

CURRICULUM VITAE

Dr. Constanța Ganea
Profesor universitar

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, Fagăraș
1962-1967 Facultatea de Fizică, Universitatea București
1980 Doctor în Fizică, Facultatea de Fizică, Universitatea București

LIMBI STRAINE: engleza, franceza, germana, rusa

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 Scoala 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 - 2008, anual 3-4 luni, anual 2-3 săptămâni 2009 - prezent, 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, președinte al Consiliului Național de Etică a Cercetării Științifice Dezvoltării Tehnologice și Inovării 2011-2012.

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

Theoretical Chemistry Accounts (ISI)
Romanian Biotechnological Letters (ISI)

Distincții: Profesor Bologna , ANOSR; 2009, Who's Who in the World 2010, 100 Top Scientists 2011, Medalia comemorativa George Emil Palade, 2012, **Articolul** Quercetin as a fluorescent probe for the Ryanodine receptor activity in Jurkat cells, *Pfluegers Archiv, European Journal of Physiology*, 2013 a primit distincția Global Medical Discovery, articole cheie, raportând prima măsurătoare in vivo a activității unui receptor/canal de calciu. 2015-**distincția „Global Medical Discovery”** la secțiunea „Key Scientific Articles” (<https://globalmedicaldiscovery.com/uncategorized/novel-insights-antiproliferative-effects-synergism-quercetin-menadione-human-leukemia-jurkat-t-cells/novel-insights-antiproliferative-effects-synergism-quercetin-menadione-human-leukemia-jurkat-t-cells/>) features breaking research judged to be of key importance in science and medicine”) pentru articolul din Leukemia Research 2014.

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

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

b) Proiecte naționale

Proiect **PN II, Idei, nr. 342/2011**, cod PN-II-ID-PCE-2011-3-0800, Studiu asupra mecanismelor de acțiune moleculare și celulare ale EGCG și quercetinei ca potențiali agenți chemoterapeutici în celulele leucemice umane Jurkat-T, Perioada contractului: 2011-2014, Finantare buget 1485000 lei.

Proiect **PN II, Idei, nr. 326/2007**, cod CNCISIS 251: Mecanisme complexe de interferență în 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 ȘI SUBCELULARE ALE UNOR ANTIOXIDANȚI NATURALI ÎN CONDITII NORMALE ȘI 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. Implicații în apoptoză. 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 cooperare bilaterala Romano-Slovac, SK-RO-0016-12, PNII Capacități 2007-2013, **Investigation of the amyloidogenic proteins in relationship with their cytotoxic**

effect, Perioada contractului: 2013-2014; UMF Carol Davila (Director Proiect Sef lucrari Dr. Magda Mocanu)

Proiect de cooperare bilaterala Romano-Slovac, PNII Capacități 2007-2013 **Investigarea agregatelor lizozim de tip amilod prin tehnici *in vitro* și analiza efectului acestora asupra viabilității și proliferării celulare** Perioada contractului: 2011-2012; UMF Carol Davila (Director Proiect Dr. Magda Mocanu)

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 membranelor excitabile”(1984-1985)

b) Proiecte naționale

Proiect TE PN-II-RU-TE-2014-4-0604, nr. 68/1.10.2015, “Caracterizarea funcțională și farmacologică a sistemelor de antiport Na^+/H^+ din *Klebsiella pneumoniae*”, Perioada contractului: 2015-2017; UMF Carol Davila (Director Proiect Sef lucrari Dr. Octavian Calinescu)

Proiect TE 111/2011 PNII 2007-2013, Complex investigations on the polyphenols effects in modulating the relationship among ErbB proteins, cell cycle progression and apoptosis in mammary and epidermoid carcinoma, Perioada contractului: 2011-2014; UMF Carol Davila (Director Proiect Dr. Magda Mocanu)

Proiect Idei – PNII 2007-2011, **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) 347343 RON

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 vârsta a proprietăților membranelor și ale unor componente membranare funcționale implicate în mekansimele 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); 1 săptămână Institute Marie-Haps, Bruxelles 1998: 2 săptămâni în Polonia, Universitatea Tehnico-Agricolă din Olsztyn-Kortowo (Prof. Dr. K. Bryl) 1998 ; REQUIMTE, 2007, septembrie 2 săptămâni Universidad Nova, Lisabona (prof. Dr. Teresa Moura); 1994-2010, stagii de 2-5 luni anual în Germania, Institutul Max-Planck de Biofizică, Frankfurt/Main (prof. Dr. Ernst Bamberg, director), 2011-2012 stagii de 2 saptamani anual în Germania, Institutul Max-Planck de Biofizică, Frankfurt/Main (prof. Dr. Ernst Bamberg, director).

Lista publicațiilor

În reviste ISI (Web of Knowledge): (h-index 13)(ResId A-8561-2011)

1. Ramona Madalina Babes, Ioana Teodora Tofolean, Roxana Gabriela Sandu, Oana Elena Baran, Vlad Cosoreanu, Maria Teodora Ilie, Alexandru Ionut Duta, Maria Catalina Ceausescu, Paul Mihai Ciucur, Simona Costache, **Constanta Ganea**, Irina Baran, Simple

discrimination of sub-cycling cells by propidium iodide flow cytometric assay in Jurkat cell samples with extensive DNA fragmentation, **Cell Cycle**, Accepted, 29 Oct 2017, Accepted author version posted online: 13 Dec 2017(**if. 3.53, is. 1.421**)

2. Alexandru Filippi, Nicoleta Măru, Mariana Carmen Chifiriuc, Constanța Ganea, Maria-Magdalena Mocanu, Anticancer effects of curcumin in luminal B and HER2 breast cancer cell line models, **Romanian Biotechnological Letters**, DOI: 10.26327/RBL2017.41, 2017 (**IF. 0.396**)(**is 0.115**)
3. Alexandru Filippi, Tiphane Picot, Carmen Mariana Aanei, Péter Nagy, János Szöllősi, Lydia Campos, **Constanța Ganea**, Maria-Magdalena Mocanu, Epigallocatechin-3-O-gallate decreases mitochondrial membrane potential and partially reduces the expression level of phosphorylated ErbB downstream signaling proteins in epidermoid and breast cancer cell lines, **International Journal of Food Sciences and Nutrition**, DOI : 10.1080/09637486.2017.1401980, 2017 (**if. 1.444, is. 0.978**)
4. Oana-Alina Ciolac, Alexandru Filippi, Nicoleta Măru, Marcela Popa, Mariana Carmen Chifiriuc, Constanța Ganea, Maria-Magdalena Mocanu, Reduction of the clonogenic potential and collapse of the mitochondrial membrane potential in A-431 epidermoid carcinoma cell line induced by curcumin, **Romanian Biotechnological Letters**, acceptat 2017 (**IF. 0.396**)(**is 0.115**)
5. Patino-Ruiz, Miye; **Ganea, Constanta**; Fendler, Klaus; Octavian Calinescu, Competition is the basis of the transport mechanism of the NhaB Na⁺/H⁺ exchanger from *Klebsiella pneumoniae*, **PLOS ONE**, Volume:12, Issue: 7, Article Number: e0182293, Published: Jul 27 2017 (**if. 2.806, is. 1.962**)
6. Alexandru Filippi, Oana-Alina Ciolac, **Constanța Ganea**, and Maria-Magdalena Mocanu, ErbB Proteins as Molecular Target of Dietary Phytochemicals in Malignant Diseases, **Journal of Oncology**, Volume 2017 (2017), Article ID 1532534, 20 pages <https://doi.org/10.1155/2017/>
7. Ioana Teodora Tofolean, **Constanta Ganea**, Diana Ionescu, Alexandru Filippi, Alexandru Garaiman, Alexandru Goicea, Mihnea-Alexandru Gaman, Alexandru Dimancea, Irina Baran, Cellular determinants involving mitochondrial dysfunction, oxidative stress and apoptosis correlate with the synergic cytotoxicity of epigallocatechin-3-gallate and menadione in human leukemia Jurkat T cells, **Pharmacological Research**, DOI information: 10.1016/j.phrs.2015.12.013, Volume 103, January 2016 pp. 300-317 (**IF.4.408**)(**is1.170**)
8. A. Iftime, **C. Ganea**, A. Popescu Rightmire, Interference of coumarin with the insertion of lyotropic anions and cadmium in artificial lipid bilayers, **Romanian Biotechnological Letters**, Vol. 20, No. 4, 2015 (**IF. 0.404**)(**is 0.115**)
9. Lentjes, Christopher J.; Mir, Syed H.; Boehm, Marc, **Ganea C.**, Fendler K, Hunte C., Molecular Characterization of the Na⁺/H⁺-Antiporter NhaA from *Salmonella Typhimurium*, **PLOS ONE** Volume: 9 Issue: 7 Article Number: e101575 Published: JUL 10 2014 (if. 3.534, is. 2.563)
10. Irina Baran, Diana Ionescu, Simona Privitera, Agata Scordino, Maria Magdalena Mocanu, Francesco Musumeci, Rosaria Grasso, Marisa Gulino, Magdalena Mocanu, Adrian Iftime, Ioana Teodora Tofolean, Alexandru Garaiman, Alexandru Goicea, Ruxandra Irimia, Alexandru Dimancea, **Constanta Ganea**, *Mitochondrial respiratory Complex I probed by delayed luminescence spectroscopy*, **JOURNAL OF BIOMEDICAL OPTICS**, 2013, (accepted Nov. 2013) *J. Biomed. Opt.* 18 (12), 127006 (December 23, 2013);doi: 10.1117/1.JBO.18.12.127006 (**IF 2.752**) (**is. 1.910**)
11. Irina Baran, Diana Ionescu, Alexandru Filippi, Maria Magdalena Mocanu, Adrian Iftime, Ramona Babes, Ioana Teodora Tofolean, Ruxandra Irimia, Alexandru Goicea, Valentin Popescu, Alexandru Dimancea, Andrei Neagu, **Constanta Ganea**, Novel insights into the

antiproliferative effects and synergism of quercetin and menadione in human leukemia Jurkat T cells, , **Leukemia Research**, Leukemia Research, 2014, Volume: 38 Issue: 7 Pages: 836-849 Published: JUL 2014 (IF 2.692) (is.0.950)

12. Agata Scordino, Irina Baran, Marisa Gulino, Constanta Ganea, Rosaria Grasso, J. Hugo Niggli, Francesco Musumeci, Ultra-weak Delayed Luminescence in cancer research: A review of the results by the ARETUSA equipment, *Journal of Photochemistry and Photobiology B: Biology* 139 , pp. 76-84 (2014)(IF 2.803) (is. 0.843)
13. Mocanu MM, **Ganea C**, Siposova K, Filippi A, Demjen E, Marek J, Bednarikova Z, Antosova A, Baran I, Gazova Z, Polymorphism of lysozyme amyloid fibrils influences the cytotoxicity in LLC-PK1 epithelial kidney cells, 2014, **International Journal of Biological Macromolecules**, 65 PP. 176 - 187 doi: 10.1016/j.ijbiomac.2014.01.030 (if.2.596, is.0.618), <http://www.sciencedirect.com/science/article/pii/S0141813014000312>
14. M.M. Mocanu, **C. Ganea**, L. Georgescu, T. Varadi, D. Shrestha, I. Baran, E. Katona, P. Nagy, J. Szöllösi, *Epigallocatechin-gallate determines ErbB proteins downregulation, cell death mediated by 67kDa laminin receptor and altered lipid order in mammary and epidermoid carcinoma cells*, **J. NAT. PROD.**, Volume: 77 Issue: 2 Pages: 250-257 Published: FEB 2014 (if. 3.947, is. 2.158)
15. D. Ionescu, D. Margina, M. Ilie, A. Iftime, **C. Ganea**, **Food and Chemical Toxicology**, Quercetin and epigallocatechin-3-gallate effect on the anisotropy of model membranes with cholesterol, 2013, 61 pp. 94 - 100 doi: 10.1016/j.fct.2013.03.007 (if. 2.610, is. 2.006)
16. Mocanu Maria-Magdalena, Surcel Mihaela, Ursaciuc Cornel, Katona Eva, **Ganea Constanta**, *Antiproliferative effect of quercetin in mammary and epidermoid cancer*, **ROMANIAN BIOTECHNOLOGICAL LETTERS**, 2013, vol. 18, no. 6, pp. 8796-8803, (IF. 0.351)(is 0.115)
17. Irina Baran, Constanta Ganea, *RyR3 in situ regulation by Ca²⁺ and quercetin and the RyR3-mediated Ca²⁺ release flux in intact Jurkat cells*, **ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS**, 540 (2013) 145–159, , ISSN 0003-986 IF. 3.043) (is. 1.285)
18. Irina Baran, Eva Katona, **Constanta Ganea**, Quercetin as a fluorescent probe for the Ryanodine receptor activity in Jurkat cells, *Pfluegers Archiv, European Journal of Physiology*, 2013, DOI 10.1007/s00424-013-1235-y, Volume: 465 Issue: 8 Pages: 1101-1119 (if. 4.866, is. 1.81682)
19. Diana Ionescu & **Constanta Ganea**, A study of quercetin effects on phospholipid membranes, *Eur Biophys J*. DOI 10.1007/s00249-011-0786-0, 2012, ISSN 0175-7571, vol. 41, nr. 3, pp. 307-318, if. 2.274, is. 0.896 (rel. is. 1.028)
20. Baran, Irina; **Ganea, Constanta**; Privitera, Simona; Agata Scordino, Vincenza Barresi, Francesco Musumeci, Maria Magdalena Mocanu, Daniele F. Condorelli, Ioan Ursu, Rosaria Grasso, Marisa Gulino, Alexandru Garaiman, Nicolò Musso, Giuseppe A. Pablo Cirrone, Giacomo Cuttone, Detailed Analysis of Apoptosis and Delayed Luminescence of Human Leukemia Jurkat T Cells after Proton Irradiation and Treatments with Oxidant Agents and Flavonoids, **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY** Article Number: 498914 DOI: 10.1155/2012/498914 Published: 2012, if. 3.393, is. 0.779 (is)
21. Denisa Margina Mihaela Ilie, Gina Manda, Ionela Neagoe, Magdalena Mocanu, Diana Ionescu, Daniela Gradinaru, **Constanța Ganea**, Quercetin and epigallocatechin gallate effects on the cell membranes biophysical properties correlate with their antioxidant potential, **General Physiology and Biophysics**, Issue No. 1, Vol. 31, 2012. if. 0.852, is. 0.294 (rel.is 0.4199)
22. Baran, I; **Ganea, C**; Ungureanu, R, I.T. Tofolean, Signal mass and Ca²⁺ kinetics in local calcium events: a modelling study, **Journal of Molecular Modeling**, 2011, DOI:

23. **C. Ganea**, K. Meyer-Lipp, R. Lemonnier, A. Krah, G. Leblanc and K. Fendler, G117C MelB, a mutant melibiose permease with a changed conformational equilibrium, *Biochim.Biophys. Acta* (2011), doi:10.1016/j.bbamem.2011.07.017, 1808 (2011),2508-2516, **if. 4.647, infl.s. 1.73266 (rel. is. 1.66)**
24. Baran, I, **C. Ganea** I. Ursu, V. Baran, O Calinescu, A. Iftime, R. Ungureanu, I.T. Tofolean, Fluorescence properties of quercetin in human leukemia Jurkat_T cells, *Rom. J. of Physics* Volume 56, no. 3-4, 388-398, 2011, **if.0.340**
25. A. Popescu, A. Bicho, **C. Ganea**, Effects of Quercetin on Muscle-Type Nicotinic Receptor Activation and Desensitization, *Rom. Biotechnol. Lett*, 2011, 16(2), 6062-6071, **if.0. 219**
26. Băran I, **C. Ganea**, Musumeci, Francesco, Barresi, Vincenza; Tudisco, Salvatore; Privitera, Simona; Grasso, Rosaria; Condorelli, Daniele F.; Ursu, Ioan; Baran, Virgil; Katona, Eva; Mocanu, Maria-Magdalena; Gulino, Marisa; Ungureanu, Raluca; Surcel, Mihaela; Ursaciuc, Cornel, Effects of Menadione, Hydrogen Peroxide, and Quercetin on Apoptosis and Delayed Luminescence of Human Leukemia Jurkat T-Cells, *Cell Biochemistry and Biophysics*, 58: 169-179 (2010), **if. 4.312, infl.s. 1.064**
27. A.Iftime, A. Popescu, **C. Ganea**, On the mechanisms of galantamine interaction with artificial lipid bilayers, *Rom. Biotechnol. Lett*, 2010, 15 (6), 5820-5828, **if.0. 219**
28. Magda Dragusin, Laura Tugulea and **Constanta Ganea**. The effects of the natural antioxidant quercetin and anions of the Hofmeister series on liposomes marked with chlorophyll a, *General Physiology and Biophysics*, 2010 Mar;29(1):41-49, **impact f.1.146, is 0.308**
29. D. Ionescu, M. Dragusin, A Popescu, M. Dima, **C. Ganea**. On the hypericin interaction with the artificial lipid membrane in the presence of lyotropic anions, *ROMANIAN REPORTS IN PHYSICS*, Volume 1, Number 62, pp. 152-168, 2010, **if. 0.494**
30. Ilie Mihaela, Margina Denisa, Katona Eva, **Ganea Constanta**, Cornelia Pencea, Maria Vladica, Gradinaru Daniela, Mitrea Niculina, Balalau Dan, Quercetin and epigallocatechin gallate effect on the lipid order parameter of peripheral blood mononuclear cells from diabetes patients. *ROMANIAN BIOTECHNOLOGICAL LETTERS* Volume: 14 nr. 6Pages:4804-4811, 2009, **if.0.219**
31. **Constanta Ganea** and Klaus Fendler, Bacterial transporters: Charge translocation and mechanism, *BBA – Bioenergetics*, doi:10.1016/j.bbabi.2009, vol. 1787, Issue 6, pp. 706-713, Jun 2009, **if. 3.688, infl.s. 1.71924. (rel. is. 1.84387)**
32. 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, **if. 0.152**
33. 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, pp. 557-569, **if. 0.279.**
34. Baran I., **Ganea C.**, Baran V. Numerical studies on the activity of the muscle calcium channel. *ROMANIAN REPORTS IN PHYSICS*, Volume 61, Number 3, 2009 , pp. 547-555, **if. 0.458**
35. Irina Băran, **Constanța Ganea**, Virgil Băran, A two gate model for the ryanodine receptor with allosteric modulation by caffeine and quercetin, *European Biophysics*

36. 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, **if. 4,009, infl.s. 3.85781**
37. 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, **if. 5,854, infl.s. 2.466889**
38. 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, **if.3,848, infl.s. 1.46**
39. 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, **if. 1,835, infl.s. 0.60403**
40. 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, , **if.3,848, infl.s. 1.46** .
41. 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, **if. 4.507, infl.s. 2.14653**.
42. 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, **if. 4,643, infl.s. 2.14653**.

43. **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, **if. 4,114, infl.s. 1.46**.
44. 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, **if. 1,835, infl.s. 0.60403**.
45. **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, **if. 4,58, infl.s. 2.14653**.
46. **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, **if. 2,478, infl.s. 1.73266**.
47. **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, **if. 4,332, infl.s. 2.14653**.
48. **Ganea C.**, Gergely Cs., Varo G. , 1995, Substates in bacteriorhodopsin photocycle. *Electro- and Magnetobiology*, 14 (3), 229-241, **if. 1,075**.

