. Source: BIOCHEMISTRY Volume: 46 Issue: 47 Pages: 13616-13628 Published: NOV 27 2007

Raunser S, Appel M, **Ganea C**, et al. **Structure and function of prokaryotic glutamate transporters from Escherichia coli and Pyrococcus horikoshii** BIOCHEMISTRY 45 (42): 12796-12805 OCT 24 2006

1. Groeneveld M, Slotboom DJ JOURNAL OF MOLECULAR BIOLOGY 372 (3): 565-570 SEP 21 2007
2. Schulz P et. al, METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 2008
3. Casagrande F, Ratera M, Schenk AD, et al. Source: JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 283 Issue: 48 Pages: 33240-33248 Published: NOV 28 2008
4. Wittig I, Schagger H Source: PROTEOMICS Volume: 8 Issue: 19 Pages: 3974-3990 Published: OCT 2008
5. Tadini-Buoninsegni F, Bartolomei G, Moncelli MR, et al. Source: ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS Volume: 476 Issue: 1 Pages: 75-86 Published: AUG 1 2008
6. Pinto A, Conti P, De Amici M, et al. Source: TETRAHEDRON-ASYMMETRY Volume: 19 Issue: 7 Pages: 867-875 Published: APR 17 2008
7. Massover WH Source: MICROSCOPY AND MICROANALYSIS Volume: 14 Issue: 2 Pages: 126-137 Published: APR 2008
8. Singh B, Rohm KH Source: MICROBIOLOGY-SGM Volume: 154 Pages: 797-809 Part: Part 3 Published: MAR 2008
9. Lemuh ND, Diallinas G, Frillingos S, et al. Source: PROTEIN EXPRESSION AND PURIFICATION Volume: 63 Issue: 1 Pages: 33-39 Published: JAN 2009

Meyer-Lipp K, **Ganea C**, Pourcher T, et al. **Sugar binding induced charge translocation in the melibiose permease from Escherichia coli** BIOCHEMISTRY 43 (39): 12606-12613 OCT 5 2004

1. Purhonen P, Lundback AK, Lemonnier R, et al. JOURNAL OF STRUCTURAL BIOLOGY 152 (1): 76-83 OCT 2005
2. Tadini-Buoninsegni F, Bartolomei G, Moncelli MR, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (49): 37720-37727 DEC 8 2006

3. Leon X, Lemonnier R, Leblanc G, et al. BIOPHYSICAL JOURNAL 91 (12): 4440-4449 DEC 2006
4. Quick M, Yano H, Goldberg NR, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (36): 26444-26454 SEP 8 2006
4. Bartolommei G, Tadini-Buoninsegni F, Hua SM, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (14): 9547-9551 APR 7 2006
5. Weitz D, Harder D, Casagrande F, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 282 (5): 2832-2839 FEB 2 2007
6. Tyagi NK, Kumar A, Goyal P, et al. Source: **BIOCHEMISTRY** Volume: **46** Issue: **47** Pages: **13616-13628** Published: **NOV 27 2007**
7. Schulz P et. al, METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 2008
8. Casagrande F, Ratera M, Schenk AD, et al. JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 283 Issue: 48 Pages: 33240-33248 Published: NOV 28 2008
9. Angers M, Uldry M, Kong D, et al. BIOCHEMICAL JOURNAL Volume: 416 Pages: 347-355 Part: Part 3 Published: DEC 15 2008
10. Tadini-Buoninsegni F, Bartolommei G, Moncelli MR, et al. Source: ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS Volume: 476 Issue: 1 Pages: 75-86 Published: AUG 1 2008
11. Garcia-Celma JJ, Dueck B, Stein M, et al. Source: LANGMUIR Volume: 24 Issue: 15 Pages: 8119-8126 Published: AUG 5 2008
12. Bartolommei G, Tadini-Buoninsegni F, Moncelli MR, et al. Source: BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1778 Issue: 2 Pages: 405-413 Published: FEB 2008
13. Harder D, Stolz J, Casagrande F, et al. Source: FEBS JOURNAL Volume: 275 Issue: 13 Pages: 3290-3298 Published: JUL 2008
14. Dave N, Lorenz-Fonfria VA, Lablanc G, et al. Source: BIOPHYSICAL JOURNAL Volume: 94 Issue: 9 Pages: 3659-3670 Published: MAY 1 2008

