

## **CURRICULUM VITAE**

**Dr. Constanța Ganea**

**Profesor universitar**

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

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### **STUDII:**

1950 -1961 Liceul Doamna Stanca, Fağăraș

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 CNCSIS 251: Mecanisme complexe de interferenta in patogenia nicotinică a bolilor neurodegenerative – efecte reglatoare la nivel celular si subcelular ale compusilor naturali galantamina si 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 **CNCSIS 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 CNCSIS, **Grant CNCSIS 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 CNC SIS 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 CNC SU:1392/1996), **contract 7024/1997**(MEI, cod CNC SU:1466/1997), **contract 6/1998** (MEI, cod CNC SU: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 vârsta 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<sup>+</sup>,K<sup>+</sup>-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, D<sub>2</sub>O 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 Ca<sup>2+</sup> 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, 28<sup>th</sup> 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 antimetabolic 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 D<sub>2</sub>O 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 D<sub>2</sub>O 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, Suppl.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. Medicala), 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.
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**Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.**