49. 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, if. 1,668, infl.s. 0.60403.
50. 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, if. 4,247, infl.s. 2.14653.
51. 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, if. 4,385, infl.s. 2.14653.
52. **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, if. 1,887, infl.s. 0.93624.
53. Vasilescu V., **Ganea C.**, 1986, Deuteration, a tool for investigation of biosystems - *Studia Biophysica*, 111, 143, if. 0,63.
54. **Ganea C.**, Vasilescu V., 1981, D2O effects on the kinetic and thermodynamic parameters of fire fly bioluminescence - *Studia Biophysica*, 84, 59, if. 0,63.
55. Chirieri E., Aricescu I., **Ganea C.** and Vasilescu V., 1977, The effect of deuteration on frog retina bioelectrogenesis; *Naturwissenschaften* (Springer Verlag), 164:149-150, if. 1,163, infl.s. 1.939.

In baze de date internationale BDI (ISI Web of Knowledge, Medline, Index Copernicus)

56. **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.
57. 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. .
58. 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. .
59. 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.
60. Popescu, A., A. Iftime, C. Ganea, Possible protective effect of quercetin against heavy metals insertion in lipid bilayers, *Rom. J. Biophys.* (Index Copernicus) 2011 21(3):167-178
61. Adrian Iftime, Anca Popescu, **Constanta Ganea** (2010) *Effects of epigallocatechin gallate on artificial lipid membranes. Romanian Journal of Biophysics*, 20(4) 323-334; indexata in IndexCopernicus; ISSN: 1220-515X
62. A. Popescu, A. Iftime, **C. Ganea**, *Ginkgolide B effects on artificial lipid membranes*, *Rom. J. Biophys.* 2010 vol 20 no.4, pp 283-293 IndexCopernicus; ISSN: 1220-515X

63. A. Iftime, A. Popescu, **C. Ganea**, *On the galantamine interaction with artificial lipid membranes*, *Rom. J. Biophys.* 2010 20(2): 93-100, indexata in IndexCopernicus; ISSN: 1220-515X
64. Mihaela Ilie, Denisa Margina, Luciana Nisiparu, **Constanta Ganea**, Katona Eva, FLAVONOIDS EFFECT ON THE LIPID ORDER PARAMETER OF PERIPHERAL BLOOD MONONUCLEAR CELLS, *Romanian J. Biophys.*, 2009, 19(1):43-48, indexata in IndexCopernicus; ISSN: 1220-515X

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

65. I. Baran, A. Scordino, D. Ionescu, S. Privitera, R. Grasso, M. Gulino, F. Musumeci, I.T. Tofolean, **C. Ganea**, Functional characterization of mitochondrial respiratory complex I by delayed luminescence spectroscopy, *LNS ACTIVITY REPORT*, Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud, sub tipar, 2015; Edit. Marchese Arti Grafiche, Siracusa, Italia; ISSN: 1827-1561
66. M.-M. Mocanu, **C. Ganea**, K. Siposova, A. Filippi, E. Demjen, J. Marek, Z. Bednarikova, A. Antosova, I. Baran, Z. Gazova Correlation between polymorphism of amyloid fibrils and cytotoxicity in renal cells The Slovak Biophysical Society, VI th . Slovak Biophysical Symposium, The 11. – 13. 3. 2014, ISBN 978-80-89544-67-7, 2014
67. **Activity Report Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud**, pp. 325-3289; Edit. Arti Grafiche Le Ciminiere Catania, Italia; ISSN: 1827-1561
68. **Activity Report Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud**, pp. 329-332; Edit. Arti Grafiche Le Ciminiere Catania, Italia; ISSN: 1827-1561
69. Baran I, **Ganea C**, Scordino A et al. (2010) *Apoptosis, cell cycle and delayed luminescence of human leukemia Jurkat T-cells under proton-irradiation and oxidative stress conditions*. **Activity Report Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud**, pp. 246-249; Edit. Arti Grafiche Le Ciminiere Catania, Italia; ISSN: 1827-1561
70. Baran I, **Ganea C**, Scordino A et al. (2010) *Correlation between delayed luminescence and oxidative stress-induced apoptosis in human leukaemia Jurkat T-cells*. **Activity Report Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud**, pp. 242-245; Edit. Arti Grafiche Le Ciminiere Catania, Italia; ISSN: 1827-1561
71. Vincenza Barresi, Irina Baran, **Constanta Ganea**, Eva Katona, Nicolò Mussoe, Carmela Capizzi, Maria-Magdalena Mocanu, Ioan Ursu, Virgil Baran, Giacomo Cuttone, G.A.P. Cirrone, Salvatore Tudisco, Daniele F. Condorelli. High resolution genome-wide analysis of genetic markers and retrospective biological dosimetry of absorbed radiation, 2009. **Activity Report Istituto Nazionale di Fisica Nucleare Laboratori Nazionali del Sud**, pp. 236-240. Edit. Arti Grafiche Le Ciminiere Catania, Italia, ISSN: 1827-1561
72. Irina Baran, **Constanta Ganea**, Agata Scordino, Francesco Musumeci, Salvatore Tudisco, Simona Privitera, Rosaria Grasso, Vincenza Barresi, , Daniele F. Condorelli, Virgil Baran, Eva Katona, Maria-Magdalena Mocanu, Marisa Gulino. Mihaela Surcel, Cornel Ursaciuc. Effects of menadione and quercetin on apoptosis and delayed luminescence of human leukaemia Jurkat T cells, 2009. **Activity Report Istituto Nazionale di Fisica Nucleare Laboratori Nazionali del Sud**, pp. 240 - 244. Edit. Arti Grafiche Le Ciminiere Catania, Italia, ISSN: 1827-1561
73. 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

74. 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
75. 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.
76. **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.
77. **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.
78. 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.
79. 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.
80. 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.

In tara, in reviste ale Academiei (recunoscute CNCSIS)

81. 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
82. 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
83. 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
84. 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.
85. 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.
86. 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.

87. **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.
88. **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.
89. 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
90. **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.
91. **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.
92. **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.
93. **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.
94. **Ganea C.** - Conceptii si teorii actuale asupra perceptronului, 1969, *Progresele Stiintei*, Ed. Academiei, 5, pp. 10.

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

95. 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**
96. **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, Iasi 2005, Rev. Med.Chir.Soc.Med.Nat, 2005, Suppl.1, pp.7-10

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

97. R.G. Sandu, **I. Baran**, D. Ionescu, A. Filippi, R. Babes, A. Goicea, A. Garaiman, R. Irimia, A. Dimancea, M. Gaman, C. Ganea, A. Murgoci. Doxorubicin induces G₂/M arrest, Ca²⁺ release, oxidative stress and apoptosis in human leukemia Jurkat cells at clinical doses and dose rates, poster (acceptat), *FEBS EMBO 2014 Congress*, 30 August - 4 Septembrie 2014, Paris, Franta. Rezumatul va fi publicat în *FEBS Journal*, ISSN: 1742-464X; revistă cotată ISI; sub tipar
98. M.M. Mocanu, T. Picot, E. Radu, **I. Baran**, E. Katona, P. Nagy, J. Szöllősi, L. Campos, C. Ganea. Modulation of motility and signaling pathways by epigallocatechin-3-O-gallate in tumor cell lines overexpressing ErbB proteins, poster (acceptat), *FEBS EMBO 2014*

Congress, 30 Aug. - 4 Sept. 2014, Paris, Franta. Rezumatul va fi publicat în *FEBS Journal*, ISSN: 1742-464X; revistă cotate ISI; sub tipar

99. D. Ionescu, C. Ganea, A. Iftime, I. Tofolean, R. Irimia, A. Goicea, A. Dimancea, A. Neagu, I. Baran, Quercetin exerts its antitumoral effect while manifesting a strong antioxidant character, 9th European Biophysics Congress, Lisbon 13-17 July, Abstract Booklet, **Eur. Biophys. J.**, (2013), P52, 42: S35=S208, S48, 2013
100. Z. Gazova, K. Siposova, A. Filippi, E. Demjen, A. Antosova, Z. Bednarikova, C. Ganea, MM. Mocanu, Polymorphism of lysosyme amyloid fibrils and cell viability, P114, S65, 9th European Biophysics Congress, Lisbon 13-17 July, Abstract Booklet, **Eur. Biophys. J.**, (2013)
101. Baran, I.; Katona, E.; **Ganea, C.** Quercetin fluorescence reveals the open probability of the RyR3 Ca²⁺ channel in intact cells, 22nd IUBMB Congress/37th FEBS Congress Location: Seville, SPAIN Date: SEP 04-09, 2012, **FEBS JOURNAL** Volume: 279 Special Issue: SI Supplement: 1 Pages: 269-270 Published: SEP 2012
102. Gazova Zuzana, Siposova Katarina, Koneracka Martina, Zavisova Vlasta, Kopcansky Peter, Filippi Alexandru; Ganea Constanta; Baran Irina; Mocanu, Maria-Magdalena, Magnetic fluids attenuate the cytotoxic effect of amyloid fibrils, 22nd IUBMB Congress/37th FEBS Congress Location: Seville, SPAIN Date: SEP 04-09, 2012, **FEBS JOURNAL** Volume: 279 Special Issue: SI Supplement: 1 Pages: 470-470 Published: SEP 2012
- C. Ganea
103. Baran, I, **C. Ganea** I. Ursu, V. Baran, O Calinescu, A. Iftime, R. Ungureanu, I.T. Tofolean, Fluorescence properties of quercetin in human leukemia Jurkat_T cells, **European Biophysics Journal with Biophysics Letters**, 8th EBSA European Biophysics Congress Location: Budapest, HUNGARY Date: AUG 23-27, 2011 Volume: 40 Supplement: 1 Pages: 69-69 Published: AUG 2011
104. 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
105. 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
106. 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
107. 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
108. 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
109. 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.
110. 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 C. Ganea Biophysical Society, San-Antonio, Texas, USA, **Biophys. J** 45 (2 Part2): 57A 1984

În străinătate (BIOSIS previews), publicații scurte:

111. Diana Ionescu and **Constanța Ganea** – The Hofmeister effect of anions on the insertion of hypericin in lipid bilayers, *European Biophysics Journal*, 34: 699, 2005
112. **Constanța 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
113. Diana Ionescu and **Constanța Ganea** – The Hofmeister effect of anions on the insertion of the antioxidant quercetin in lipid bilayers, *European Biophysics Journal*, 34: 723, 2005
114. Kerstin Meyer-Lipp, **Constanța 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
115. Júliánna Szakács, Melinda Lakatos, **Constanța Ganea** and György Váró – The kinetics of the photochemical reaction cycle of ion transporting retinal proteins, *European Biophysics Journal*, 34: 583, 2005

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

116. Garaiman, A; Tofolean, IT ; Babes, RM; Ganea, C ; Baran, I, SYNERGIC CHEMOTHERAPEUTIC EFFECT OF MENADIONE COMBINED WITH EPIGALLOCATECHINE-3-GALLATE OR DOXORUBICIN IN A HUMAN CELLULAR MODEL FOR ACUTE LYMPHOBLASTIC LEUKEMIA, HAEMATOLOGICA, Volume: 102, Pages: 657, Supplement: 2, Meeting Abstract: PB 1622, Published: Jun 26 2017
117. Alexandru Ionut Duta, Ioana Teodora Tofolean, Ramona Madalina Babes, **Constanța Ganea**, Irina Baran , Analysis of combined impact of doxorubicin and menadione on human leukaemia Jurkat T cells, *Porto Biomedical Journal*, Volume 2, Issue 5, September–October 2017, Page 211, <https://doi.org/10.1016/j.pbj.2017.07.087>
118. Oana Elena Baran, Ioana Teodora Tofolean, Maria Catalina Ceausescu, **Constanța Ganea**, Analysis of convergent effects of doxorubicin, quercetin and menadione in treatments of human leukemia Jurkat cells, 12th World Cancer Conference, September 26-28, 2016 London, UK, Abstracts, p. 78, ISSN: 1948-5956
119. Miyer Patino-Ruiz, **Constanța Ganea**, Klaus Fendler, Octavian Călinescu, Functional investigation of Na⁺/H⁺ exchangers from the pathogen *Klebsiella pneumoniae*, Biophysics and Medicine of Channels and Transporters: Electrifying New Insights, Erice, Italia, 14-20 May 2017
120. Calinescu O., Iftime A., **Ganea C.**, Fendler K., Electrophysiological Investigation of Prokaryotic Na⁺/H⁺ Exchangers, 14th National Conference of Biophysics, Cluj-Napoca, Romania, 2-4.06/2016
121. Oana-Alina Ciolac, Alexandru Filippi, **Constanța Ganea**, Maria-Magdalena Mocanu' The effect of curcumin on epidermoid carcinoma cell line A-431, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania
122. Alexandru Filippi, **Constanța Ganea**, Maria-Magdalena Mocanu' Anti-proliferative effect of curcumin in ER⁺ and ErbB2⁺ mammary cancer cell lines, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania
123. Alexandru Filippi, Tiphonie Picot, Carmen Mariana Aanei, Lydia Campos, **Constanța Ganea**, Maria-Magdalena Mocanu' EGCG reduces partially the expression level of intracellular phosphorylated proteins in correlation with induction of cell death in epidermoid and mammary cancer cell lines, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania Roxana Gabriela Sandu,

- Ioana Teodora Tofolean, **Constanta Ganea**, Irina Baran. Enhancement of the antiproliferative effect of doxorubicin by quercetin-menadione combinations in human leukemia Jurkat cells. Poster, 6th EMBO (European Molecular Biology Organization) Meeting, 5-8 sept. 2015, Birmingham, Marea Britanie
- 124.** Oana Elena Baran, Ioana Teodora Tofolean, Ruxandra Irimia, Irina Baran, **Constanta Ganea**. Antiproliferative effect of doxorubicin/quercetin/menadione combination in leukemia Jurkat T cells. Poster, 10th EBSA European Biophysics Congress, 18-22 July 2015, Dresda, Germania. Late Abstract Booklet p. 44
- 125.** Vlad Cosoreanu, Ioana Teodora Tofolean, **Constanta Ganea**, Alexandru Goicea, Irina Baran. Growth-suppressive action of doxorubicin on human leukemia Jurkat cells. Modulation by quercetin. Poster, 10th EBSA European Biophysics Congress, 18-22 July 2015, Dresda, Germania. Late Abstract Booklet p. 45
- 126.** Maria Teodora Ilie, Ioana Teodora Tofolean, **Constanta Ganea**, Alexandru Dimancea, Irina Baran. Chemotherapeutic potential of the doxorubicin/menadione combination in a human leukemia cell model. Poster, 10th EBSA European Biophysics Congress, 18-22 July 2015, Dresda, Germania. Late Abstract Booklet p. 45
- 127.** M.M. Mocanu, A. Filippi, T. Picot, C. M. Aanei, L. Campos, **C. Ganea**, Anticancer effects of epigallocatechin-3-O-gallate in tumor cell lines with ErbB proteins overexpression, poster, National Conference of Cytometry, 20th of May 2015, Bucharest, Romania, va fi publicat in revista Societatii Romane de Hematologie
- 128.** M.-M. Mocanu, **C. Ganea**, K. Siposova, E. Demjen J. Marek Z. Bednarikova M.-M. Iordache T. Savopol A. Antosova Z. Gazova Differential cytotoxic effect in response to polymorphism of amyloid fibrils, IUPAB congress, Brisbane, Australia, 2014
- 129.** MM.Mocanu, **C. Ganea**, K. Siposova, I. Baran, E. Katona, M. Gheorghiu, A. Antosova, Z. Gazova, Lysozyme amyloid fibrils inhibit the growing of LLC-PK1 renal cells, 7th International Conference Structure and Stability of Biomacromolecules, Sept. 6-9, Kosice, Slovakia, pp. 92-93, 2011, ISBN 978-80-970779-0-7.
- 130.** Katarina Siposova, Marta Muckova, Jana Lazova, Maria Magdalena Mocanu, **Constanta Ganea**, Andrea Antosova, Zuzana Gazova, Cell viability in the presence of lysozyme amyloid fibrils and magnetic fluids, 7th International Conference Structure and Stability of Biomacromolecules, Sept. 6-9, Kosice, Slovakia, pp. 134-135, 2011, ISBN 978-80-970779-0-7.
- 131.** Irina Baran, Maria- Magdalena Mocanu, Raluca Ungureanu , Marisa Gulino, **Constanta Ganea**, Simona Privitera, Agata Scordino, Vincenza Barresi, Francesco Musumeci, Rosaria Grasso, Daniele F. Condorelli, Virgil Baran, Effects of the mitochondrial respiration inhibitor, rotenone, on apoptosis, clonogenic survival and delayed luminescence of human leukemia Jurkat T-cells. China la 17th International Biophysics Congress și a apărut în Proceedings-ul congresului: Abstract, oct. 30th-nov. 3d, Beijing, China, www.17ibc.org, S26-O4, p. 163, 2011
- 132.** Diana Ionescu, Adrian M. Iftime, Constanta Ganea. "Quercetin modulates Hofmeister series anion effect on phase transition of DMPC liposomes" Prezentare poster la 17th International Biophysics Congress (IUPAB 2011, Beijing) și a apărut în Proceedings-ul congresului: Abstract, oct. 30th-nov. 3d, Beijing, China, www.17ibc.org, P18-20, p. 433.
- 133.** Adrian M. Iftime, Diana Ionescu, Domnica Barbu, Ines Agiu, Constanta Ganea "Investigation of epigallocatechin gallate effects on phase transition temperature of DMPC liposomes in presence of Hofmeister series anions" Prezentare poster la 17th International Biophysics Congress (IUPAB 2011, Beijing) și a apărut în Proceedings-ul congresului: Abstract, oct. 30th-nov. 3d, Beijing, China, www.17ibc.org, P18-21, p. 434.

134. 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
135. I. Baran, **C. Ganea**, F. Musumeci, S. Tudisco, A. Scordino, S. Privitera, L. Lanzano, V. Baran, Qurcetin effects on survival and delazed luminescence of hydrogen peroxide-treated yeast cells, *European Biophysics Journal*, vol. 36 suppl.: S171, 2007
136. 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
137. 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
138. **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;
139. 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.
140. 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
141. **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
142. 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
143. 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
144. **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
145. **C. Ganea** - Does D212N BR mutant pump chloride? - The Annual Conference of Max Planck Institute of Biophysics , Schloss Ringberg, Germania, 21-24 februarie 1999
146. **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.
147. 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.

- 148.** 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
- 149.** **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.
- 150.** **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.
- 151.** **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
- 152.** **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.
- 153.** Gergely Cs., **Ganea C.**, Váró G. - Study of the photocycle of 13-cis bacteriorhodopsin - 6-th International Conference on "Retinal Proteins", Leiden, Olanda, 19-24 iunie 1994, abstr. p. 168.
- 154.** 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
- 155.** **Constanta Ganea** - Role de la bactériorhodopsine en tant que pompe à protons - conf. Institutul de chimie fizica, Pessac, Bordeaux, Franta, oct. 1992.
- 156.** **Ganea C.**, Vasilescu V. - Bioenergetical Aspects of Deuteration - Romanian - German Workshop, Bucharest, 1989, abstr. p.9.
-
- 157.** **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.
- 158.** **Ganea C.** - Deuteration in Bioenergetics - American-Romanian Workshop "New Trends in the Study of Water and Ions in Biological Systems", Bandera, Texas, SUA, 1984.
- 159.** 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
- 160.** 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.
- 161.** **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.
- 162.** **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.