Júliánna Szakács, Melinda Lakatos, **Constanta Ganea** and György Váró, 2005, Kinetic isotope effects in the photochemical reaction cycle of ion transporting retinal proteins, *Journal of Photochemistry and Photobiology B*, 79: 145-150

1. Neumann K, Verhoefen MK, Weber I, et al. Source: BIOPHYSICAL JOURNAL Volume: 94 Issue: 12 Pages: 4796-4807 Published: JUN 15 2008

Zoltán Bálint, Melinda Lákátos, **Constanta Ganea**, Janos. K. Lanyi and György Váró, 2004, The nitrate transporting photochemical reaction cycle of the pharaonis halorhodopsin, ***Biophysical Journal***, vol.86, p. 1-9.

1. Guijarro J, Engelhard M, Siebert F. BIOCHEMISTRY 45 (38): 11578-11588 SEP 26 2006
2. Magyari K, Simon V, Varo G. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 82 (1): 16-20 JAN 2 2006
3. Roy S, Kulshrestha K. IEEE TRANSACTIONS ON NANOBIOSCIENCE 5 (4): 281-287 DEC 2006
4. Seki A, Miyauchi S, Hayashi S, et al. BIOPHYSICAL JOURNAL 92 (7): 2559-2569 APR 1 2007

Melinda Lakatos, Geza I. Groma, **Constanta Ganea**, Janos. K. Lanyi and Gyorgy Varo - Characterization of the Azide-Dependent Bacteriorhodopsin-Like Photocycle of Salinarum Halorhodopsin, ***Biophysical Journal***, vol.82, p. 1686-1795, 2002

1. Essen LO CURR OPIN STRUC BIOL 12 (4): 516-522 AUG 2002
2. Imasheva ES, Balashov SP, Wang JM, et al. BIOCHEMISTRY-US 43 (6): 1648-1655 FEB 17 2004
3. Oroszi L, Hasemann O, Wolff E, et al. BIOELECTROCHEMISTRY 60 (1-2): 97-106 AUG 2003
4. Nagy L, Milano F., Dorog M et al., Biochemistry 43 (40):12913-12923, 2004

5. Dorogi M, Balint Z, Miko C, et al. JOURNAL OF PHYSICAL CHEMISTRY B 110 (43): 21473-21479 NOV 2 2006

Ganea Constanta, Pourcher Thierry, Leblanc Gerard, and Fendler Klaus, 2001, Evidence for Intraprotein Charge Transfer during the Transport Activity of the Melibiose Permease from *Escherichia Coli*, **Biochemistry-US**, 40 (45):13744-13752.