163. 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
164. 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.
165. 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.
166. 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.
167. Vasilescu V., Zaciú 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.
168. **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
169. **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
170. 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.
171. 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.
172. 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.
173. 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.
174. 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.
175. 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

176. Maria-Magdalena Mocanu, Tiphanie Picot, **Constanta Ganea**, Eugen Radu, Carmen Mariana Aanei, Adriana Dumitrescu, Lydia Campos, Signaling pathways in cancer cells, The 10th National Congress of Cytometry, Bucharest, May 21-24, 2014

- 177.** ALEXANDRU FILIPPI, TIPHANIE PICOT, CARMEN MARIANA AANEI, LYDIA CAMPOS, CONSTANTA GANEA, MARIA-MAGDALENA MOCANU' EPIGALLOCATECHIN-3-O-GALLATE REDUCES THE CLONOGENICITY, INDUCES THE MITOCHONDRIAL DEPOLARIZATION AND INCREASES PRODUCTION OF REACTIVE OXYGEN SPECIES IN CANCER CELL LINES WITH ERBB PROTEINS OVEREXPRESSION
- 178.** Irina Baran, **Constanta Ganea**, et al., "Relation between apoptosis and delayed luminescence of human leukemia Jurkat T-cells under proton-irradiation and oxidative stress conditions"; conferinta internationala HADRONTHERAPY, KNOWLEDGE AND EVIDENCES, Paltinis, Sibiu 2010
- 179.** 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
- 180.** A. Iftime, M. Dragușin, D. Ionescu, **C. Ganea**, The Hofmeister effect of anion on 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, ISSN: 0048-7848
- 181.** 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, ISSN: 0048-7848
- 182.** 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
- 183.** 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
- 184.** 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
- 185.** 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.
- 186.** 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.
- 187.** 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.
- 188.** 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

- 189. Ganea C.** - Bioenergetical Aspects of Deuteration - Romanian - German Workshop, Bucharest, 1989, abstr. p.9.
- 190. 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

- 191.** Agata Scordino, Irina Baran, Virgil Baran, Roberta Bonfanti, Agata Campisi, Constanta Ganea, Rosaria Grasso, Francesco Musumeci, Rosalba Parenti - New insights into application of Delayed Luminescence in cancer research - Photodynamic Therapy and Photodiagnosis in Clinical Practice: 9th International Symposium 2012 (October 16-20, 2012 - Brixen / Bressanone, Italy)
- 192.** Mocanu MM, Siposova K, **Ganea C.**, Baran I, Antosova A, Gazova Z, Protective role of nanoparticles against cytotoxic effect induced by amyloid fibrils, XXIII Biochemical Meeting, Brno, Check Republic, 26-29 August 2012
- 193.** Siposova K, Mocanu MM, Muckova M, Lazova J, **Ganea C.**, Baran I, Antosova A, Gazova Z, Magnetic fluid reverses inhibition of cell growing caused by protein amyloid fibrils, 9th International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Minneapolis, Minnesota, U.S.A., 22-26 Mai 2012
- 194.** Christopher Lentens, Marc Boehm, **Constanta Ganea**, Klaus Fendler, Carola Hunte, Cloning, production and characterization of the Na⁺/H⁺ antiporter NhaA from Salmonella enterica serovar Typhimurium LT2, Black Forest Retreat on Molecular Plant Science September 10-13th 2012, Abstract Book, Edited by Stefan A. Rensing Freiburg, Germany, Aug 2012
- 195.** 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
- 196.** 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.
- 197.** Gergely Csilla, **Ganea C.**, Száraz S., Váró G. - Charge motions in bacteriorhodopsin mutants - Zilele SZBK, Szeged, Ungaria, 25-27 nov. 1992
- 198.** Vasilescu V., **Ganea C.** - Deuteration, a non-destructive investigation tool - CMEA Meeting, Eberswalde, R.D. Germania, 1985
- 199.** Vasilescu V., **Ganea C.** - New data concerning the action of D₂O on the biological systems (lb.rusă) - Reuniune CMEA, Puschino, Moscova, URSS, 1982.

În țară la manifestări internaționale și naționale:

- 200.** Oana-Alina Ciolac, Alexandru Filippi, **Constanta Ganea**, Maria-Magdalena Mocanu' The effect of curcumin on epidermoid carcinoma cell line A-431, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania
- 201.** Alexandru Filippi, **Constanta Ganea**, Maria-Magdalena Mocanu' Anti-proliferative effect

of curcumin in ER+ and ErbB2+ mammary cancer cell lines, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania

- 202.** Alexandru Filippi, Tiphane Picot, Carmen Mariana Aanei, Lydia Campos, **Constanta Ganea**, Maria-Magdalena Mocanu' EGCG reduces partially the expression level of intracellular phosphorylated proteins in correlation with induction of cell death in epidermoid and mammary cancer cell lines, Congresul Universitatii de Medicina si Farmacie Carol Davila, Editia a 4-a, 2-4 iunie 2016, Bucuresti, Romania
- 203.** Alexandru Garaiman, Diana Ionescu, Alexandru Filippi, Ramona Babes, Alexandru Goicea, Valentin Popescu, Ruxandra Irimia, Alexandru Dimancea, Mihnea Gaman, Adrian Murgoci, Constanta Ganea, **Irina Baran**. Synergic antiproliferative effect of Epigallocatechine-3-gallate and menadione in human leukemia Jurkat T cells. Poster (acceptat), *7th EFIS/EJI South East European Immunology School*, Timisoara, 26-29 sept. 2014
- 204.** Mihnea-Alexandru Gaman, Alexandru Filippi, Diana Ionescu, Constanta Ganea, Irina Baran Modulation of the antitumoral effect of doxorubicin by quercetin-menadione combinations in human leukemia Jurkat cells, Craiova International Medical Students Conference (6-9th November, 2014) Diana Ionescu, Adrian Iftime, Octavian Călinescu, **Constanța Ganea**, "Efectul quercetinei asupra temperaturii de tranziție a membranei lipozomilor din DMPC", prezentare poster la **Conferința Filialei București a SRBPA**, 27 noiembrie, 2010
- 205.** Irina Baran, **Constanta Ganea**, Raluca Ungureanu, Ioana Tofolean. „Cell calcium - biophysics and modelling” prezentare orala la **Conferința Filialei București a SRBPA**, 27 noiembrie, 2010
- 206.** 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
- 207.** I. Baran, **C. Ganea**, V. Baran. Numerical studies on the activity of the muscle calcium channel. **Conferinta Nationala de Fizica**, Bucuresti, septembrie 2008
- 208.** 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
- 209.** **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
- 210.** **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
- 211.** **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.
- 212.** **Ganea C.**, Gergely Cs., Váró G. - Efectele deuterării asupra semnalelor electrice ale mutanților bacteriorodopsinei D85N și D212N - Conferința Națională de Biofizică și Informatică Medicală, Timișoara, nov. 1993, abstr. p.20.
- 213.** **Ganea C.**, Váró G. - Comparative study of purple membranes partially rehydrated with water and deuterium oxide - Prima Conferință SNBPA, București, nov. 1992.

214. **Ganea C.** - Mésures électriques dans l'étude des protéines membranaires photosensibles - École d'été Franco-Roumaine, București, sept. 1991
215. **Ganea C.** - Studiul membranelor purpurii parțial deshidratate în apă și în apă grea - Simpozionul Național de Biofizică, Timișoara, 1991.
216. **Ganea C.** - Măsurători electrice asupra membranelor purpurii deshidratate și deuterate, com. USSM, București, nov., 1990.
217. 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.
218. **Ganea C.**, Popescu A.I., Vasilescu V. - Bioluminescența sistemului luciferin-luciferază în D₂O - Al XIV-lea Simpozion Național de Biofizică, Sovata, 1979.
219. 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.
220. 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 .
221. **Ganea C.**, Vasilescu V. - Efectele D₂O asupra proceselor energetice din retină - Al XIII-lea Simpozion Național de Biofizică, Cluj, 1978.
222. Chirieri E., Aricescu I., **Ganea C.**, Vasilescu V. - Asupra mecanismelor generării componentelor ERG - Com. la Sesiunea Științifică a Cadrelor Didactice din IMF, București, iunie, 1977
223. 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
224. **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
225. 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
226. 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
227. **Ganea C.**, Chirieri E., Ciureș Al. - Mecanismele concentrării și conversiei de energie în celulele fotoreceptoare, USSM, București, 1974.
228. 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,..., **Constanța Ganea**, Ed. Universitară "Carol Davila", ISBN 978-973-708-399-9, București 2009
2. **Curs de Biofizica Medicala**, **Constanța Ganea**, <http://biofizica-umfcd.ro>, 2004
3. **Elemente de Bioacustică** - **Constanța Ganea**, Ed. Genuine, 1999
4. **Electricitate** - **Constanța Ganea**, Ed. Universitară "C.Davila" 1999
5. **Biofizica Medicală** - I. Aricescu..., **C. Ganea**,...,C. Zaciu, 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 în lucrări de specialitate

În străinătate, în reviste cotate ISI (354)

Klebsiella,

Chandramouli Kondethimmanahall, Roman Reddy Ganta Roman Reddy Ganta Impact of Three Different Mutations in Ehrlichia chaffeensis in, Altering the Global Gene Expression Patterns, 2018, Scientific Reports 8(1), DOI 10.1038/s41598-018-24471-3, License CC BY 4.0

Alexandru Filippi, Oana-Alina Ciolac, **Constanța Ganea**, and Maria-Magdalena Mocanu, ErbB Proteins as Molecular Target of Dietary Phytochemicals in Malignant Diseases, **Journal of Oncology**, Volume 2017 (2017), Article ID 1532534, 20 pages <https://doi.org/10.1155/2017/>

1. Pandey, Manoj K.; Gupta, Subash C.; Nabavizadeh, Ali; et al., Regulation of cell signaling pathways by dietary agents for cancer prevention and treatment, SEMINARS IN CANCER BIOLOGY, Volume: 46 Pages: 158-181, Published: Oct 2017, DOI: 10.1016/j.semcancer.2017.07.002

Alexandru Ionut Duta, Ioana Teodora Tofolean, Ramona Madalina Babes, Constanta Ganea, Irina Baran , Analysis of combined impact of doxorubicin and menadione on human leukaemia Jurkat T cells, Porto Biomedical Journal, Volume 2, Issue 5, September–October 2017, Page 211, <https://doi.org/10.1016/j.pbj.2017.07.087>

1. Franklin Unawunwa Natalia Hyriavenko Anna Korobchanska...Vladyslav Sikora, Peculiarities of expression of apoptosis markers in the tissues of primary fallopian tubes carcinoma. Article Sep 2017 DOI: 10.1016/j.pbj.2017.07.086 · License: CC BY-NC-ND 4.0

Ioana Teodora Tofolean, **Constanța Ganea**, Diana Ionescu, Alexandru Filippi, Alexandru Garaiman, Alexandru Goicea, Mihnea-Alexandru Gaman, Alexandru Dimancea, Irina Baran, Cellular determinants involving mitochondrial dysfunction, oxidative stress and apoptosis correlate with the synergic cytotoxicity of epigallocatechin-3-gallate and menadione in human leukemia Jurkat T cells, **Pharmacological Research**, DOI information: 10.1016/j.phrs.2015.12.013, Volume 103, January 2016 pp. 300-317

1. Liugen Gan, Liang Zhong, Zhiling Shan, Chunlan Xiao, Ting Xu, Hao Song, Liu Li, Rong Yang, Beizhong Liu, Epigallocatechin-3-gallate induces apoptosis in acute promyelocytic leukemia cells via a SHP-1-p38α MAPK-Bax cascade, **Article** in Oncology letters · September 2017, DOI: 10.3892/ol.2017.6980

2. Shaqiu Zhang, Tamer al-Maghout, Rosi Bissinger, Florian Lang, Epigallocatechin-3-gallate (EGCG) up-regulates miR-15b expression thus attenuating store operated calcium entry (SOCE) into murine CD4+ T cells and human leukaemic T cell lymphoblasts August 2017, *Oncotarget* 8(52), DOI 10.18632/oncotarget.20032

Mocanu MM, **Ganea C**, Siposova K, Filippi A, Demjen E, Marek J, Bednarikova Z, Antosova A, Baran I, Gazova Z, Polymorphism of lysozyme amyloid fibrils influences the cytotoxicity in LLC-PK1 epithelial kidney cells, 2014, *International Journal of Biological Macromolecules*, 65 PP. 176 - 187 doi: 10.1016/j.ijbiomac.2014.01.030

1. Hubin, Ellen; Deroo, Stephanie; Schierle, Gabriele Kaminksi; et al., Two distinct beta-sheet structures in Italian-mutant amyloid-beta fibrils: a potential link to different clinical phenotypes, *CELLULAR AND MOLECULAR LIFE SCIENCES*, Volume: 72, Issue:24, pages: 4899-4913, Published: 2015

2. Ba, Fang; Obaid, Mona; Wieler, Marguerite; et al., Parkinson Disease: The Relationship Between Non-motor Symptoms and Motor Phenotype, *CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES*, Volume: 43 Issue: 2 Pages: 261-267, Published: 2016

3. Vishwanath Sivalingam, Nalla Lakshmi Prasanna, Neetu Sharma, Archana Prasad, Basant K Patel, Wild-type hen egg white lysozyme aggregation in vitro can form self-seeding amyloid conformational variants, *Biophysical chemistry* 219, December 2016, DOI: 10.1016/j.bpc.2016.09.009

4. Sartiani L., Bucciantini M, Spineloli V., Stefani M. et al., Biochemical and Electrophysiological Modification of Amyloid Transthyretin on Cardiomyocytes, *Biophysical Journal* 111(9):2024-2038, November 2016

5. Sivalingam, Vishwanath; Prasanna, Nalla Lakshmi; Sharma, Neetu; et al., *Biophysical Chemistry*, 219, 28-37, 2016

6. Leri, Manuela; Bemporad, Francesco; Oropesa-Nunez, Reinier; et al., *Journal of Molecular and Cellular Medicine*, vol 20, 8, pp. 1443-1456, 2016

7. Pachahara, Sanjai Kumar; Subbalakshmi, Chivukula; Nagaraj, Ramakrishnan oramation of Nanostructures by Peptides, *CURRENT PROTEIN & PEPTIDE SCIENCE*, DOI: 10.2174/1389203717666160724210122, Volume: 18, Issue: 9, Pages: 920-938, 2017

8. Al-Shabib, Nasser Abdulatif; Khan, Javed Masood; Khan, Mohd Shahnawaz; et al., Synthetic food additive dye "Tartrazine" triggers amorphous aggregation in cationic myoglobin, *International Journal of Biological Macromolecules*, vol 98, pp. 277-286, 2017N.

9. S. Katina, E. I. Grigorashvili, M. Yu. Suvorina, A. K. Surin, Amyloid Core Wild-Type Apomyoglobin and Its Mutant Variants Is Formed by Different Regions of the Polypeptide Chain, January 2018, *Molecular Biology* 52(1):42-51, DOI 10.1134/S0026893318010089

10. Mehdi Mohammadian, Ashkan Madadlou, Technological functionality and biological properties of food protein nanofibrils formed by heating at acidic condition, May 2018, *Trends in Food Science & Technology* 75, DOI 10.1016/j.tifs.2018.03.013

Agata Scordino, Irina Baran, Marisa Gulino, **Constanta Ganea**, Rosaria Grasso, J. Hugo Niggli, Francesco Musumeci, Ultra-weak Delayed Luminescence in cancer research: A review of the results by the ARETUSA equipment, *Journal of Photochemistry and Photobiology B: Biology* 139, pp. 76-84 (2014)

1. Scordino, Agata; Campisi, Agata; Grasso, Rosaria; et al., Delayed luminescence to monitor programmed cell death induced by berberine on thyroid cancer cells, *JOURNAL OF BIOMEDICAL OPTICS*, Volume: 19 Issue: 11 Article Number: 117005, Published: 2014

2. Mengmeng Sun, Roeland van Wijk, Eduard van Wijk, Jan van der Greef, Delayed luminescence: an experimental protocol for Chinese herbal medicines, *Luminescence* 01/2016; DOI:10.1002/bio.3094

3. Niggli, U, Ultraweak electromagnetic wavelength radiation as biophotonic signals to regulate life processes, *Electr Electron Syst*, Volume 3 • Issue 2 • 1000126, 2014
4. Musumeci F., Parenti R., Gulino M., Delayed luminescence to monitor programmed cell death induced by berberine on thyroid cancer, *Journal of Biomedical Optics* 11/2014; 19(11):117005. DOI:10.1117/1.JBO.19.11.117005
5. Mengmeng Sun, Eduard van Wijk, Slavik Koval, Jan van der Greef, Measuring ultra-weak photon emission as a non-invasive diagnostic tool for detecting early-stage type 2 diabetes: A step toward personalized medicine, *Journal of photochemistry and photobiology. B, Biology* 166, November 2016
6. Grasso, Rosaria Tomoko Abe Pablo G A Cirrone, Scordino, Agata Effects of Ion Irradiation on Seedlings Growth Monitored by Ultraweak Delayed Luminescence, *PLoS ONE* 11(12):December 2016
7. Mengmeng Sun, Wen-Te Chang, Eduard van Wijk, Mei Wang, Characterization of the therapeutic properties of Chinese herbal materials by measuring delayed luminescence and dendritic cell-based immunomodulatory response, *Journal of photochemistry and photobiology. B, Biology* 168 DOI: 10.1016/j.jphotobiol.2017.01.018, January 2017
8. Kim, Hong Bae; Baik, Ku Youn; Choung, Pill-Hoon; et al., Pulse frequency dependency of photobiomodulation on the bioenergetic functions of human dental pulp stem cells, *Scientific Reports*, vol. 7, nr. 15927, DOI: 10.1038/s41598-017-15754-2, nov. 2017

Lentes, C.J., Mir, S.H., Boehm, M., **Ganea C.**, Fendler, K., Hunte, C. Molecular characterization of the Na⁺/H⁺-antiporter NhaA from *Salmonella Typhimurium*, *PLoS ONE* 1, 2014

1. Maqsood, S.R., Khan, B., Bhat, M.A., Dar, T.A., Mir, S.H., Targeting copper induced oxidative damage to proteins by ligation: A novel approach towards chelation therapy for oxidative stress disorders, *New Journal of Chemistry*, 2015
2. Călinescu, O., Danner, E., Böhm, M., Hunte, C., Fendler, K., Species differences in bacterial NhaA Na⁺/H⁺ exchangers, *FEBS Letters*, 2014
3. Scaria, Joy; Suzuki, Haruo; Ptak, Christopher P.; et al. Comparative genomic and phenomic analysis of *Clostridium difficile* and *Clostridium sordellii*, two related pathogens with differing host tissue preference *BMC GENOMICS* Volume: 16 Article Number: 448 Published: JUN 10 2015
4. Călinescu, Octavian; Fendler, Klaus, A universal mechanism for transport and regulation of CPA sodium proton exchangers, *BIOLOGICAL CHEMISTRY*, 369(9-10), 1091-1096, 2015
5. Kao, Wei-Chun; Kleinschroth, Thomas; Nitschke, Wolfgang; et al., The obligate respiratory supercomplex from Actinobacteria, *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*, vol. 1857 (1), 1705-1714, 2016
6. Bożena Szermer-Oleárník Marek Drab Mateusz Małkosa Maria Zembala Jakub Barbasz Krystyna Dabrowska Janusz Boratyński, Aggregation/dispersion transitions of T4 phage triggered by environmental ion availability, *Journal of Nanobiotechnology* 15(1), DOI: 10.1186/s12951-017-0266-5 · License: CC BY 4.0, 2017
7. Meng, Yiwei; Yang, Zhou; Cheng, Bin; et al., Functional Interaction between the N and C Termini of NhaD Antiporters from *Halomonas* sp Strain Y2, *JOURNAL OF BACTERIOLOGY*, vol. 199, 16, DOI: 10.1128/JB.00302-17, Aug. 2017
8. Wang, Ying; Wei, Lanjing; Liu, Huitao; et al., A genetic system for targeted mutations to disrupt and restore genes in the obligate bacterium, *Ehrlichia chaffeensis*, *Scientific Reports*, vol. 7, nr. 15801, DOI:10.1038/s41598-017-16023-y, nov. 2017