1. Burzik C, Kaim G, Dimroth P, et al. BIOPHYSICAL JOURNAL 85 (3): 2044-2054 SEP 2003
2. Buoninsegni FT, Bartolommei G, Moncelli MR, et al., BIOPHYSICAL JOURNAL 86 (6): 3671-3686 JUN 2004
3. Bartolommei G, Buoninsegni FT, Moncelli MR, BIOELECTROCHEMISTRY 63 (1-2): 157-160 JUN 2004
4. Zhou A, Wozniak A, Meyer-Lipp K, et al., JOURNAL OF MOLECULAR BIOLOGY 343 (4): 931-942 OCT 29 2004
5. Zuber D, Krause R, Venturi M, et al. BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS 1709 (3): 240-250 SEP 30 2005
6. Leon X, Lemonnier R, et al. BIOPHYSICAL JOURNAL 91 (12): 4440-4449 DEC 2006
7. Kelety B, Diekert K, Tobien J, et al. ASSAY AND DRUG DEVELOPMENT TECHNOLOGIES 4 (5): 575-582 OCT 2006
8. Quick M, Yano H, Goldberg NR, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (36): 26444-26454 SEP 8 2006
9. Tadini-Buoninsegni F, Bartolommei G, Moncelli MR, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (49): 37720-37727 DEC 8 2006
10. Bartolommei G, Tadini-Buoninsegni F, Hua SM, et al. JOURNAL OF BIOLOGICAL CHEMISTRY 281 (14): 9547-9551 APR 7 2006
11. Weitz D, Harder D, Casagrande F, et al. Source: JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 282 Issue: 5 Pages: 2832-2839 Published: FEB 2 2007
12. Schulz P et. al, METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 12.2008
13. Tadini-Buoninsegni F, Bartolommei G, Moncelli MR, et al. Source: ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS Volume: 476 Issue: 1 Pages: 75-86 Published: AUG 1 2008
14. Garcia-Celma JJ, Dueck B, Stein M, et al. Source: LANGMUIR Volume: 24 Issue: 15 Pages: 8119-8126 Published: AUG 5 2008
15. Harder D, Stolz J, Casagrande F, et al. Source: FEBS JOURNAL Volume: 275 Issue: 13 Pages: 3290-3298 Published: JUL 2008
16. Bartolommei G, Tadini-Buoninsegni F, Moncelli MR, et al. Source: BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1778 Issue: 2 Pages: 405-413 Published: FEB 2008
17. Dave N, Lorenz-Fonfria VA, Lablanc G, et al. Source: BIOPHYSICAL JOURNAL Volume: 94 Issue: 9 Pages: 3659-3670 Published: MAY 1 2008

Constanta Ganea, Alexandru Babes, Christian Luepfert, Ernst Grell, Klaus Fendler and Ronald Clarke - Hofmeister Effects on the Kinetics of Partial Reactions of the Na⁺,K⁺- ATPase. *Biophysical Journal*, vol. 77, p. 267-281, 1999

1. Kalinin SV, Molotkovsky JG - J BIOCHEM BIOPH METH 46 (1-2): 39-51 NOV 20 2000
2. Winterhalter M - CURR OPIN COLLOID IN 5 (3-4): 250-255 JUL 2000
3. Sokolov VS et al. - EUR BIOPHYS J BIOPHY 30 (7): 515-527 DEC 2001
4. Bamberg E. et al. - J BIOENERG BIOMEMBR 33 (5): 401-405 OCT 2001
5. Passechnik VI, Sokolov VS BIOELECTROCHEMISTRY 55 (1-2): 47-51 JAN 2002
6. Buoninsegni FT, Dolfi A, Guidelli R, COLLECT CZECH CHEM C 69 (2): 292-308 2004
7. Fedosova NU, Esmann M, BIOCHEMISTRY 43 (14): 4212-4218 APR 13 2004
8. Starke-Peterkovic T, Turner N, Else PL, et al., AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY 288 (3): R663-R670 MAR 2005
9. Esmann M, Fedosova NU, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 33 (8): 683-690 DEC 2004

10. Ayuyan AG, Sokolov VS, Apell HJ, BIOLOGICHESKIE MEMBRANY 21 (5): 406-414 SEP-OCT 2004
11. Starke-Peterkovic T, Turner N, Vitha MF, et al. BIOPHYSICAL JOURNAL 90 (11): 4060-4070 JUN 2006
12. Ayuyan AG, Sokolov VS, Lenz AA, et al. EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 35 (3): 247-254 FEB 2006

Ludmann K, **Ganea C**, Varo G - Back photoreaction from intermediate M of bacteriorhodopsin photocycle **Journal of Photochemistry and Photobiology, B -BIOLOGY** 49: (1) 23-28 MAR 1999

1. Balashov SP - BBA-BIOENERGETICS 1460: (1) 75-94 Sp. Iss. SI AUG 30 2000
2. Balashov SP, Sumi M, Kamo N - BIOPHYS J 78: (6) 3150-3159 JUN 2000
3. Der A, Keszthelyi L . - BIOCHEMISTRY-MOSCOW+ 66 (11): 1234-1248 NOV 2001
4. Groma GI et al. - BIOPHYS J 81 (6): 3432-3441 DEC 2001
5. Li ML et al. - LANGMUIR 16 (12): 5503-5505 JUN 13 2000
6. Tokes S, Orzo L, Ayoub A, et al., J. OF CIRCUITS SYSTEMS AND COMPUTERS 12 (6): 739-767 DEC 2003
7. He T, Friedman N, Cahen D, et al., ADVANCED MATERIALS 17 (8): 1023+ APR 18 2005
8. Toth-Boconadi R, Der A, Taneva SG, et al. BIOPHYSICAL JOURNAL 90 (7): 2651-2655 APR 2006

C.Ganea, J.Tittor, E. Bamberg and D. Oesterhelt - Chloride and pH -dependent proton transport by BR mutant D85N, **Biochim. Biophys. Acta**, 1998.

1. L. S. Brown et al. (1998) Biophys. J., 75, 1455-1465
2. Steinhoff et al. (1999) Biophys.J., 76, 2702-2710
3. Hong FT Interfacial photochemistry of retinal proteins PROG SURF SCI 62: (1-6) 1-237 SEP-NOV 1999
4. Schmies G, Luttenberg B, Chizhov I, et al. Sensory rhodopsin II from the haloalkaliphilic Natronobacterium pharaonis: Light-activated proton transfer reactions BIOPHYS J 78: (2) 967-976 FEB 2000
5. Lanyi JK Bacteriorhodopsin INT REV CYTOL 187: 161-202 1999
6. Lanyi JK - J PHYS CHEM B 104 (48): 11441-11448 DEC 7 2000
7. Balashov SP - BBA-BIOENERGETICS 1460: (1) 75-94 Sp. Iss. SI AUG 30 2000
8. Wang JP - PHOTOCHEM PHOTOBIOLOG 71: (4) 476-480 APR 2000
9. Dolfi A, Tadini-Buoninsegni F, Moncelli MR, et al. LANGMUIR 18 (16): 6345-6355 AUG 6 2002
10. Horn C, Steinem C. BIOPHYSICAL JOURNAL 89 (2): 1046-1054 AUG 2005
11. Lenz MO, Woerner AC, Glaubit C, et al. PHOTOCHEMISTRY AND PHOTOBIOLOGY 83 (2): 226-231 MAR-APR 2007

C. Ganea, C. Gergely, K. Ludmann and G. Varo - The role of water in extracellular half-channel of bacteriorhodopsin - **Biophysical Journal**, vol., 1997.

1. D. Oesterhelt (1998) Curr. Op. Str. Biol. P. 489-
2. J. Fitter et al. (1998) FEBS.Lett, 433, p. 321-
3. Li ML, Li BF, Jiang L, et al. LANGMUIR 16: (12) 5503-5505 JUN 13 2000
4. Korchemskaya EY, Stepanchikov DA, Dyukova TV OPT MATER 14: (2) 185-191 MAY 2000
5. Betancourt FMH, Glaeser RM BBA-BIOENERGETICS 1460: (1) 106-118 Sp. Iss. SI AUG 30 2000
6. Seitz A, Hampp N J PHYS CHEM B 104: (30) 7183-7192 AUG 3 2000
7. P. Kietis (2001) Biophys. J. 80. 1631-1640
8. Lukashov EP, Seifullina NK, Kolodner P - BIOL MEMBRANY 18 (2): 137-144 MAR-APR 2001
9. Groma GI et al. - BIOPHYS J 81 (6): 3432-3441 DEC 2001
10. Der A, Keszthelyi L . - BIOCHEMISTRY-MOSCOW+ 66 (11): 1234-1248 NOV 2001
11. Jussila T, Li ML, Tkachenko NV, et al. - BIO BIOSENS BIOELECTRON 17 (6-7): 509-515 JUN 2002