Irina Baran, Diana Ionescu, Simona Privitera, Agata Scordino, Maria Magdalena Mocanu, Francesco Musumeci, Rosaria Grasso, Marisa Gulino, Magdalena Mocanu, Adrian Iftime, Ioana Teodora Tofolean, Alexandru Garaiman, Alexandru Goicea, Ruxandra Irimia, Alexandru Dimancea, **Constanta Ganea**, *Mitochondrial respiratory Complex I probed by delayed luminescence spectroscopy*, **JOURNAL OF BIOMEDICAL OPTICS**, 2013, 18 (12), 127006 (December 23, 2013); doi: 10.1117/1.JBO.18.12.127006

1. Scordino, A., Campisi, A., Grasso, R., (...), Parenti, R., Musumeci, F., Delayed luminescence to monitor programmed cell death induced by berberine on thyroid cancer cells, *Journal of Biomedical Optics*, 2014,
2. Michael G. Gray, Brett R. Lackey, Evelyn F. Patrick, Sandra L. Gray, Susan G. Hurley, Multiple Integrated Complementary Healing Approaches: Energetics & Light for Bone, DOI: 10.1016/j.mehy.2015.10.030
3. Grasso, R.; Gulino, M.; Scordino, A.; et al., The delayed luminescence spectroscopy as tool to investigate the cytotoxic effect on human cancer cells of drug-loaded nanostructured lipid

- carrier, Proceedings of SPIE, Book Series: Volume: 9987, Article Number: UNSP 998723, Published: 2016
4. Grasso, Rosaria Tomoko Abe Pablo G A Cirrone, Scordino, Agata Effects of Ion Irradiation on Seedlings Growth Monitored by Ultraweak Delayed Luminescence, PLoS ONE 11(12)·December 2016
 5. Gray, Michael G.; Lackey, Brett R.; Patrick, Evelyn F.; et al., Multiple Integrated Complementary Healing Approaches: Energetics & Light for bone, MEDICAL HYPOTHESES, vol. 87, pp. 18-29, 2016
 6. Juho Tapio Knuuti, Licentiate thesis, Sep 2016
 7. Kim, Hong Bae; Baik, Ku Youn; Choung, Pill-Hoon; et al., Pulse frequency dependency of photobiomodulation on the bioenergetic functions of human dental pulp stem cells, SCIENTIFIC REPORTS, Volume: 7, Article Number: 15927, Published: NOV 21 2017
 8. Rosaria Grasso, Francesco Musumeci, Marisa Gulino, Agata Scordino, Exploring the behaviour of water in glycerol solutions by using delayed luminescence, PLoS ONE, 2018

M.M. Mocanu, **C. Ganea**, L. Georgescu, T. Varadi, D. Shrestha, I. Baran, E. Katona, P. Nagy, J. Szöllösi, *Epigallocatechin-gallate determines ErbB proteins downregulation, cell death mediated by 67kDa laminin receptor and altered lipid order in mammary and epidermoid carcinoma cells*, J. NAT. PROD., Volume: 77 Issue: 2 Pages: 250-257 Published: FEB 2014

1. Valeria Naponelli, Ileana Ramazzina, Chiara Lenzi, [...], Federica Rizzi, Green Tea Catechins for Prostate Cancer Prevention: Present Achievements and Future Challenges Antioxidants, Volume:6 Issue:2 Article Number:26 Published: Article · April 2017 DOI: 10.3390/antiox6020026 · License: CC BY 4.0
2. Jin, Ha Jeong; Kim, Jae Hyung; Kang, Eun Joo, Regioselective Domino Synthesis of 2-Alkylflavans via Hidden Bronsted Acid Catalysis, SYNTHESIS-STUTTGART, Volume: 49, Issue: 14, Pages: 3137-3144, DOI: 10.1055/s-0036-1589004, Published: Jul 2017

Baran, I., Ionescu, D., Filippi, A., (...), Neagu, A., **Ganea, C.**, Novel insights into the antiproliferative effects and synergism of quercetin and menadione in human leukemia Jurkat T cells, Leukemia Research, 2014

1. Marcel Karabín, Tereza Hudcová, Lukáš Jelínek, et al., Biotransformations and biological activities of hop flavonoids, Biotechnology Advances 02/2015; DOI:10.1016/j.biotechadv.2015.02.009
2. Ivan M. Savic, Vesna D. Nikolic, Vesna D. Nikolic, Ivana M. Savic-Gajic, Ivana M. Savic-Gajic, Ljubisa B. Nikolic, Ljubisa B. Nikolic, Blaga C. Radovanovic, Blaga C. Radovanovic, Jelena D. Mladenovic, Jelena D. Mladenovic Investigation of properties and structural characterization of the quercetin inclusion complex with (2-hydroxypropyl)- β -cyclodextrin, Journal of inclusion phenomena and macrocyclic chemistry 01/2015; DOI: 10.1007/s10847-015-0500-4
3. Yang, Feiya; Song, Liming; Wang, Huiping; et al., Combination of Quercetin and 2-Methoxyestradiol Enhances Inhibition of Human Prostate Cancer LNCaP and PC-3 Cells Xenograft Tumor Growth, PLOS ONE Volume: 10 Issue: 5 Article Number: e0128277 Published: MAY 26 2015
4. Yuan, Wenjuan; Cheng, Xiaoxia; Wang, Pan; et al. JOURNAL OF ETHNOPHARMACOLOGY Volume: 172, Pages: 410-420, Published: AUG 22 2015
5. Sak, Katrin; Everaus, Hele, ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, Volume: 15 Issue: 9 Pages: 1112-1126 Published: 2015
6. Yamada, Atsuko; Osada, Shinji; Tanahashi, Toshiyuki; Matsui, Satoshi; Sasaki, Yoshiyuki; Tanaka, Yoshihiro; Okumura, Naoki; Matsushashi, Nobuhisa; Takahashi, Takao; Yamaguchi, Kazuya; Yoshida, Kazuhiro), Novel therapy for locally advanced triple-negative breast cancer, INTERNATIONAL JOURNAL OF ONCOLOGY, vol 47(4), 1266-1272, 2015
7. Jose C J M D S Menezes, Barbora Orlikova, Franck Morceau, Marc F Diederich, Natural and Synthetic Flavonoids: Structure Activity Relationship and Chemotherapeutic Potential for the Treatment of Leukemia, Critical reviews in food science and nutrition 10/2015; DOI:10.1080/10408398.2015.
8. Gormaz J.G, Rodrigo R., Quintremil, S., Cardiovascular Disease: A Target for the Pharmacological Effects of Quercetin, Current topics in medicinal chemistry 04/2015; 15(17). DOI:10.2174/

9. Mantas Šilkūnas, Rita Saulė, Danutė Batiuškaitė, Gintautas Saulis, The Electroporation as a Tool for Studying the Role of Plasma Membrane in the Mechanism of Cytotoxicity of Bisphosphonates and Menadione, *Journal of Membrane Biology*·April 2016, DOI: 10.1007/s00232-016-9895-0, vol 7 (47), 2016
10. Wiraswati, HL, Hangen E., Ana Belén Sanz, Nazanine Modjtahedi, Apoptosis inducing factor (AIF) mediates lethal redox stress induced by menadione, *Oncotarget*, October 2016, DOI: 10.18632/oncotarget.12562
11. Menezes, Jose C. J. M. D. S.; Orlikova, Barbora; Morceau, Franck; et al., CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, vol. 56, pp S4-S28, 2016
12. Krishnamoorthy KavithaaSundaravadivelu SumathiPalghat Raghunathan Padma, Intracellular Uptake of PEG-Funtionalized Baicalein Loaded Iron Oxide Nanoparticles Regulates Apoptotic Genes in Triple Negative Breast Cancer Cells: Mitochondrial Pathway Targeted Therapy for Breast Cancer, *Journal of Cluster Science*, DOI: 10.1007/s10876-017-1204-2, March 2017
13. Sak, Katrin; Everaus, Hele, *Current Genomics*, Volume: 18 Issue: 1Pages: 3-26Published: 2017
14. Jamila Bettaib, ..., Riadh Ksouri, Limoniastrum guyonianum prevents H₂O₂-induced oxidative damage in IEC-6 cells by enhancing enzymatic defense, reducing glutathione depletion and JNK phosphorylation *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie* 95 · September 2017, DOI: 10.1016/j.biopha.2017.09.068

Baran, I., **Ganea, C.**, RyR3 in situ regulation by Ca²⁺ and quercetin and the RyR3-mediated Ca²⁺ release flux in intact Jurkat cells, *Archives of Biochemistry and Biophysics*, 2013

1. El-Nekeety, A.A., Abdel-Azeim, S.H., Hassan, A.M., (...), Aly, S.E., Abdel-Wahhab, M.A., Quercetin inhibits the cytotoxicity and oxidative stress in liver of rats fed aflatoxin-contaminated diet, *Toxicology Reports*, 2014
2. Guillermo Gormaz, Juan; Quintremil, Sebastian; Rodrigo, Ramon, Cardiovascular Disease: A Target for the Pharmacological Effects of Quercetin, *CURRENT TOPICS IN MEDICINAL CHEMISTRY* Volume: 15 Issue: 17 Pages: 1735-1742 Published: 2015
3. Nichols M, Zhang J, Polster BM, Elustondo PA, Thirumaran A, Pavlov EV, Robertson GS, Synergistic neuroprotection by epicatechin and quercetin: Activation of convergent mitochondrial signaling pathways, *Neuroscience*, 2015 Nov 12;308:75-94. doi: 10.1016/j.neuroscience.2015.09.012. Epub 2015 Sep 10.
4. Zhenhao LiuZhenhao Liu, Bao-Feng Lian, Qiong-Zhu Dong, Lun-Xiu Qin, Whole-exome mutational and transcriptional landscape of combined hepatocellular cholangiocarcinoma and intrahepatic cholangiocarcinoma reveal molecular diversity, February 2018, *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, DOI 10.1016/j.bbadis.2018.01.027

Ionescu, Diana; Margina, Denisa; Ilie, Mihaela; ..., **Constanta Ganea**, Quercetin and epigallocatechin-3-gallate effect on the anisotropy of model membranes with cholesterol, *FOOD AND CHEMICAL TOXICOLOGY* Volume: 61 Pages: 94-100 Published: NOV 2013

1. Margina, Denisa; Ilie, Mihaela; Manda, Gina; et al., In vitro effects of prolonged exposure to quercetin and epigallocatechin gallate of the peripheral blood mononuclear cell membrane *CELLULAR & MOLECULAR BIOLOGY LETTERS* Volume: 19 Issue: 4 Pages: 542-560 Published: DEC 2014
2. Sharma, N., Kapoor, M., Nehru, B., Spinacea oleracea l. extract protects against LPS induced oxidative stress, inflammatory response and ensuing biochemical, Neurochemical and neurobehavioral impairment in mice, *International Journal of Pharmacy and Pharmaceutical Sciences*, 2014
3. Selvaraj, S., Krishnaswamy, S., Devashya, V., Sethuraman, S., Krishnan, U.M., Influence of membrane lipid composition on flavonoid-membrane interactions: Implications on their biological activity, *Progress in Lipid Research*, 2015
4. Ulrich, Natasa Poklar; Maricic, Maja; Ota, Ajda; et al., Kaempferol and quercetin interactions with model lipid membranes, *FOOD RESEARCH INTERNATIONAL* Volume: 71 Pages: 146-154 Published: MAY 2015
5. Hironori Tsuchiya, Anesthetic Agents of Plant Origin: A Review of Phytochemicals with Anesthetic Activity, **Article** in *Molecules* 22(8):1369 · August 2017

Baran I., Katona E., **Ganea C.**, Quercetin as a fluorescent probe for the ryanodine receptor activity in Jurkat cells (2013) Pflugers Archiv European Journal of Physiology, 465 (8) , pp. 1101-1119.

1. Shi, Z.Y., Li, Y.Q., Protective effects of quercetin derivatives against hydrogen peroxide-induced oxidative damage in pC-12 cells, Advanced Materials Research, 2014

Baran, Irina; **Ganea, Constanta**; Privitera, Simona; et al., Detailed Analysis of Apoptosis and Delayed Luminescence of Human Leukemia Jurkat T Cells after Proton Irradiation and Treatments with Oxidant Agents and Flavonoids, OXIDATIVE MEDICINE AND CELLULAR LONGEVITY Article Number: 498914 Published: 2012

1. Cary, Lynnette H.; Noutai, Daniel; Salber, Rudolph E.; et al., Interactions between Endothelial Cells and T Cells Modulate Responses to Mixed Neutron/Gamma Radiation, RADIATION RESEARCH Volume: 181 Issue: 6 Pages: 592-604 Published: JUN 2014
2. Ebtessam Al- Suhaimi, Molecular mechanisms of Leptin and pro-apoptotic signals induced by menadione in HepG2 cells, Saudi Journal of Biological Sciences 03/2014, DOI: 10.1016/j.sjbs.2014.03.002, Volume: 21 Issue: 6 Pages: 582-588 Published: DEC 2014
3. Scordino, Agata; Campisi, Agata; Grasso, Rosaria; et al., Delayed luminescence to monitor programmed cell death induced by berberine on thyroid cancer cells, JOURNAL OF BIOMEDICAL OPTICS Volume: 19 Issue: 11 Article Number: 117005 Published: NOV 2014
4. Wang, Y., Chen, P., Lin, L., (...), Zhou, X.-X., Yang, R.-C., Research on detection of trace narcotics based on photo-induced delayed luminescence, Guangdianzi Jiguang/Journal of Optoelectronics Laser, 2014
5. Sak, Katrin; Everaus, Hele, Chemomodulating Effects of Flavonoids in Human Leukemia 5. Cells, ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, 15 (9), pp. 1112-1126, 2015
6. Kim, Byungtak; Bae, Hansol; Lee, Hyunkyung; ; Lee, S ; Park, JC ; Kim, KR ; Kim, SJ, Proton Beams Inhibit Proliferation of Breast Cancer Cells by Altering DNA Methylation Status, JOURNAL OF CANCER, Volume: 7, Issue: 3, Pages: 344-352, Published: 2016
7. Grasso, R.; Gulino, M.; Scordino, A.; et al., The delayed luminescence spectroscopy as tool to investigate the cytotoxic effect on human cancer cells of drug-loaded nanostructured lipid carrier, Proceedings of SPIE, Book Series: Volume: 9987, Article Number: UNSP 998723, Published: 2016
8. Sak, Katrin; Everaus, Hele, Current Genomics, Volume: 18 Issue: 1 Pages: 3-26 Published: 2017
9. Karel Valis...Petr Novák, Reprogramming of leukemic cell metabolism through the naphthoquinonic compound Quambalarine B, Oncotarget · October 2017, DOI: 10.18632/oncotarget.21663
10. Kim, Hong Bae; Baik, Ku Youn; Choung, Pill-Hoon; et al., Pulse frequency dependency of photobiomodulation on the bioenergetic functions of human dental pulp stem cells, SCIENTIFIC REPORTS, Volume: 7, Article Number: 15927, Published: NOV 21 2017

Ionescu, Diana ; **Ganea, Constanta**, A study of quercetin effects on phospholipid membranes containing cholesterol using Laurdan fluorescence, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, Volume: 41 Issue: 3, Pages: 307-318 DOI: 10.1007/s00249-011-0786-0 Published: MAR 2012

1. Bacalum, Mihaela; Zorila, Bogdan; Radu, Mihai, Fluorescence spectra decomposition by asymmetric functions: Laurdan spectrum revisited, ANALYTICAL BIOCHEMISTRY, Volume: 440 Issue: 2 Pages: 123-129 DOI: 10.1016/j.ab.2013.05.031 Published: SEP 15 2013
2. Puff, Nicolas; Watanabe, Chiho; Seigneuret, Michel; et al. L-o/L-d phase coexistence modulation induced by GM1, BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1838 Issue: 8 Pages: 2105-2114 Published: AUG 2014
3. Bonaventura, Gabriele; Barcellona, Maria Luisa; Golfetto, Ottavia; et al. Laurdan Monitors Different Lipids Content in Eukaryotic Membrane During Embryonic Neural Development, CELL BIOCHEMISTRY AND BIOPHYSICS Volume: 70 Issue: 2 Pages: 785-794 Published: NOV 2014
4. Frenzel, M., Steffen-Heins, A., Impact of quercetin and fish oil encapsulation on bilayer membrane and oxidation stability of liposomes, Food Chemistry, 2015
5. Poudel, Kumud R.; Dong, Yongming; Yu, Hang; et al., A time course of orchestrated endophilin action in sensing, bending, and stabilizing curved membranes, MOLECULAR BIOLOGY OF THE CELL, vol. 27(13), p. 2119-2132, 2016
6. Zorila, B.; Bacalum, Mihaela; Popescu, A. I.; et al., LOG-NORMAL DECONVOLUTION OF LAURDAN FLUORESCENCE SPECTRA - A TOOL TO ASSESS LIPID MEMBRANE FLUIDITY, ROMANIAN REPORTS IN PHYSICS, vol. 68(2), p. 702-712, 2016

Denisa Margina Mihaela Ilie, Gina Manda, Ionela Neagoe, Magdalena Mocanu, Diana Ionescu, Daniela Gradinaru, **Constanța Ganea**, Quercetin and epigallocatechin gallate effects on the