12. Oka T, Yagi N, Tokunaga F, et al. BIOPHYS J 82 (5): 2610-2616 MAY 2002
13. Lazarova T, Sanz C, Sepulcre F, et al. BIOCHEMISTRY-US 41 (25): 8176-8183 JUN 25 2002
14. Sackmar et al., Annu.Rev.Biophys.Biomol. Struct. 2002, 31:443-84
15. Liang B, Li BF, Zhang JP, et al. NEW JOURNAL OF CHEMISTRY 26 (8): 1049-1053 2002
16. Xu J, Stickrath AB, Bhattacharya P, et al. BIOPHYSICAL JOURNAL 85 (2): 1128-1134 AUG 2003
17. Xu J, Bhattacharya P, Varo G BIOSENSORS & BIOELECTRONICS 19 (8): 885-892 MAR 15 2004
18. Lakatos M, Varo G JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 73 (3): 177-182 FEB 20 2004
19. Colonna A, Groma GI, Vos MH CHEMICAL PHYSICS LETTERS 415 (1-3): 69-73 OCT 24 2005
20. Wang WW, Knopf GK, Bassi AS BIOSENSORS & BIOELECTRONICS 21 (7): 1309-1319 JAN 15 2006
21. Wang WW, Knopf GK, Bassi AS OPTICAL ENGINEERING 45 (8): Art. No. 084001 AUG 2006
22. Lukashev EP, Pronskaya NA BIOLOGICHESKIE MEMBRANY 23 (1): 14-20 JAN-FEB 2006
23. Morgan JE, Gennis RB, Maeda A Source: PHOTOCHEMISTRY AND PHOTOBIOLOGY Volume: 84 Issue: 4 Pages: 1038-1045 Published: JUL-AUG 2008

Ganea C., C. Gergely and G. Varo - Substates in bacteriorhodopsin photocycle. Electro and Magnetobiology, 33, 3178-3184, 1995.

1. G. Harms and C. Johnson (1997) Photochemistry and Photobiology, 66(1), p. 133-139

Csilla Gergely, **Constanta Ganea**, Sandor Szaraz and Gyorgy Varo. The charge motions studied in the bacteriorhodopsin mutants D85N and D212N. **Journal of Photochemistry and Photobiology**, B 27: 27-32, 1995.

1. Kaulen AD -BBA-BIOENERGETICS 1460: (1) 204-219 Sp.Iss. SI AUG 30 2000
2. Wang JP - PHOTOCHEM PHOTOBIOLOG 71: (4) 476-480 APR 2000
3. Hein M, Radu I, Klare JP, et al. BIOCHEMISTRY-US 43 (4): 995-1002 FEB 3 2004

Gergely Cs., **Ganea C.**, Varo G. - Combined optical and photoelectric study of the photocycle of 13-cis bacteriorhodopsin. *Biophysical Journal*, vol.67, 855-861, 1994

1. Logunov (1995) Biophys. J. 68:1270-1282
2. St. Moltke et al. (1995) Israel J. of Chemistry, vol 35, p. 401-414
3. K. Schulten et al. (1995) Israel J. of Chemistry, vol 35, p. 447-464
4. S. Misra et al. (1997) Photochemistry and Photobiology, 65 (8), p.1039-1044P.
5. Ormos et al. (1997) J. Photochem.Photobiol. B, 101, 10542
6. C. Zscherp et al. (1997) J. Phys. Chem. B 101, 10542
7. Kaulen AD BBA-BIOENERGETICS 1460: (1) 204-219 Sp. Iss. SI AUG 30 2000
8. Der A, Keszthelyi L. - BIOCHEMISTRY-MOSCOW+ 66 (11): 1234-1248 NOV 2001
9. Vanhanen J. et al. - OPT REV 8 (5): 368-372 SEP-OCT 2001
10. Groma GI et al. - BIOPHYS J 81 (6): 3432-3441 DEC 2001
11. Jussila T, Li ML, Tkachenko NV, et al. - BIO BIOSENS BIOELECTRON 17 (6-7): 509-515 JUN 2002
12. Lukacs A, Papp E, JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 77 (1-3): 1-16 DEC 2 2004
13. Korchemskaya E, Burykin N, Bugaychuk S, et al. PHOTOCHEMISTRY AND PHOTOBIOLOGY 83 (2): 403-408 MAR-APR 2007
14. Nishikawa T, Murakami M, Kouyama T JOURNAL OF MOLECULAR BIOLOGY 352 (2): 319-328 SEP 16 2005

Csilla Gergely, **Constanta Ganea**, Geza Groma and Gyorgy Varo, 1993. Study of the photocycle and charge motions of the bacteriorhodopsin mutant D96N. **Biophysical Journal**, vol.68, p.2478-2483.