1. Chirumbolo, Salvatore, GENERAL PHYSIOLOGY AND BIOPHYSICS, Volume: 31 Issue: 2 Pages: 229-230 DOI: 10.4149/gpb_2012_027 Published: JUN 2012
2. Pandey, Kanti Bhooshan; Jha, Rashmi; Rizvi, Syed Ibrahim, Source: CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, Volume: 40, Issue: 2 Pages: 83-89 DOI: 10.1111/1440-1681.12041 Published: FEB 2013
3. Chae, Soo Cheon; Lee, Jai-Heon; Park, Sang Un, RECENT STUDIES ON FLAVONOIDS AND THEIR ANTIOXIDANT ACTIVITIES, EXCLI JOURNAL, Volume: 12 Pages: 226-230 Published: 2013
4. Roy, Atanu Singha; Ghosh, Kalyan Sundar; Dasgupta, Swagata, An investigation into the altered binding mode of green tea polyphenols with human serum albumin on complexation with copper, JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, Volume: 31 Issue: 10 Pages: 1191-1206
5. Margina, Denisa; Gradinaru, Daniela; Manda, Gina; et al. Membranar effects exerted in vitro by polyphenols - quercetin, epigallocatechin gallate and curcumin - on HUVEC and Jurkat cells, relevant for diabetes mellitus DOI: 10.1080/07391102.2012.729158 Published: OCT 1 2013, FOOD AND CHEMICAL TOXICOLOGY Volume: 61 Pages: 86-93 Published: NOV 2013
6. Zbikowska, Halina Malgorzata; Antosik, Adam; Szejka, Magdalena; et al.. Does quercetin protect human red blood cell membranes against gamma-irradiation? REDOX REPORT Volume: 19 Issue: 2 Pages: 65-71 Published: MAR 2014
7. Zbikowska, Halina Malgorzata; Antosik, Adam; Szejka, Magdalena; et al. A moderate protective effect of quercetin against gamma-irradiation- and storage-induced oxidative damage in red blood cells for transfusion, INTERNATIONAL JOURNAL OF RADIATION BIOLOGY Volume: 90 Issue: 12 Pages: 1201-1210 Published: DEC 2014
8. Margina, Denisa; Ilie, Mihaela; Manda, Gina; et al., In vitro effects of prolonged exposure to quercetin and epigallocatechin gallate of the peripheral blood mononuclear cell membrane CELLULAR & MOLECULAR BIOLOGY LETTERS Volume: 19 Issue: 4 Pages: 542-560 Published: DEC 2014
9. Yi-Ling Chiou, Shinne-Ren Lin, Wan-Ping Hu, Long-Sen Chang Quercetin modulates activities of Taiwan cobra phospholipase A2 via its effects on membrane structure and membrane-bound mode of phospholipase A2., Institute of Biomedical Sciences, National Sun Yat-Sen University, Kaohsiung 804, Taiwan. Journal of Biosciences. 06/2012; 37(2):277-87. DOI: 10.1007/s12038-012-9198-2, Source: PubMed
10. Gollücke, A.P.B., Ribeiro, D.A., Aguiar, O., Polyphenols as Supplements in Foods and Beverages: Recent Methods, Benefits and Risks (Book Chapter), Polyphenols in Human Health and Disease, 2013
11. Oliviero, F., Sfriso, P., Scanu, A., (...), Spinella, P., Punzi, L., Epigallocatechin-3-gallate reduces inflammation induced by calcium pyrophosphate crystals in vitro, Frontiers in Pharmacology, 2013
12. Kravchenko, L. V.; Avren'eva, L. I.; Aksenov, I. V.; et al. Voprosy Pitaniya Volume: 84 Issue: 3 Pages: 22-30 Published: 2015
13. Okada, Mizue; Okada, Yoshinori, BIO-MEDICAL MATERIALS AND ENGINEERING, Volume: 25 Issue: 3 Pages: 257-266 Published: 2015
14. Purdel, Nicoleta Carmen; Miulescu, Rucsandra Danculescu; Neamtu, Marius Cristian; Avramescu, Elena Taina; Ilie, Mihaela; Manda, Gina; Margina, Denisa Marilena, Studies regarding the protective effects exhibited by antidepressants on cell models, ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY, vol 56(2), 781-788, 2015
15. Tsuchiya, Hironori, Membrane Interactions of Phytochemicals as Their Molecular Mechanism Applicable to the Discovery of Drug Leads from Plants, MOLECULES, vol. 20 (10), pp. 18923-18966, 2015
16. Roy, Atanu Singha; Ghosh, Pooja; Dasgupta, Swagata, Glycation of human serum albumin affects its binding affinity towards (-)-epigallocatechin gallate, JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, Volume: Issue: 85 (3-4) Pages: 103-202, Published: 2016
17. Chaudhury, Susmitnarayan; Bag, Sudipta; Bose, Madhuparna; et al., Protection of human gamma B-crystallin from UV-induced damage by epigallocatechin gallate: spectroscopic and docking studies, MOLECULAR BIOSYSTEMS, vol 12 (9), p. 2901-2909, 2016
18. Strugala P., Dudra A., Gabielska J., Interaction between Mimic Lipid Membranes and Acylated and Nonacylated Cyanidin and Its Bioactivity, Journal of Agricultural and Food Chemistry 64(39) · September 2016
19. Manuela Dragoi, Niculina Mitrea, Andreea Letitia Arsene, Mihaela Ilie, In vitro effects of some bio-indoles on the transmembrane potential of jurkat e 6.1 lymphoblasts, Farmacia 60(2):240-248 · March 2012
20. Golonko, Aleksandra; Swislocka, Renata; Lewandowski, Włodzimierz, Quercetin-metal complexes as potential drugs with anticancer activity. The structure, activity and bioavailability, PRZEMYSŁ CHEMICZNY, Volume: 95, Issue: 9, Pages: 1774-1780, Published: 2016
21. Hironori Tsuchiya, Anesthetic Agents of Plant Origin: A Review of Phytochemicals with Anesthetic Activity, **Article** in Molecules 22(8):1369 · August 2017

22. Sekowski, S., Terebka, M., Veiko, A., Lapshina, E., Sulkowska, U., Zavodnik, I.B., Abdulladjanova, N., Mavlyanov, S., Roszkowska, A., Zamaraeva, M., Epigallocatechin gallate (EGCG) activity against UV light-induced photo damages in erythrocytes and serum albumin—theoretical and experimental studies, *Journal of Photochemistry and Photobiology A: Chemistry* volume 356, issue , year 2018, pp. 379 – 38

Ganea, C. ; Meyer-Lipp, K. ; Lemonnier, R. ; et al., G117C MelB, a mutant melibiose permease with a changed conformational equilibrium, ***BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES***, Vol.1808, Issue:10: 2508-2516 DOI: 10.1016/j.bbamem.2011.07.017 Published: OCT 2011

1. Guan, Lan; Jakkula, S. Vivek; Hodkoff, Alexey A.; et al., *BIOCHEMISTRY*, Volume: 51 Issue: 13 Pages: 2950-2957 DOI: 10.1021/bi300230h, Published: APR 3 2012
2. Jakkula, S. Vivek; Guan, Lan, *JOURNAL OF BACTERIOLOGY*, Volume: 194 Issue: 20 Pages: 5538-5544 DOI: 10.1128/JB.01206-12 Published: OCT 2012
3. Lin, Yibin; Fuerst, Oliver; Granell, Meritxell; et al., The substitution of Arg149 with Cys fixes the melibiose transporter in an inward-open conformation, *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*, Volume: 1828 Issue: 8 Pages: 1690-1699 DOI: 10.1016/j.bbamem.2013.03.003 Published: AUG 2013
4. Hariharan, Parameswaran; Balasubramaniam, Dhandayuthapani; Peterkofsky, Alan; et al., Thermodynamic mechanism for inhibition of lactose permease by the phosphotransferase protein IIA(Glc), *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* Volume: 112 Issue: 8 Pages: 2407-2412 Published: FEB 24 2015
5. Anowarul Amin, Parameswaran Hariharan, Pil Seok Chae, ... Guan, Lan, Effect of detergents on galactoside binding by melibiose permeases, *Biochemistry* 09/2015; 54(38):5849–5855. DOI:10.1021/acs.biochem.
6. Hariharan, Parameswaran; Guan, Lan, Thermodynamic cooperativity of cosubstrate binding and cation selectivity of *Salmonella typhimurium* MelB, *JOURNAL OF GENERAL PHYSIOLOGY*, Volume: 149, Issue: 11, Pages: 1029-1039, Published: NOV 2017
7. Vidhya Ravi, Structure and dynamics of a membrane symporter: The Melibiose Permease., PhD thesis, March 2016

Baran, I, **C. Ganea** I. Ursu, V. Baran, O Calinescu, A. Iftime, R. Ungureanu, I.T. Tofolean, Fluorescence properties of quercetin in human leukemia Jurkat_T cells, ***Rom. J. of Physics*** Volume 56, no. 3-4, 388-398, 2011

1. Sassi Nicola; Biasutto Lucia; Mattarei Andrea; et al., Source: *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*, Volume:1817 Issue:7 Pages: 1095-1106 DOI: 10.1016/j.bbabio.2012.03.007 Published: JUL 2012
2. Ursache Mihaela-FlorentinaIoana Otilia GhineaMihaela TurturicaStanciuc Nicoleta, Phytochemicals content and antioxidant properties of sea buckthorn (*Hippophae rhamnoides* L.) as affected by heat treatment - quantitative spectroscopic and kinetic approaches, *Food Chemistry*, DOI: 10.1016/j.foodchem.2017.04.107, April 2017
3. Balakrishnan Solaimuthu, Sudip Mukherjee, Sourav Das, Firdose Bhat, Raja Singh Paulraj, Chittaranjan Patra, Arunakaran JagadeesanGold nanoparticles conjugated quercetin induces apoptosis via inhibition of EGFR/PI3K/Akt mediated pathway in breast cancer cell lines (MCF-7 and MDA-MB-231), *Cell Biochemistry and Function*, DOI: 10.1002/cbf.3266, March 2017,
2. Antonio Filippi, Elisa Petrusa, Carlo Peresson, Alberto Bertolini, Angelo Vianello, Enrico BraidotIn vivo assay to monitor flavonoid uptake across plant cell membranes. August 2015·*FEBS Open Bio*:[https://www.researchgate.net/publication/282476250_In_vivo_assay_to_monitor_flavonoid_uptake_across_plant_cell_membranes?pag=1:mrect:\(358.07,586.43,12.67,7.96\)](https://www.researchgate.net/publication/282476250_In_vivo_assay_to_monitor_flavonoid_uptake_across_plant_cell_membranes?pag=1:mrect:(358.07,586.43,12.67,7.96))
3. Saad, Rita; Bouveresse, Delphine Jouan-Rimbaud; Locquet, Nathalie; et al., Using pH variations to improve the discrimination of wines by 3D front face fluorescence spectroscopy associated to Independent Components Analysis, *TALANTA*, vol. 153, p. 278-284, 2016
4. Bazracharza, Abijit; Tripathi, Ajay; Tiwari, Archana, Ethnic Extraction Practices of *Swertia chirayita* in Eastern Himalaya: A Spectroscopic Approach, *ADVANCED SCIENCE LETTERS*, Volume:21, Issue: 8,pages: 2561-2565, 2015
5. Ursache, F.-M., Ghinea, I.O., Turturica, M., Aprodu, I., Rapeanu, G., Stanciuc, N., Phytochemicals content and antioxidant properties of sea buckthorn (*Hippophae rhamnoides* L.) as affected by heat treatment , *Quantitative spectroscopic and kinetic approaches,FoodChemistry*, volume 233, issue , year 2017, pp. 442 - 449

6. J. C. Alva-Ensastegui, Manuel PalomarManuel Palomar, Mario Romero-Romo Romero-Romo, M. T. Ramírez-Silva, Quercetin spectrofluorometric quantification in aqueous media using different surfactants as fluorescence promoters, March 2018, RSC Advances 8(20):10980-10986, DOI 10.1039/C8RA01213J, License CC BY-NC 4.0

Băran I, **C. Ganea** et al., Effects of Menadione, Hydrogen Peroxide, and Quercetin on Apoptosis and Delayed Luminescence of Human Leukemia Jurkat T-Cells, *Cell Biochemistry and Biophysics*, 58: 169-179 (2010)

1. Bonilla-Porras Angelica R.; Jimenez-Del-Rio Marlene; Velez-Pardo Carlos
Source: CANCER CELL INTERNATIONAL, Volume: 11 Article Number: 19 DOI: 10.1186/1475-2867-11-19 Published: JUN 10 2011
2. Delwar Zahid M.; Avramidis Dimitrios; Follin Elna; et al. Source: INVESTIGATIONAL NEW DRUGS
Volume: 30 Issue: 4 Pages: 1302-1310 DOI: 10.1007/s10637-011-9680-y Published: AUG 2012
3. Cuccarolo Paola; Viaggi Silvia; Degan Paolo, Source: FEBS JOURNAL Volume: 279 Issue: 14
Pages: 2479-2494 DOI: 10.1111/j.1742-4658.2012.08629.x Published: JUL 2012
4. Margina, Denisa; Ilie, Mihaela; Mocanu, Magdalena; et al. ROMANIAN BIOTECHNOLOGICAL
LETTERS Volume: 17 Issue: 3 Pages: 7366-7372 Published: MAY-JUN 2012,
5. Craciunescu, Oana; Constantin, Daniel; Gaspar, Alexandra; et al.
CHEMISTRY CENTRAL JOURNAL Volume: 6 Article Number: 97 DOI: 10.1186/1752-153X-6-97
Published: SEP 9 2012
6. Ari, Ferda; Sarimahmut, Mehmet; Ulukaya, Engin, Source: CURRENT SIGNAL TRANSDUCTION
THERAPY Volume: 7 Issue: 3 Pages: 202-208 Published: SEP 2012
7. Chen, Ping; Zhang, Lei; Mao, Song-Cheng; et al. Delayed luminescence as an optical
indicator of tobacco leaf quality JOURNAL OF OPTICAL TECHNOLOGY Volume: 80 Issue: 2
Pages: 115-118 Published: FEB 2013
8. Nogueira-Pedro, A., Cesário, T.A.M., Dias, C.C, Origassa, C.S.T., Eça, L.P.M, Paredes-Gamero,
E.J, Ferreira, A.T, Cancer Cell International, Volume 13, Issue 1, 23 December 2013, Article number
123
9. Sak, Katrin. Site-Specific Anticancer Effects of Dietary Flavonoid Quercetin. NUTRITION AND
CANCER-AN INTERNATIONAL JOURNAL Volume: 66 Issue: 2 Pages: 177-193 Published: FEB 1
2014
10. Wang Y, Chen P, Lin L, Yang RC, Research on detection of trace narcotics based on photo-
induced delayed luminescence, Guangdianzi Jiguang/Journal of Optoelectronics Laser 25(11):2152-
2157 · November 2014
11. Gaspar, Alexandra; Craciunescu, Oana; Trif, Mihaela; et al. Antioxidant and anti-inflammatory
properties of active compounds from Arnica montana L., ROMANIAN BIOTECHNOLOGICAL LETTERS
Volume: 19 Issue: 3 Pages: 9353-9365 Published: JUN-JUL 2014
12. Ebtesam Al- Suhaimi, Article: Molecular mechanisms of Leptin and pro-apoptotic signals induced
by menadione in HepG2 cells, Saudi Journal of Biological Sciences 03/2014
13. Herman, Kimberly N.; Toffton, Shannon; McCulloch, Scott D. Minimal Detection of Nuclear
Mutations in XP-V and Normal Cells Treated with Oxidative Stress Inducing Agents, JOURNAL OF
BIOCHEMICAL AND MOLECULAR TOXICOLOGY Volume: 28 Issue: 12 Pages: 568-577
Published: DEC 2014
14. Musumeci F., Parenti R., Gulino M., Delayed luminescence to monitor programmed cell
death induced by berberine on thyroid cancer, Journal of Biomedical Optics 11/2014;
19(11):117005. DOI:10.1117/1.JBO.19.11.117005
15. Jiang, Y., Yang, J., Yang, C., (...), Khan, M., Yang, H., Vitamin K4 induces tumor cytotoxicity in
human prostate carcinoma PC-3 cells via the mitochondria-related apoptotic pathway, Pharmazie,
2013
16. Kwolek-Mirek, Magdalena; Zadrag-Tecza, Renata; Bednarska, Sabina; et al., Acrolein-Induced
Oxidative Stress and Cell Death Exhibiting Features of Apoptosis in the Yeast *Saccharomyces
cerevisiae* Deficient in SOD1, CELL BIOCHEMISTRY AND BIOPHYSICS Volume: 71 Issue: 3
Pages: 1525-1536 Published: APR 2015
17. Gerard Bryan Gonzales, John Van Camp, Hanne Vissenaekens, Charlotte Grootaert, Review on
the Use of Cell Cultures to Study Metabolism, Transport, and Accumulation of Flavonoids: Mono-
Cultures to Co-Culture Systems, Comprehensive Reviews in Food Science and Food Safety
14(6) · August 2015.
18. Badave, Kirti D.; Khan, Ayesha A.; Rane, Sandhya Y., Anticancer Vitamin K-3 Analogs: A
Review, ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol. 16 (8), p. 1017-1030, 2016
19. Grasso, R.; Gulino, M.; Scordino, A.; et al., The delayed luminescence spectroscopy as tool to
investigate the cytotoxic effect on human cancer cells of drug-loaded nanostructured lipid carrier,
Proceedings of SPIE, Book Series: Volume: 9987, Article Number: UNSP 998723, Published: 2016

20. Sak, Katrin; Everaus, Hele, Current Genomics, Volume: 18 Issue: 1 Pages: 3-26 Published: 2017

21. Weihua Di, Muhammad Khan, Yong Gao, Hongwen Gao, Vitamin K4 inhibits the proliferation and induces apoptosis of U2OS osteosarcoma cells via mitochondrial dysfunction, Molecular Medicine Reports 15(1), December 2016

22. Jesús A Romero, María E Acosta, Neira D Gamboa, ..., Jaime Charris, Optimization of antimalarial, and anticancer activities of (E)-methyl 2-(7-chloroquinolin-4-ylthio)-3-(4-hydroxyphenyl) acrylate, February 2018, Bioorganic & medicinal chemistry 26(4), DOI 10.1016/j.bmc.2017.12.022

23. R. Tundis, D. Iacopetta, M.S. Sinicropi M. Bonesi M. Leporini N.G. Passalacqua J. Ceramella F. Menichini M.R. Loizzo Assessment of antioxidant, antitumor and pro-apoptotic effects of *Salvia fruticosa* Mill. subsp. *thomasii* (Lacaita) Brullo, Guglielmo, Pavone & Terrasi (Lamiaceae) (11) *Assessment of antioxidant, antitumor and pro-apoptotic effects of Salvia fruticosa* Mill. subsp. *thomasii* (Lacaita) Brullo, Guglielmo, Pavone & Terrasi (Lamiaceae). Available from: Food and Chemical Toxicology, 106, 155-167, Part: Published: AUG 2017

Dragusin, Magdalena; Tugulea, Laura; **Ganea, Constanta**, The effects of the natural antioxidant quercetin and anions of the Hofmeister series on liposomes marked with chlorophyll a, GENERAL PHYSIOLOGY AND BIOPHYSICS Volume: 29 Issue: 1 Pages: 41-49 Published: MAR 2010

1. Comparative spectroscopic studies on liposomes containing chlorophyll a and chlorophyllide a By: Milenkovic, Sanja M.; Barbinta-Patrascu, Marcela E.; Baranga, Gabriel; et al. GENERAL PHYSIOLOGY AND BIOPHYSICS Volume: 32 Issue: 4 Pages: 559-567 Published: DEC 2013

2. Characterization of Quercetin/Hydroxypropyl-beta-Cyclodextrin Inclusion Complex, By: Yang, Li; Yan, Qinghua; Liu, Benguo; et al. ASIAN JOURNAL OF CHEMISTRY Volume: 24 Issue: 7 Pages: 3141-3144 Published: JUL 2012

3. Petrović, S.M., Tugulea, L., Marković, D.Z., Barbanta-Patrascu, M., Document Chlorophyll A and chlorophyllide A inside liposomes made of saturated and unsaturated lipids: A possible impact of the lipids microenvironment, Acta Periodica Technologica, 2014

Adrian Iftime, Anca Popescu, **Constanta Ganea** (2010) *Effects of epigallocatechin gallate on artificial lipid membranes. Romanian Journal of Biophysics*, 20(4) 323-334; indexata in IndexCopernicus; ISSN: 1220-515X

1. Matthew G. Burton, Qi M Huang, Mohammed Akhter Hossain, John D. Wade, Andrew Harry A. Clayton, Direct Measurement of Pore Dynamics and Leakage Induced by a Model Antimicrobial Peptide in Single Vesicles and Cells, Langmuir 32(25) · June 2016, DOI: 10.1021/acs.langmuir.6b00596

2. Hélène Gaudreau, Claude P. Champagne, Gabriel E. Remondetto, Pedro A. Alvarez, Muriel Subirade, Tea extract render probiotic *Lactobacillus helveticus* more resistant to oxygen exposure through lipid modification mechanism, Food Research International 81 · December 2015, DOI: 10.1016/j.foodres.2015.12.031

Ilie Mihaela, Margina Denisa, Katona Eva, **Ganea Constanta**, Cornelia Pencea, et al., Quercetin and epigallocatechin gallate effect on the lipid order parameter of peripheral blood mononuclear cells from diabetes patients. **ROMANIAN BIOTECHNOLOGICAL LETTERS** Volume: 14 nr. 6, Pages: 4804-4811, 2009

1. Chiou, Yi-Ling; Lin, Shinne-Ren; Hu, Wan-Ping; et al., Quercetin modulates activities of Taiwan cobra phospholipase A(2) via its effects on membrane structure and membrane-bound mode of phospholipase A(2), JOURNAL OF BIOSCIENCES, 37, 277-287, 2012

2. Hamdoon A. Mohammed, Salmin K. Alshalmani and Awad Giumma Abdellatif, Antioxidant and Quantitative Estimation of Phenolic and Flavonoids of Three Halophytic Plants Growing in Libya, Journal of Pharmacognosy and Phytochemistry 2013; 2 (3): 89-94

3. Mohammed HA1*, Elshalmany SK1, Belkhaer A1, Abdellatif AG2, ..Salmin K. Alshalmani, Phytochemical and Antioxidant Screening of Suaeda vera L. growing in Libya, IJPRS, V-3, 1-2, 2014

4. Wintola O.A., Afolayan A.J., The antibacterial, phytochemicals and antioxidants evaluation of the root extracts of *Hydnora africana* Thunb. used as antidiarrheic in Eastern Cape Province, South Africa, BMC Complementary and Alternative Medicine 15(1):307 · September 2015

Constanta Ganea and Klaus Fendler, Bacterial transporters: Charge translocation and mechanism, *BBA – Bioenergetics*, vol. 1787, Issue 6, pp. 706-713, Jun 2009

1. Lorenz-Fonfria VA, Granell M, Leon X, et al. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 131 Issue: 42 Pages: 15094-+ Published: OCT 28 2009
2. Balannik V, Obrdlik P, Inayat S, et al. PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY Volume: 459 Issue: 4 Pages: 593-605 Published: MAR 2010
3. Obrdlik P, Diekert K, Watzke N, et al. BIOCHEMICAL JOURNAL Volume: 427 Pages: 151-159 Part: Part 1 Published: APR 1 2010
4. Gaiko O, Janausch I, Geibel S, et al., AUSTRALIAN JOURNAL OF CHEMISTRY Volume: 64 Issue: 1 Pages: 31-35 Published: 2011
5. Lingner Ulrike; Muench Steffen; Sode Bjoern; et al. Source: PLANT PHYSIOLOGY Volume: 156 Issue: 3 Pages: 1565-1576 DOI: 10.1104/pp.111.178624 Published: JUL 2011
6. Mager Thomas; Rimon Abraham; Padan Etana; et al. Source: JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 286 Issue: 26 Pages: 23570-23581 DOI: 10.1074/jbc.M111.230235 Published: JUL 1 2011
7. Orłowski, John; Grinstein, Sergio, COMPREHENSIVE PHYSIOLOGY Volume: 1 Issue: 4 Pages: 2083-2100 DOI: 10.1002/cphy.c110020 Published: OCT 2011
8. Kozachkov, Lena; Padan, Etana: MOLECULAR MEMBRANE BIOLOGY Volume: 30 Issue: 1 Pages: 90-100 DOI: 10.3109/09687688.2012.693209 Published: FEB 2013
9. Grewer, Christof; Gameiro, Armanda; Mager, Thomas; et al. Electrophysiological Characterization of Membrane Transport Proteins Book Editor(s): Dill, KA Source: ANNUAL REVIEW OF BIOPHYSICS, VOL 42 Book Series: Annual Review of Biophysics Volume: 42 Pages: 95-120 DOI: 10.1146/annurev-biophys-083012-130312 Published: 2013
10. Lin, Yibin; Fuerst, Oliver; Granell, Meritxell; et al., The substitution of Arg149 with Cys fixes the melibiose transporter in an inward-open conformation, BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1828 Issue: 8 Pages: 1690-1699 DOI: 10.1016/j.bbamem.2013.03.003 Published: AUG 2013
11. Sacconi, Alessio; Moncelli, Maria Rosa; Margheri, Giancarlo; et al., Enhanced Adsorption of Ca-ATPase Containing Vesicles on a Negatively Charged Solid-Supported-Membrane for the Investigation of Membrane Transporters, LANGMUIR Volume: 29 Issue: 45 Pages: 13883-13889 DOI: 10.1021/la4034386 Published: NOV 12 2013 Species differences in bacterial NhaA Na⁺/H⁺ exchangers
12. Calinescu, Octavian; Danner, Eva; Boehm, Marc; et al. FEBS LETTERS Volume: 588 Issue: 17 Pages: 3111-3116 Published: AUG 25 2014
13. Bazzone, A., Costa, W.S., Braner, M., (...), Hatahet, L., Fendler, K., Introduction to solid supported membrane based electrophysiology, Journal of Visualized Experiments, 2013
14. Ye, J.-S., Shi, Y.-Z., Yin, H., (...), Long, Y., Lai, X.-Q., Characteristics of biodegradation of triphenyltin by enzyme obtained from Klebsiella, pneumoniae Huanjing Kexue/Environmental Science, 2010
15. Alexei A. Shutilov, Galina A. Zenkovets, Effect of the preparation procedure on the structural peculiarities and catalytic properties of Pt/(CeO₂-TiO₂) catalyst in CO oxidation, Studies in surface science and catalysis 175:369-372 · DOI: 10.1016/S0167-2991(10)75062-X,
16. Tadini-Buoninsegni, Francesco; Fendler, Klaus, RECORDING OF PUMP AND TRANSPORTER ACTIVITY USING SOLID-SUPPORTED MEMBRANES (SSM-BASED ELECTROPHYSIOLOGY), PUMPS, CHANNELS AND TRANSPORTERS: METHODS OF FUNCTIONAL ANALYSIS, p. , 2015
17. K.V. Niessen · S. Muschik · F. Langguth · S. Rappenglück · T. Seeger · H. Thiermann · F. Worek, Functional analysis of *Torpedo californica* nicotinic acetylcholine receptors in multiple activation states by SSM-based electrophysiology, Toxicology Letters · February 2016, DOI: 10.1016/j.toxlet.2016.02.002
18. Tadini-Buoninsegni, F (Tadini-Buoninsegni, Francesco); Bartolommei, G (Bartolommei, Gianluca, Electrophysiological Measurements on Solid Supported Membranes, P-TYPE ATPASES: METHODS AND PROTOCOLS, Book Series: Methods in Molecular Biology, Volume: 1377, Pages: 293-303, 2016
19. Siebels, I, Droese, S, NADH:ubiquinone oxidoreductase (complex I) from *Yarrowia lipolytica* measured on solid-supported membranes, Biochemical and Biophysical Research Communications 479(2) · September 2016
20. Narang, Atul; Oehler, Stefan, Effector Overlap between the lac and mel Operons of *Escherichia coli*: Induction of the mel Operon with beta-Galactosides, JOURNAL OF BACTERIOLOGY, vol. 199, issue 9, 2017, DOI: 10.1128/JB.00796-16

Baran, Irina ; **Ganea, Constanta** ; Baran, Virgil, A two-gate model for the ryanodine receptor with allosteric modulation by caffeine and quercetin, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS Volume: 37 Issue: 6 Pages: 793-806 DOI: 10.1007/s00249-008-0271-6 Published: JUL 2008

1. Mukherjee, Saptarshi; Thomas, N. Lowri; Williams, Alan J., JOURNAL OF GENERAL PHYSIOLOGY Vol: 40 , Issue:2, Pages: 139-158 DOI: 10.1085/jgp.201110/06 Published: AUG 2012
2. Baran, I., Popescu, A., A model-based method for estimating Ca²⁺ release fluxes from linescan images in *Xenopus oocytes*, Chaos, 2009

Mihaela Ilie, Denisa Margina, Luciana Nisiparu, **Constanta Ganea**, Katona Eva, FLAVONOIDS EFFECT ON THE LIPID ORDER PARAMETER OF PERIPHERAL BLOOD MONONUCLEAR CELLS, *Romanian J. Biophys.*, 2009, 19(1):43-48, indexata in IndexCopernicus; ISSN: 1220-515X

1. Salmin K. Alshalmani Hamdoon A. Mohammed, Awad Giumma Abdellatif , Antioxidant and Quantitative Estimation of Phenolic and Flavonoids of Three Halophytic Plants Growing in Libya , J. of Pharmacognosy and Phytochemistry, 2013; 2 (3): 89-94, ISSN , 2278-4136 , 2013; 2 (3): 89-9
2. Mohammed HA1*, Elshalmany SK1, Belkhaer A1, Abdellatif AG, ,Salmin Al-Shalmani, Phytochemical and Antioxidant Screening of Suaeda vera L. growing in Libya International Journal for Pharmaceutical Research Scholars, IJPRS, V-3, I-2, 2014
3. OA Wintola, AJ Afolayan, The antibacterial, phytochemicals and antioxidants evaluation of the root extracts of *Hydnora africana* Thunb. used as antidysenteric in Eastern Cape Province, South Africa, BMC Complementary and Alternative Medicine, 15(1):307 · September 2015

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. Sharma, Parag; Roy, Sukhdev, OPTICAL MATERIALS EXPRESS Volume: 2 Issue: 5 Pages: 548-565 Published: MAY 1 2012
2. Alvarez M, Lechuga LM, ANALYST Volume: 135 Issue: 5 Pages: 827-836 Published: 2010
3. Ji HF, Gao HY, Buchapudi KR, et al., ANALYST Volume: 133 Issue: 4 Pages: 434-443, 2008
4. Ghatkesar MK, Lang HP, Gerber C, et al. Source: PLOS ONE Volume: 3 Issue: 11 Article Number: e3610 Published: NOV 3 2008
5. Buchapudi KR, Huang X, Yang X, et al. Source: ANALYST Volume: 136 Issue: 8 Pages: 1539-1556 Published: 2011
6. Murali Krishna Ghatkesar, Hans-Peter Lang, Christoph Gerber, Martin Hegner, Thomas Braun, Comprehensive characterization of molecular interactions based on nanomechanics. Available from: https://www.researchgate.net/publication/277116820_Comprehensive_characterization_of_molecular_interactions_based_on_nanomechanics , Plos One, 2008
7. Toth-Boconadi, R., Time course of purple membrane bending during the photocycle of bacteriorhodopsins, Journal of Biological Physics and Chemistry, 15(2), pp. 55-62, 2015
8. Galajda, Peter; Kelemen, Lorand ; Vegh, Gergely A., Micro- and nanotechnology for cell biophysics, Acta Biologica Szegediensis, 59(2), 303-321, 2015
9. Murali Krishna Ghatkesar, Christoph Gerber, Martin Hegner, Thomas Braun, Comprehensive characterization of molecular interactions based on nanomechanics; PLoS ONE 3(11): e3610. doi:10.1371/journal.pone.000361
10. S, Youngjun Kim, Pavel Neuzil, Chang-Hoon Nam, Martin Engelhard, Deposition of Bacteriorhodopsin Protein in a Purple Membrane Form on Nitrocellulose Membranes for Enhanced Photoelectric Response, Sensors 13(1):455-62 · December 2012 DOI: 10.3390/s130100455 · ,

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. Guan Lan; Jakkula S. Vivek; Hodkoff Alexey A.; et al., BIOCHEMISTRY Vol: 51 Issue: 13 Pages: 2950-2957 DOI: 10.1021/bi300230h Published: APR 3 2012
2. Garcia-Celma JJ, Ploch J, Smirnova I, et al. BIOCHEMISTRY Volume: 49 Issue: 29 Pages: 6115-6121 Published: JUL 27 2010

3. Yousef MS, Guan L, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 106 Issue: 36 Pages: 15291-15296 Published: SEP 8 2009
4. Krause R, Watzke N, Kelety B, et al. JOURNAL OF NEUROSCIENCE METHODS Volume: 177 Issue: 1 Pages: 131-141 Published: FEB 15 2009
5. Leon X, Leblanc G, Padros EBIOPHYSICAL JOURNAL Volume: 96 Issue: 12 Pages: 4877-4886 Published: JUN 17 2009
6. Angers M, Uldry M, Kong D, et al.Source: BIOCHEMICAL JOURNAL Volume: 416 Pages: 347-355 Part: Part 3 Published: DEC 15 2008
7. Schulz P, et al.,Source: METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 2008
8. 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
9. Garcia-Celma JJ, Dueck B, Stein M, et al.Source: LANGMUIR Volume: 24 Issue: 15 Pages: 8119-8126 Published: AUG 5 2008
10. 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
11. Tyagi NK, Kumar A, Goyal P, et al.Source: BIOCHEMISTRY Volume: 46 Issue: 47 Pages: 13616-13628 Published: NOV 27 2007
12. Granell M, Leon X, Leblanc G, et al., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 107 Issue: 51 Pages: 22078-22083 Published: DEC 21 2010
13. Guan L, Nurva S, Ankeshwarapu SP, JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 286 Issue: 8 Pages: 6367-6374 Published: FEB 25 2011
14. Mager Thomas; Rimon Abraham; Padan Etana; et al.Source: JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 286 Issue: 26 Pages: 23570-23581 DOI: 10.1074/jbc.M111.230235 Published: JUL 1 2011
15. Grever, Christof; Gameiro, Armanda; Mager, Thomas; et al. Electrophysiological Characterization of Membrane Transport Proteins Book Editor(s): Dill, KASource: ANNUAL REVIEW OF BIOPHYSICS, VOL 42Book Series: Annual Review of Biophysics Volume: 42 Pages: 95-120 DOI: 10.1146/annurev-biophys-083012-130312 Published: 2013
16. Lin, Yibin; Fuerst, Oliver; Granell, Meritxell; et al., The substitution of Arg149 with Cys fixes the melibiose transporter in an inward-open conformation, BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1828 Issue: 8 Pages: 1690-1699 DOI: 10.1016/j.bbamem.2013.03.003 Published: AUG 2013
17. Ethayathulla, Abdul S.; Yousef, Mohammad S.; Amin, Anowarul; et al. NATURE COMMUNICATIONS Volume: 5 Article Number: 3009 Published: JAN 2014 Suppression of
18. Hariharan, Parameswaran; Balasubramaniam, Dhandayuthapani; Peterkofsky, Alan; et al., Thermodynamic mechanism for inhibition of lactose permease by the phosphotransferase protein IIA(Glc), PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 112 Issue: 8 Pages: 2407-2412 Published: FEB 24 2015
19. Oliver Fuerst, Yibin Lin, Meritxell Granell, Gérard Leblanc, Esteve Padrós, Victor A Lórenz-Fonfría, Josep Cladera, Melibiose Transporter of Escherichia coli: Critical Contribution of Lys377 to the Structural Organization of the Interacting Substrate Binding Sites, Journal of Biological Chemistry 05/2015; DOI:10.1074/jbc.M115.642678
20. Andre Bazzone, Maria Barthmes Klaus Fendler, SSM-Based Electrophysiology for Transporter Research, Chapter in Methods in Enzymology · July 2017 DOI: 10.1016/bs.mie.2017.05.008 In book: Methods in Enzymology, Volume 594, Chapter: 2, pp.31-83
21. Vidhya Ravi, Structure and dynamics of a membrane symporter: The Melibiose Permease., PhD thesis, March 2016

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
22. By: Amin, Anowarul; Ethayathulla, Abdul S.; Guan, Lan. Conformation-Compromised Mutants of Salmonella enterica Serovar Typhimurium MelB JOURNAL OF BACTERIOLOGY Volume: 196 Issue: 17 Pages: 3134-3139 Published: SEP 2014
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 HS 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. Masover 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
10. Reyes N, Ginter C, Boudker O, NATURE Volume: 462 Issue: 7275 Pages: 880-885 Published: DEC 17 2009
11. Casagrande F, Harder D, Schenk A, et al., JOURNAL OF MOLECULAR BIOLOGY Volume: 394 Issue: 4 Pages: 708-717 Published: DEC 11 2009
12. Schulz P, Dueck B, Mourot A, et al. BIOPHYSICAL JOURNAL Volume: 97 Issue: 1 Pages: 388-396 Published: JUL 8 2009
13. Ryan RM, Compton ELR, Mindell JA, JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 284 Issue: 26 Pages: 17540-17548 Published: JUN 26 2009
14. Reyes N, Ginter C, Boudker O Source: NATURE Volume: 462 Issue: 7275 Pages: 880-885 Published: DEC 17 2009
15. Tsai CJ, Ziegler C, CURRENT OPINION IN STRUCTURAL BIOLOGY Volume: 20 Issue: 4 Pages: 448-455 Published: AUG 2010
16. Kovermann P, Machtens JP, Ewers D, et al. JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 285 Issue: 31 Pages: 23676-23686 Published: JUL 30 2010
17. Groeneveld M, Weme RGJDO, Duurkens RH, et al. JOURNAL OF BACTERIOLOGY Volume: 192 Issue: 11 Pages: 2900-2907 Published: JUN 2010
18. Jiang J, Amara SG, NEUROPHARMACOLOGY Volume: 60 Issue: 1 Pages: 172-181 Published: JAN 2011
19. Hanelt, Inga; Wunnicke, Dorith; Bordignon, Enrica; et al., NATURE STRUCTURAL & MOLECULAR BIOLOGY Volume: 20 Issue: 2 Pages: 210-214 DOI: 10.1038/nsmb.2471 Published: FEB 2013
23. Jakkula, S. Vivek; Guan, Lan, JOURNAL OF BACTERIOLOGY Volume: 194 Issue: 20 Pages: 5538-5544 DOI: 10.1128/JB.01206-12 Published: OCT 2012
20. Jaehme, Michael; Michel, Hartmut FEBS JOURNAL Volume: 280 Issue: 4 Pages: 1112-1125 DOI: 10.1111/febs.12105 Published: FEB 2013
21. Crichton, Paul G.; Harding, Marilyn; Ruprecht, Jonathan J.; et al., JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 288 Issue: 30 Pages: 22163-22173 Published: JUL 26 2013
22. Kaur, Jagdeep; Olkhova, Elena; Malviya, Viveka Nand; et al. JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 289 Issue: 3 Pages: 1377-1387 Published: JAN 17 2014
23. I B Cordeiro, D P Castro, P P O Nogueira, P C S Angelo, P A Nogueira, J F C Gonçalves, A M R F Pereira, J S Garcia, G H M F Souza, M A Z Arruda, M N Eberlin, S Astolfi-Filho, E V Andrade, J L López-Lozano, Electrophoresis and spectrometric analyses of adaptation-related proteins in thermally stressed *Chromobacterium violaceum*, Laboratório de Biologia Molecular, Centro de Apoio Multidisciplinar, Universidade Federal do Amazonas, Manaus, AM, Brasil. Genetics and molecular research: GMR.01/2013; 12(4):5057-71. DOI: 10.4238/2013.October.29.1
24. Vanessa Leone, Denys Pogoryelov, Thomas Meier, ...On the principle of ion selectivity in Na⁺/H⁺-coupled membrane proteins: Experimental and theoretical studies of an ATP synthase rotor. Proceedings of the National Academy of Sciences of the United States of America 02/2015; DOI: 10.1073/pnas.1421202112
25. Moazur Rahman, Fouzia ismat, Simon G. Patching, Characterisation of the DAACS Family Escherichia coli Glutamate/Aspartate-Proton Symporter GltP Using Computational, Chemical, Biochemical and Biophysical Methods, Journal of membrane Biology, DOI: 10.1007/s00232-016-9942-x, dec. 2016
26. Dorith Wunnicke, Inga Hänel, The Synergetic Effects of Combining Structural Biology and EPR Spectroscopy on Membrane Proteins, Crystals 7(4):117 · April 2017, DOI: 10.3390/cryst7040117
27. Andre Bazzone, Maria Barthmes Klaus Fendler, SSM-Based Electrophysiology for Transporter Research, Chapter in Methods in Enzymology · July 2017 DOI: 10.1016/bs.mie.2017.05.008 In book: Methods in Enzymology, Volume 594, Chapter: 2, pp.31-83
28. Valentina Arkhipova, Albert Guskov, Dirk-Jan Slotboom, Analysis of the quality of crystallographic data and the limitations of structural models, Journal of General Physiology · October 2017, DOI: 10.1085/jgp.201711852 · License: CC BY-NC-SA 4.0
29. Hariharan Parameswaran, Lan Guan, Thermodynamic cooperativity of cosubstrate binding and cation selectivity of *Salmonella typhimurium* MelB, The Journal of