1. L. Brown et al. (1994), Biochemistry, 33:12001-12011
2. L. Scharnagle (1994) Int. J. Quantum Chem. 21:33-56
3. J.F. Nagle (1995) Biophys. J. 68:1490-1499
4. St. Moltke et al. (1995) Israel J. of Chemistry, vol 35, p. 401-414
5. A. Der et al. (1999) PNAS, 96, p. 2776-2781K.
6. Zimanyi et al. (1999) PNAS, 96, 4408-4413K.
7. L. Zimanyi et al. (1999) PNAS, 96, 4414-4419
8. Hong FT Interfacial photochemistry of retinal proteins PROG SURF SCI 62: (1-6) 1-237 SEP-NOV 1999
9. Kaulen AD BBA-BIOENERGETICS 1460: (1) 204-219 Sp. Iss. SI AUG 30 2000
10. Kulcsar A, Groma GI, Lanyi JK, et al. - BIOPHYS J 79 (5): 2705-2713 NOV 2000
11. Kulcsar A, Saltiel J, Zimanyi L - J AM CHEM SOC 123 (14): 3332-3340 APR 11 2001
12. R. Toth-Boconadi et al. - (2001) Eur. Biophys. J. 30. 140-146
13. Der A, Keszthelyi L. - BIOCHEMISTRY-MOSCOW+ 66 (11): 1234-1248 NOV 2001
14. Dioumaev AK - BIOCHEMISTRY-MOSCOW+ 66 (11): 1269-1276 NOV 2001
15. Groma GI et al. - BIOPHYS J 81 (6): 3432-3441 DEC 2001
16. Bhattacharya P, Xu JA et al. - OPT LETT 27 (10): 839-841 MAY 15 2002
17. Zimanyi L, JOURNAL OF PHYSICAL CHEMISTRY B 108 (13): 4199-4209 APR 1 2004
18. Lukacs A, Papp E, JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 77 (1-3): 1-16 DEC 2 2004
19. Zimanyi L, JOURNAL OF PHYSICAL CHEMISTRY B 108 (13): 4199-4209 APR 1 2004
20. Tsunoda SP, Ewers D, Gazzarrini S, et al. BIOPHYSICAL JOURNAL 91 (4): 1471-1479 AUG 15 2006
21. Zimanyi L, Saltiel J, Brown LS, et al., JOURNAL OF PHYSICAL CHEMISTRY A 110 (7): 2318-2321 FEB 23 2006
22. Magyari K, Simon V, Fan Y, et al. Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 2 Issue: 3 Pages: 265-269 Published: SEP 2007

Ganea C. - Deuteration in Bioenergetics - American-Romanian Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bandera, Texas, SUA, 1984.

2. D.W. Deamer (1985), Journal of Bioenergetics and Biomembranes, vol.17, no.6, p.395-399

E. Chirieri, I. Aricescu, **C. Ganea** and V. Vasilescu - The effect of deuteration on frog retina bioelectrogenesis; Naturwissenschaften, v.164, p.149, 1977:

1. Tasaki: Biophysical J., 50, 285, 1986,

Citări în țară:

C. Ganea, Cercetări privind mecanismele conversiei și transformării de energie în procesele de bioluminescență, Teza de doctorat, Fac. De Fizică, București, 1980.

1. Victor Gheorghe, Aurel Popescu - Introducere în bionică, Ed. Științifică, București, 1990, p. 309
- I. Aricescu, Tr. Baran,..., **C. Ganea**,..., C. Zăciu - Biofizica Medicală (sub redacția V. Vasilescu), Ed. Didactică și Pedagogică, București, 1977.
2. D.-G. Mărgineanu, M. Isac, C. Tarba - Biofizică, Ed. Didactică și Pedagogică, București, 1980, p. 44.
3. Victor Gheorghe, Aurel Popescu - Introducere în bionică, Ed. Științifică, București, 1990, p. 317
4. Constantin Dimoftache, Sonia Herman - Biofizica medicală, Ed. Cerma, București, 1993, p. 541

Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.