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, Bartolommei 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
15. Yousef MS, Guan L, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 106 Issue: 36 Pages: 15291-15296 Published: SEP 8 2009
16. Schulz P, Dueck B, Mourrot A, et al. BIOPHYSICAL JOURNAL Volume: 97 Issue: 1 Pages: 388-396 Published: JUL 8 2009
17. Leon X, Leblanc G, Padros E, BIOPHYSICAL JOURNAL Volume: 96 Issue: 12 Pages: 4877-4886 Published: JUN 17 2009
18. Garcia-Celma JJ, Smirnova IN, Kaback HR, et al., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 106 Issue: 18 Pages: 7373-7378 Published: MAY 5 2009
19. Watzke N, Diekert K, Obrdlik P, Source: BIOCHEMISTRY Volume: 49 Issue: 48 Pages: 10308-10318 Published: DEC 7 2010
20. Garcia-Celma JJ, Ploch J, Smirnova I, et al., Source: BIOCHEMISTRY Volume: 49 Issue: 29 Pages: 6115-6121 Published: JUL 27 2010
21. Granell M, Leon X, Leblanc G, et al., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 107 Issue: 51 Pages: 22078-22083 Published: DEC 21 2010
22. Watzke N, Diekert K, Obrdlik P, BIOCHEMISTRY Volume: 49 Issue: 48 Pages: 10308-10318 Published: DEC 7 2010
23. Alexei A. Shutilov, Galina A. Zenkovets, Effect of the preparation procedure on the structural peculiarities and catalytic properties of Pt/(CeO₂-TiO₂) catalyst in CO oxidation, Studies in surface science and catalysis 01/2010; 175:369-372. DOI: 10.1016/S0167-2991(10)75062-X
24. Shi, L., Molecular modeling and simulations of transporter proteins - the transmembrane allosteric machinery (Book Chapter), Comprehensive Biophysics, 2012
25. Alexei A. Shutilov, Galina A. Zenkovets, Effect of the preparation procedure on the structural peculiarities and catalytic properties of Pt/(CeO₂-TiO₂) catalyst in CO oxidation, Studies in surface science and catalysis 175:369-372 ·DOI: 10.1016/S0167-2991(10)75062-X
26. Andre Bazzone, Maria Barthmes Klaus Fendler, SSM-Based Electrophysiology for Transporter Research, Chapter in Methods in Enzymology · July 2017 DOI: 10.1016/bs.mie.2017.05.008, In book: Methods in Enzymology, Volume 594, Chapter: 2, pp.31-83

27. Andre Bazzone, Annas J Zabadne, Anastasia Salisowski, M. Gregor Madej, Klaus Fendler, A Loose Relationship: Incomplete H⁺/Sugar Coupling in the MFS Sugar Transporter GlcP, December 2017, *Biophysical Journal* 113(12):2736-2749, DOI:10.1016/j.bpj.2017.09.038

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
2. Xi, Bangwei; Tetley, William C.; Marcy, Duane L.; et al. Evaluation of blue and green absorbing proteorhodopsins as holographic materials, JOURNAL OF PHYSICAL CHEMISTRY B Volume: 112 Issue: 8 Pages: 2524-2532 Published: FEB 28 2008
3. Magyari, K; Simon, V; Varo, G, The influence of the halide ions on the photochemical reaction cycle of pharaonis halorhodopsin, JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY Volume: 82 Issue: 1 Pages: 16-20 Published: JAN 2 2006
4. Inoue, K., Kubo, M., Demura, M., Kamo, N., Terazima, M., Reaction dynamics of halorhodopsin studied by time-resolved diffusion, *Biophysical Journal*, 2009
5. Thomas Köhler, Ingrid Weber, Clemens Glaubitz, Josef Wachtveitl, Proteorhodopsin Photocycle Kinetics Between pH 5 and pH 9, *Photochemistry and Photobiology* 93(3):762-771 · June 2017, DOI: 10.1111/php.12753

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. Sharma Parag; Roy Sukhdev, OPTICAL MATERIALS EXPRESS Volume: 2 Issue: 5 Pages: 548-565 Published: MAY 1 2012
2. Maiti TK, Engelhard M, Sheves M Source: JOURNAL OF MOLECULAR BIOLOGY Volume: 394 Issue: 3 Pages: 472-484 Published: DEC 4 2009
3. Inoue K, Kubo M, Demura M, et al. Source: BIOPHYSICAL JOURNAL Volume: 96 Issue: 9 Pages: 3724-3734 Published: MAY 6 2009
4. Kubo M, Kikukawa T, Miyauchi S, et al., PHOTOCHEMISTRY AND PHOTOBIOLOGY Volume: 85 Issue: 2 Pages: 547-555 Published: MAR-APR 2009
5. Maiti TK, Engelhard M, Sheves M, JOURNAL OF MOLECULAR BIOLOGY Volume: 394 Issue: 3 Pages: 472-484 Published: DEC 4 2009
6. Seki A, Miyauchi S, Hayashi S, et al. BIOPHYSICAL JOURNAL 92 (7): 2559-2569 APR 1 2007
7. Guijarro J, Engelhard M, Siebert F. BIOCHEMISTRY 45 (38): 11578-11588 SEP 26 2006
8. Magyari K, Simon V, Varo G. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 82 (1): 16-20 JAN 2 2006
9. Roy S, Kulshrestha K. IEEE TRANSACTIONS ON NANOBIOSCIENCE 5 (4): 281-287 DEC 2006
10. Yuji Furutani, Tetsunari Kimura, Kido Okamoto, Development of a rapid Buffer-exchange system for time-resolved ATR-FTIR spectroscopy with the step-scan mode, *BIOPHYSICS* 08/2013; 9:123-129. DOI: 10.2142/biophysics.9.123
11. Khanafari, A., Khavarinejad, D., Mashinchian, A. Year Solar salt lake as natural environmental source for extraction halophilic pigments, 2010, *Iranian Journal of Microbiology* Murugan
12. Suresh, B Renugadevi, S Brammavidhya, Palanisamy Iyapparaj, Perumal Anantharaman, Antibacterial Activity of Red Pigment Produced by Halolactibacillus alkaliphilus MSR D1—an Isolate from Seaweed, *Applied biochemistry and biotechnology* 03/2015; DOI:10.1007/s12010-015-1566-6
13. Suresh, Murugan; Renugadevi, B.; Brammavidhya, S.; et al. APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY Volume: 176 Issue: 1 Pages: 185-195 Published: MAY 2015

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. Massimo Trotta Francesco Milano Marta Dorogi[...]László Nagy, Protein/lipid interaction in bacterial photosynthetic reaction center: The role of phosphatidylcholine and phosphatidylglycerol in charge stabilization, Chapter: *Photosynthesis: Fundamental Aspects to*

- Global Perspectives, Publisher: Alliance Communications Group, Editors: A. van der Est, D. Bruce, pp.193-195, Jan 2005
6. Dorogi M, Balint Z, Miko C, et al. JOURNAL OF PHYSICAL CHEMISTRY B 110 (43): 21473-21479 NOV 2 2006
 7. Scholz Frank; Bamberg Ernst; Bamann Christian; et al., BIOPHYSICAL JOURNAL Volume: 102 Issue: 11 Pages: 2649-2657 DOI: 10.1016/j.bpj.2012.04.034 Published: JUN 6 2012
 8. Nakanishi, Taichi; Kanada, Soun; Murakami, Midori; et al. Source: BIOPHYSICAL JOURNAL Volume: 104 Issue: 2 Pages: 377-385 DOI: 10.1016/j.bpj.2012.12.018 Published: JAN 22 2013
 9. Szabo, Tibor; Bencsik, Gabor; Magyar, Melinda; et al., Photosynthetic reaction centers/ITO hybrid nanostructure, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 33 Issue: 2 Pages: 769-773 DOI: 10.1016/j.msec.2012.10.031 Published: MAR 1 2013
 10. Yuji Furutani Molecular Mechanisms for Ion Transportation of Microbial Rhodopsins Studied by Light-Induced Difference FTIR Spectroscopy, DOI: 10.1007/978-4-431-55516-2_5, 2015
 11. Xiao-Ru Chen, Yuan-Chi Huang, Hsiu-Ping Yi, Chii-Shen Yang, A Unique Light-Driven Proton Transportation Signal in Halorhodopsin from *Natronomonas pharaonis*, Biophysical Journal, Article, DOI: 10.1016/j.bpj.2016.11.003, vol. 111 (12), pp. 2600-2607, December 2016
 12. Kata Hajdu, Tibor Szabó Abd El Aziz Sarrai... László Nagy, Functional Nanohybrid Materials from Photosynthetic Reaction Center Proteins, International Journal of Photoenergy, International Journal of Photoenergy 2017(4):1-14 · September 2017, DOI: 10.1155/2017/9128291

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. Klaus Fendler, Martin Klingenberg, Gérard Leblanc, Jan Joep H. H. M. DePont, Bela Kelety, Wolfgang Dörner, Ernst Bamberg, Transport Proteins on Solid-Supported Membranes: From Basic Research to Drug Discovery, In book: Ultrathin Electrochemical Chemo- and Biosensors, DOI: 10.1007/978-3-662-05204-4_13, pp.331-349, 2004
6. Zuber D, Krause R, Venturi M, et al. BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS 1709 (3): 240-250 SEP 30 2005
7. Leon X, Lemonnier R, et al. BIOPHYSICAL JOURNAL 91 (12): 4440-4449 DEC 2006
8. Kelety B, Diekert K, Tobien J, et al. ASSAY AND DRUG DEVELOPMENT TECHNOLOGIES 4 (5): 575-582 OCT 2006
9. Schulz P et. al, METHODS Volume: 46 Issue: 2 Pages: 97-103 Published: OCT 12.2008
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. Harder D, Stolz J, Casagrande F, et al. Source: FEBS JOURNAL Volume: 275 Issue: 13 Pages: 3290-3298 Published: JUL 2008
13. 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
14. Dave N, Lorenz-Fonfria VA, Lablanc G, et al. Source: BIOPHYSICAL JOURNAL Volume: 94 Issue: 9 Pages: 3659-3670 Published: MAY 1 2008
15. Leon X, Leblanc G, Padros E, BIOPHYSICAL JOURNAL Volume: 96 Issue: 12 Pages: 4877-4886 Published: JUN 17 2009
16. Garcia-Celma JJ, Smirnova IN, Kaback HR, et al., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 106 Issue: 18 Pages: 7373-7378 Published: MAY 5 2009
17. Krause R, Watzke N, Kelety B, et al. JOURNAL OF NEUROSCIENCE METHODS Volume: 177 Issue: 1 Pages: 131-141 Published: FEB 15 2009
18. Garcia-Celma JJ, Ploch J, Smirnova I, et al., Source: BIOCHEMISTRY Volume: 49 Issue: 29 Pages: 6115-6121 Published: JUL 27 2010

19. Granell M, Leon X, Leblanc G, et al., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 107 Issue: 51 Pages: 22078-22083 Published: DEC 21 2010
20. Guan L, Nurva S, Ankeshwarapu SP Source: JOURNAL OF BIOLOGICAL CHEMISTRY Volume: 286 Issue: 8 Pages: 6367-6374 Published: FEB 25 2011
21. Rycovska Adriana; Hatahet Lina; Fendler Klaus; et al., BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1818 Issue: 5 Pages: 1342-1350 DOI: 10.1016/j.bbamem.2012.02.004 Published: MAY 2012
22. Guan Lan; Jakkula S. Vivek; Hodkoff Alexey A.; et al., BIOCHEMISTRY Volume: 51 Issue: 13 Pages: 2950-2957 DOI: 10.1021/bi300230h Published: APR 3 2012
23. Blesneac, Iulia; Ravaud, Stephanie; Machillot, Paul; et al., EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS Volume: 41 Issue: 8 Pages: 675-679 DOI: 10.1007/s00249-012-0844-2 Published: AUG 2012
24. Jakkula, S. Vivek; Guan, Lan, JOURNAL OF BACTERIOLOGY Volume: 194 Issue: 20 Pages: 5538-5544 DOI: 10.1128/JB.01206-12 Published: OCT 2012
25. Adriana Rycovska-Blume, Wei Lü, Susana Andrade, Klaus Fendler, Oliver Einsle , Chapter Twenty-Two. Structural and Functional Studies of NirC from Salmonella typhimurium , Methods in enzymology 556:475-97 · December 2015
26. Alexei A. Shutilov, Galina A. Zenkovets, Effect of the preparation procedure on the structural peculiarities and catalytic properties of Pt/(CeO 2-TiO 2) catalyst in CO oxidation, Studies in surface science and catalysis 175:369-372 ·DOI: 10.1016/S0167-2991(10)75062-X
27. Andre Bazzone, Maria Barthmes Klaus Fendler, SSM-Based Electrophysiology for Transporter Research, Chapter in Methods in Enzymology · July 2017 DOI: 10.1016/bs.mie.2017.05.008 In book: Methods in Enzymology, Volume 594, Chapter: 2, pp.31-83
28. Hariharan, Parameswaran; Guan, Lan, Thermodynamic cooperativity of cosubstrate binding and cation selectivity of Salmonella typhimurium MelB, JOURNAL OF GENERAL PHYSIOLOGY, Volume: 149, Issue: 11, Pages: 1029-1039, Published: NOV 2017

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. Askari ANA/K-ATPASE AND RELATED ATPASES Book Series: INTERNATIONAL CONGRESS SERIES Volume: 1207 Pages: 17-26 Published: 2000
4. Babes A, Fendler K BIOPHYSICAL JOURNAL Volume: 79 Issue: 5 Pages: 2557-2571 Published: NOV 2000
5. Fujise H, Ka T, Katoh M Book Series: INTERNATIONAL CONGRESS SERIES Volume: 1207 Pages: 17-26 Published: 2000
6. Bamberg E, Clarke RJ, Fendler K, JOURNAL OF BIOENERGETICS AND BIOMEMBRANES Volume: 33 Issue: 5 Pages: 401-405 Published: OCT 2001
7. Clarke RJ ADVANCES IN COLLOID AND INTERFACE SCIENCE Volume: 89 Special Issue: Sp. Iss. SI Pages: 263-281 Published: JAN 29 2001
8. Lupfert C, Grell E, Pintschovius V, et al. BIOPHYSICAL JOURNAL Volume: 81 Issue: 4 Pages: 2069-2081 Published: OCT 2001
9. Sokolov VS et al. - EUR BIOPHYS J BIOPHY 30 (7): 515-527 DEC 2001
10. Bamberg E. et al. - J BIOENERG BIOMEMBR 33 (5): 401-405 OCT 2001
11. Passechnik VI, Sokolov VS BIOELECTROCHEMISTRY 55 (1-2): 47-51 JAN 2002
12. Hansen PS, Buhagiar KA, Kong BY, et al. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY Volume: 283 Issue: 5 Pages: C1511-C1521 Published: NOV 2002
13. Cornelius F, Turner N, Christensen HRZBIOCHEMISTRY Volume: 42 Issue: 28 Pages: 8541-8549 Published: JUL 22 2003
14. Buoninsegni FT, Dolfi A, Guidelli R , COLLECT CZECH CHEM C 69 (2): 292-308 2004
15. Fedosova NU, Esmann M, BIOCHEMISTRY 43 (14): 4212-4218 APR 13 2004
16. Kong BY, Clarke RJBIOCHEMISTRY Volume: 43 Issue: 8 Pages: 2241-2250 Published: MAR 2 2004
17. Starke-Peterkovic T, Turner N, Else PL, et al., AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY 288 (3): R663-R670 MAR 2005
18. Esmann M, Fedosova NU, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 33 (8): 683-690 DEC 2004
19. Ayuyan AG, Sokolov VS, Apell HJ, BIOLOGICHESKIE MEMBRANY 21 (5): 406-414 SEP-OCT 2004
20. Starke-Peterkovic T, Turner N, Vitha MF, et al. BIOPHYSICAL JOURNAL 90 (11): 4060-4070 JUN 2006

21. Ayuyan AG, Sokolov VS, Lenz AA, et al. EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 35 (3): 247-254 FEB 2006
22. Szalontai, Balazs; Nagy, Gergely; Krumova, Sashka; et al. Hofmeister ions control protein dynamics BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS Volume: 1830 Issue: 10 Pages: 4564-4572 DOI: 10.1016/j.bbagen.2013.05.036 Published: OCT 2013
23. Mares, Laura J.; Garcia, Alvaro; Rasmussen, Helge H.; et al. Identification of Electric-Field-Dependent Steps in the Na⁺,K⁺-Pump Cycle, BIOPHYSICAL JOURNAL Volume: 107 Issue: 6 Pages: 1352-1363 Published: SEP 16 2014
24. Tadini-Buoninsegni, Francesco; Moncelli, Maria Rosa; Peruzzi, Niccolo; Ninham, Barry W.; Dei, Luigi; Lo Nostro, Pierandrea, Hofmeister effect of anions on calcium translocation by sarcoplasmic reticulum Ca²⁺-ATPase, Volume:5 Article Number: 14282, Published: OCT 5 2015
25. Clarke, RJ, Dipole-Potential-Mediated Effects on Ion Pump Kinetics, BIOPHYSICAL JOURNAL, 109(8), 1513-1520, 2015
26. Asghar Razavi, Lucie Delemotte, Joshua R Berlin, Vincenzo Carnevale, Vincent A Voelz, Molecular simulations and free-energy calculations suggest conformation-dependent anion binding to a cytoplasmic site as a mechanism for Na⁺ /K⁺ -ATPase ion selectivity, Journal of Biological Chemistry, DOI: 10.1074/jbc.M117.779090, Jun 2017

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. Tokes S, Orzo L, Varo G, et al. BIOELECTRONIC APPLICATIONS OF PHOTOCROMIC PIGMENTS Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 54-73 Published: 2001
6. Kes ST, Orzo L, Roska T CELLULAR NEURAL NETWORKS AND THEIR APPLICATIONS Pages: 148-155 Published: 2002
7. Orzo L, Kes ST, Roska T CELLULAR NEURAL NETWORKS AND THEIR APPLICATIONS Pages: 156-163 Published: 2002
8. Tokes S, Orzo L, Ayoub A, et al., J. OF CIRCUITS SYSTEMS AND COMPUTERS 12 (6): 739-767 DEC 2003
9. Tokes S, Orzo L, Ayoub A, et al. MILITARY REMOTE SENSING Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 5613 Pages: 154-165 Published: 2004
10. He T, Friedman N, Cahen D, et al., ADVANCED MATERIALS 17 (8): 1023+ APR 18 2005
11. Toth-Boconadi R, Der A, Taneva SG, et al. BIOPHYSICAL JOURNAL 90 (7): 2651-2655 APR 2006
12. Toth-Boconadi R, Der A, Fabian L, et al., PHOTOCHEMISTRY AND PHOTOBIOLOGY Volume: 85 Issue: 2 Pages: 609-613 Published: MAR-APR 2009
13. Toth-Boconadi R, Der A, Taneva SG, et al. Source: THEORETICAL CHEMISTRY ACCOUNTS Volume: 125 Issue: 3-6 Pages: 365-373 Published: MAR 2010
14. Chu LK, Yen CW, El-Sayed MA, Source: JOURNAL OF PHYSICAL CHEMISTRY C Volume: 114 Issue: 36 Pages: 15358-15363 Published: SEP 16 2010
15. Toth-Boconadi R, Der A, Keszthelyi L Source: BIOELECTROCHEMISTRY Volume: 81 Issue: 1 Pages: 17-21 Published: APR 2011
16. Szabolcs Tokes, Laszlo Orzo, Ahmed E. Ayoub, Tamas Roska, POAC (programmable optical array computer) applied for target recognition and tracking, Hungarian Academy of Sciences, Budapest, Hungary, Proceedings of SPIE - The International Society for Optical Engineering (Impact Factor: 0.2). 12/2004; DOI: 10.1117/12.573802

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, PROG SURF SCI 62: (1-6) 1-237 SEP-NOV 1999
4. Schmies G, Luttenberg B, Chizhov I, et al. 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, Glaubitz C, et al. PHOTOCHEMISTRY AND PHOTOBIOLOGY 83 (2): 226-231 MAR-APR 2007
12. Nielsen CH, ANALYTICAL AND BIOANALYTICAL CHEMISTRY Volume: 395 Issue: 3 Pages: 697-718 Published: OCT 2009
13. Zaitsev, S.Y., Solovyeva, D.O., Nabiev, I. Advances in Colloid and Interface Science, Volume 183-184, 15 November 2012, Pages 14-29
14. Song, Yifan; Gunner, M. R., Halorhodopsin pumps Cl⁻ and bacteriorhodopsin pumps protons by a common mechanism that uses conserved electrostatic interactions, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 111 Issue: 46 Pages: 16377-16382 Published: NOV 18 2014
15. Zaitsev, S. Yu; Solovyeva, D. O.; Nabiev, I. R. Nanobiohybrid structures based on the organized films of photosensitive membrane proteins, RUSSIAN CHEMICAL REVIEWS Volume: 83 Issue: 1 Pages: 38-81 Published: 2014
16. Zaitsev, S. Yu; Solovyeva, D. O.; Nabiev, I. R, Thin films and assemblies of photosensitive membrane proteins and colloidal nanocrystals for engineering of hybrid materials with advanced properties., Advances in Colloid and Interface Science (Impact Factor: 8.64). 07/2012; 183-184:14-29. DOI: 10.1016/j.cis.2012.07.003
17. Yifan Song, M R Gunner, Halorhodopsin pumps Cl⁻ and bacteriorhodopsin pumps protons by a common mechanism that uses conserved electrostatic interactions., Proceedings of the National Academy of Sciences, 10/2014; DOI: 10.1073/pnas.1411119111

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- 500 Published: AUG 1998
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. Batori-Tartsi Z, Ludmann K BIOELECTRONIC APPLICATIONS OF PHOTOCHROMIC PIGMENTS Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 137-148 Published: 2001
9. Varo G, BIOELECTRONIC APPLICATIONS OF PHOTOCHROMIC PIGMENTS Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 149-162 Published: 2001
10. Kietis P, Vengris M, Valkunas L BIOELECTRONIC APPLICATIONS OF PHOTOCHROMIC PIGMENTS Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 185-197 Published: 2001
11. Lukashov EP, Seifullina NK, Kolodner P - BIOL MEMBRANY 18 (2): 137-144 MAR-APR 2001
12. Dyukova TV BIOELECTRONIC APPLICATIONS OF PHOTOCHROMIC PIGMENTS Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 90-101 Published: 2001
13. Groma GI et al. - BIOPHYS J 81 (6): 3432-3441 DEC 2001
14. Der A, Keszthelyi L. - BIOCHEMISTRY-MOSCOW+ 66 (11): 1234-1248 NOV 2001
15. Jussila T, Li ML, Tkachenko NV, et al. - BIO BIOSENS BIOELECTRON 17 (6-7): 509-515 JUN 2002
16. Oka T, Yagi N, Tokunaga F, et al. BIOPHYS J 82 (5): 2610-2616 MAY 2002
17. Lazarova T, Sanz C, Sepulcre F, et al. BIOCHEMISTRY-US 41 (25): 8176-8183 JUN 25 2002
18. Sackmar et al., Annu.Rev.Biophys.Biomol. Struct. 2002, 31:443-84
19. Liang B, Li BF, Zhang JP, et al. NEW JOURNAL OF CHEMISTRY 26 (8): 1049-1053 2002
20. Xu J, Stickrath AB, Bhattacharya P, et al. BIOPHYSICAL JOURNAL 85 (2): 1128-1134 AUG 2003
21. Xu J, Bhattacharya P, Varo G BIOSENSORS & BIOELECTRONICS 19 (8): 885-892 MAR 15 2004
22. Lakatos M, Varo G JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 73 (3): 177-182 FEB 20 2004
23. Colonna A, Groma GI, Vos MHCHEMICAL PHYSICS LETTERS 415 (1-3): 69-73 OCT 24 2005
24. Wang WW, Knopf GK, Bassi ASBIOSENSORS & BIOELECTRONICS 21 (7): 1309-1319 JAN 15 2006
25. Wang WW, Knopf GK, Bassi ASOPTICAL ENGINEERING 45 (8): Art. No. 084001 AUG 2006
26. Lukashov EP, Pronskaya NABILOGICHESKIE MEMBRANY 23 (1): 14-20 JAN-FEB 2006

27. Morgan JE, Gennis RB, Maeda A Source: PHOTOCHEMISTRY AND PHOTOBIOLOGY Volume: 84 Issue: 4 Pages: 1038-1045 Published: JUL-AUG 2008
28. Griep MH, Walczak KA, Winder EM, et al., Quantum dot enhancement of bacteriorhodopsin-based electrodes, *BIOSENSORS & BIOELECTRONICS* ,Volume: 25 Issue: 6 Pages: 1493-1497 Published: FEB 15 2010
29. Dyukova TV, Druzhenko AB, Source: PHOTOCHEMISTRY AND PHOTOBIOLOGY Volume: 86 Issue: 6 Pages: 1255-1258 Published: NOV-DEC 2010
30. Al-Arife Khaled M.; Knopf George K.; Bassi Amarjeet S. *JOURNAL OF MICROELECTROMECHANICAL SYSTEMS*Volume: 20 Issue: 4 Pages: 800-810 DOI: 10.1109/JMEMS.2011.2159092 Published: AUG 2011
31. Brown, Leonid S. Proton-Pumping Microbial Rhodopsins - Ubiquitous Structurally Simple Helpers of Respiration and Photosynthesis, Edited by: HohmannMarriott, MF, *STRUCTURAL BASIS OF BIOLOGICAL ENERGY GENERATION* Book Series: Advances in Photosynthesis and Respiration Volume: 39 Pages: 1-20 Published: 2014
32. Anna Druzhenko, Tatyana V Dyukova, Sergey K Pirutin, Some factors affecting the process of photoinduced hydroxylaminolysis in different bacteriorhodopsin-based media, *Biophysics of Structure and Mechanism*, DOI: 10.1007/s00249-017-1211-0, May 2017

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
2. Ludmann K, Gergely C, Der A, et al. *BIOPHYSICAL JOURNAL* Volume: 75 Issue: 6 Pages: 3120-3126 Published: DEC 1998

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. Ludmann K, Gergely C, Der A, et al. *BIOPHYSICAL JOURNAL* Volume: 75 Issue: 6 Pages: 3120-3126 Published: DEC 1998
2. Kaulen AD -*BBA-BIOENERGETICS* 1460: (1) 204-219 Sp.Iss. SI AUG 30 2000
3. Wang JP - *PHOTOCHEM PHOTOBIOLOG* 71: (4) 476-480 APR 2000
4. Der A, Keszthelyi L *BIOCHEMISTRY-MOSCOW* Volume: 66 Issue: 11 Pages: 1234-1248 Published: NOV 2001
5. Hein M, Radu I, Klare JP, et al. *BIOCHEMISTRY-US* 43 (4): 995-1002 FEB 3 2004
6. Govorunova, Elena G.; Sineshchekov, Oleg A.; Li, Hai; et al. *JOURNAL OF BIOLOGICAL CHEMISTRY*Volume: 288 Issue: 41 Pages: 29911-29922 Published: OCT 11 2013
7. Spudich, John L.; Sineshchekov, Oleg A.; Govorunova, Elena G., Mechanism divergence in microbial rhodopsins, *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS* Volume: 1837 Issue: 5 Special Issue: SI Pages: 546-552 Published: MAY 2014

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. St. Moltke et al. (1995) *Israel J. of Chemistry*, vol 35, p. 401-414
2. Logunov (1995) *Biophys. J.* 68:1270-1282
3. VARO G, BROWN LS, SASAKI J, et al. *BIOCHEMISTRY* Volume: 34 Issue: 44 Pages: 14490-14499 Published: NOV 7 1995
4. VARO G, ZIMANYI L, FAN XL, et al. *BIOPHYSICAL JOURNAL* Volume: 68 Issue: 5 Pages: 2062-2072 Published: MAY 1995
5. Lanyi JK, Varo G *ISRAEL JOURNAL OF CHEMISTRY* Volume: 35 Issue: 3-4 Pages: 365-385 Published: 1995
6. K. Schulten et al. (1995) *Israel J. of Chemistry*, vol 35, p. 447-464
7. S. Misra et al. (1997) *Photochemistry and Photobiology*, 65 (8), p.1039-1044P.
8. Ormos et al. (1997) *J. Photochem. Photobiol. B*, 101, 10542
9. C. Zscherp et al. (1997) *J. Phys. Chem. B* 101, 10542
10. Ludmann K, Gergely C, Varo G *BIOPHYSICAL JOURNAL* Volume: 75 Issue: 6 Pages: 3110-3119 Published: DEC 1998
11. Kaulen AD *BBA-BIOENERGETICS* 1460: (1) 204-219 Sp. Iss. SI AUG 30 2000
12. Varo G *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS* Volume: 1460 Issue: 1 Special Issue: Sp. Iss. SI Pages: 220-229 Published: AUG 30 2000

13. Der A, Keszthelyi L. - *BIOCHEMISTRY-MOSCOW* 66 (11): 1234-1248 NOV 2001
14. Vanhanen J. et al. - *OPT REV* 8 (5): 368-372 SEP-OCT 2001
15. Groma GI et al. - *BIOPHYS J* 81 (6): 3432-3441 DEC 2001
16. Jussila T, Li ML, Tkachenko NV, et al. - *BIO BIOSENS BIOELECTRON* 17 (6-7): 509-515 JUN 2002
17. Lukacs A, Papp E, *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY* 77 (1-3): 1-16 DEC 2 2004
18. Korchemskaya E, Burykin N, Bugaychuk S, et al. *PHOTOCHEMISTRY AND PHOTOBIOLOGY* 83 (2): 403-408 MAR-APR 2007
19. Nishikawa T, Murakami M, Kouyama T *JOURNAL OF MOLECULAR BIOLOGY* 352 (2): 319-328 SEP 16 2005
20. Inoue Keiichi; Reissig Louisa; Sakai Makoto; et al, *JOURNAL OF PHYSICAL CHEMISTRY B* Volume: 116 Issue: 20 Pages: 5888-5899 DOI: 10.1021/jp302357m Published: MAY 24 2012
21. Simon-Vazquez, Rosana; Dominguez, Marta; Lorenz-Fonfria, Victor A.; et al. *PLOS ONE* Volume: 7 Issue: 8 Article Number: e42447 DOI: 10.1371/journal.pone.0042447, AUG 3 2012
22. Yamashita, Hayato; Inoue, Keiichi; Shibata, Mikihiro; et al. Role of trimer-trimer interaction of bacteriorhodopsin studied by optical spectroscopy and high-speed atomic force microscopy *JOURNAL OF STRUCTURAL BIOLOGY* Volume: 184 Issue: 1 Pages: 2-11 DOI: 10.1016/j.jsb.2013.02.011 Published: OCT 2013
23. Tibor Szabo et al., Photosynthetic reaction centers/ITO hybrid nanostructure, *Materials Science and Engineering C* 33(2):769-773 · March 2013
24. Victor A Lorenz-Fonfria, Joachim Heberle, Channelrhodopsin unchained: Structure and mechanism of a light-gated cation channel, *Biochimica et Biophysica Acta* 11/2013
25. Lorenz-Fonfria, Victor A.; Heberle, Joachim *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*, Volume: 1837 Issue: 5 Special Issue: SI Pages: 626-642 Published: MAY 2014
26. Johnson, Philip J. M.; Halpin, Alexei; Morizumi, Takefumi; et al., The photocycle and ultrafast vibrational dynamics of bacteriorhodopsin in lipid nanodiscs. *PHYSICAL CHEMISTRY CHEMICAL PHYSICS* Volume: 16 Issue: 39 Pages: 21310-21320 Published: OCT 21 2014
27. Lorenz-Fonfria, Victor A.; Schultz, Bernd-Joachim; Resler, Tom; et al., *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* Volume: 137 Issue: 5 Pages: 1850-1861 Published: FEB 11 2015
28. Thomas Köhler, Ingrid Weber, Clemens Glaubitz, Josef Wachtveitl, Proteorhodopsin Photocycle Kinetics Between pH 5 and pH 9, *Photochemistry and Photobiology* 93(3):762-771 · June 2017, DOI: 10.1111/php.12753

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. Batori-Tartsi Z, Ludmann K *BIOELECTRONIC APPLICATIONS OF PHOTOCROMIC PIGMENTS* Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 137-148 Published: 2001
17. Varo G *BIOELECTRONIC APPLICATIONS OF PHOTOCROMIC PIGMENTS* Book Series: NATO SCIENCE SERIES, SUB-SERIES I: LIFE AND BEHAVIOURAL SCIENCES Volume: 335 Pages: 149-162 Published: 2001
18. Bhattacharya P, Xu JA et al. - *OPT LETT* 27 (10): 839-841 MAY 15 2002
19. Xu J, Stickrath AB, Bhattacharya P, et al. *BIOPHYSICAL JOURNAL* Volume: 85 Issue: 2 Pages: 1128-1134 Published: AUG 2003
20. Varo G, Brown LS, Lakatos M, et al. *BIOPHYSICAL JOURNAL* Volume: 84 Issue: 2 Pages: 1202-1207 Part: Part 1 Published: FEB 2003

21. Lakatos M, Lanyi JK, Szakacs J, et al. BIOPHYSICAL JOURNAL Volume: 84 Issue: 5 Pages: 3252-3256 Published: MAY 2003
22. Zimanyi L, JOURNAL OF PHYSICAL CHEMISTRY B 108 (13): 4199-4209 APR 1 2004
23. Lukacs A, Papp E, JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 77 (1-3): 1-16 DEC 2 2004
24. Xu J, Bhattacharya P, Varo G BIOSENSORS & BIOELECTRONICS Volume: 19 Issue: 8 Pages: 885-892 Published: MAR 15 2004
25. Zimanyi L, JOURNAL OF PHYSICAL CHEMISTRY B 108 (13): 4199-4209 APR 1 2004
26. Tsunoda SP, Ewers D, Gazzarrini S, et al. BIOPHYSICAL JOURNAL 91 (4): 1471-1479 AUG 15 2006
27. Zimanyi L, Saltiel J, Brown LS, et al., JOURNAL OF PHYSICAL CHEMISTRY A 110 (7): 2318-2321 FEB 23 2006
28. Magyari K, Simon V, Fan Y, et al. Source: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 2 Issue: 3 Pages: 265-269, SEP 2007
29. Griep MH, Walczak KA, Winder EM, et al., Quantum dot enhancement of bacteriorhodopsin-based electrodes, BIOSENSORS & BIOELECTRONICS ,Volume: 25 Issue: 6 Pages: 1493-1497 FEB 15 2010
30. Baharak Mahyad, Saijad Janfaza, Elaheh sadat Hosseini, Bio-nano hybrid materials based on bacteriorhodopsin: Potential applications and future st., Advances in Colloid and Interface Science 09/2015; 225. DOI:10.1016/j.cis.2015.09.006

Ganea C., Vasilescu V., The Isotope Effect of D2O on the Fire-Fly Bioluminescence Spectra, **Chapter** ,DOI:10.1007/978-1-4899-0424-9_65, In book: Water and Ions in Biological Systems, pp.671-676 January 1985

1. Michael C. Pirrung, Allyson Dorsey, Natalie De Howitt, Jiayu Liao, β -Deuterium Isotope Effects on Firefly Luciferase Bioluminescence, ChemistryOpen, DOI: 10.1002/open.201700136, License: CC BY-NC-ND 4.0, Sep 2017

V. Vasilescu, E. Katona, A. Popescu, C. Zăciu, **C. Ganea**, SOME PROBLEMS CONCERNING THE ROLE OF WATER AND PROTONS IN THE FUNCTION OF BIOLOGICAL MEMBRANES, In book: MEMBRANE PROCESSES, pp.92-107, DOI:10.1007/978-1-4613-8274-4_5, January 1984

1. Nikolay Bunkin, G A Lyakhov, Valeriy A. Kozlov, ..., Sergey V Gudkov, Time Dependence of the Luminescence from a Polymer Membrane Swollen in Water: Concentration and Isotopic Effects, Physics of Wave Phenomena 25(4):259-271, DOI 10.3103/S1541308X17040045, Dec. 2017

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

1. 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,
2. Vasilescu, V., Dinu, A., Aricescu, I., Chirieri-Kovács, E., On the electrical conductivity of rhodopsin solutions, BBA - Bioenergetics, 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.

