ANEXA 1

FIŞĂ DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂŢII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
I. ACTIVITATEA DE CERCETARE (70%)	**1. Articole ştiinţifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact**	**(60 puncte x factor de impact + 25) / număr autori**
	1. **Aurelia Apetrei**, Andrei Ciucă, Jong-kook Lee, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, *A Protein Nanopore-Based Approach for Bacteria Sensing*, **2016**, **Nanoscale Research Letters** 11:501	**(60 x 2,584 + 25)/6 = 30,006**
	2. **Aurelia Apetrei**, Lucel Sîrghi, *Stochastic Adhesion of Hydroxylated Atomic Force Microscopy Tips to Supported Lipid Bilayers*, **2013**, **Langmuir** 29(52), 16098-16104	**(60x 4,384 + 25)/2 = 144,020**
	3. Yeranddy Alpizar, Maarten Gees, Alicia Sanchez, **Aurelia Apetrei**, Thomas Voets, Bernd Nilius, Karel Talavera, *Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1*, **2013**, **Pflugers Archiv-European Journal Of Physiology** 465(6), 853-864	**(60 x 3,073 + 25)/7 = 29,911**
	4. Irina Şchiopu, Loredana Mereuţă, **Aurelia Apetrei**, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, *The role of tryptophan spatial arrangement for antimicrobial-derived, membrane-active peptides adsorption and activity*, **2012**, **Molecular BioSystems** 8(11), 2860-2863	**(60 x 3,350 + 25)/6 = 37,666**
	5. Alina Asandei, **Aurelia Apetrei**, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, *Investigation of Single-Molecule Kinetics Mediated by Weak Hydrogen Bonds within a Biological Nanopore*, **2011**, **Langmuir** 27(1), 19-24	**(60 x 4,186 + 25)/5 = 55,232**
	6. Alina Asandei, **Aurelia Apetrei**, Tudor Luchian, *Uni-molecular detection and quantification of selected beta-lactam antibiotics with a hybrid alpha-hemolysin protein pore*, **2011**, **Journal of Molecular Recognition** 24(2), 199-207	**(60 x 3,310 + 25)/3 = 74,533**

I. ACTIVITATEA DE CERCETARE (70%)	**7.** W. Everaerts, M. Gees, Y. Alpizar, R. Farre, C. Lenten, **Aurelia Apetrei**, I. Dewachter, F. van Leuven, R. Vennekens, D. De Ridder, B. Nilius, T. Voets, K. Talavera, *The capsaicin receptor TRPV1 is a crucial mediator of the noxious effects of mustard oil*, **2011**, **Current Biology** 21(4), 316-321 **8.** **Aurelia Apetrei**, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, Mathias Winterhalter, Tudor Luchian, *Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the HP(2–20) antimicrobial peptide*, **2010**, **Journal of Bioenergetics and Biomembranes** 42(2), 172-180 **9.** **Aurelia Apetrei**, Loredana Mereuţă, Tudor Luchian, *The RH 421 styryl dye induced, pore model-dependent modulation of antimicrobial peptides activity in reconstituted planar membranes*, **2009**, **Biochimica et Biophysica Acta – General Subjects** 1790(8), 809-816	**(60 x 9,647+25)/13 = 46,447** **(60 x 3,637+ 25)/6 = 40,536** **(60 x 2,958 + 25)/3 = 67,493**
	Factorul de impact al revistei a fost completat cu valoarea corespunzătoare anului publicării articolului, respectiv celui mai apropiat an în situaţia absenţei valorii pentru anul în cauză (conform Thomson Reuters-Journal Citation Reports)	**Scor individual 1** **525,844**
	2. Articole ştiinţifice publicate *in extenso* în reviste indexate fără factor de impact	**Scor individual 2** **0**
	3. Articole ştiinţifice publicate *in extenso* în reviste indexate BDI	**Scor individual 3** **0**
	4. Articole ştiinţifice publicate *in extenso* în volumele conferinţelor	**alte categorii: 5 puncte / număr autori**
	1. Irina Şchiopu, **Aurelia Apetrei,** Tudor Luchian, *Kinetics of pore formation by selected antimicrobial peptides monitored through a calcein release assay*, **Revista Ştiinţifică V. Adamachi**, **2011**. **2.** Irina Şchiopu, **Aurelia Apetrei**, Tudor Luchian, *Fluorescence and electrophysiology investigation of cholesterol effect on the adsorption and activity of selected antimicrobial peptides*, **Revista Ştiinţifică V. Adamachi**, **2010**.	**5 / 3 = 1,666** **5 / 3 = 1,666**
		Scor individual 4 **3,332**

I. ACTIVITATEA DE CERCETARE (70%)	**5. Cărţi ştiinţifice publicate (doar prima ediţie)**	**Scor individual 5** **0**
	6. Cărţi ştiinţifice traduse şi publicate în edituri din străinătate	**Scor individual 6** **0**
	7. Coordonarea şi editarea de volume traduceri şi antologii	**Scor individual 7** **0**
	8. Articole publicate în dicţionare şi enciclopedii	**Scor individual 8** **0**
	9. Contracte de cercetare ştiinţifică în instituţii academice (universităţi, institute ale Academiei Române, institute naţionale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	
	1. **Cercetător ştiinţific III** în proiectul de cercetare **nr. 830/21.01.2015 (România-Coreea)**: *„Design and Development of Therapeutic AMPs against Epidemic Superbugs”* **(272.858 USD ≈ 257.334 EUR)**. (1 USD = 0.943107 EUR la 06.01.2016)	**contracte internaţionale – membru: 100 puncte pentru fiecare 100.000 euro / numărul membrilor echipei de cercetare** **100 x (257.334/100.000)/8 = 32,166**
	1. **Director de proiect** al proiectului de cercetare **nr. 64/2015, PN-II-RU-TE-2014-4-2388**: *„Metodă bazată pe nanopori de detecţie şi cuantificare a bacteriilor prin interacţiunea selectivă a peptidelor antimicrobiene cu membrane bacteriene”* **(550.000 lei)**.	**contracte naţionale – director: 50 puncte pentru fiecare 500.000 lei** **50 x (550.000/500.000) = 55,000**
	1. **Cercetător ştiinţific** în proiectul de cercetare **nr.123/2012, PN-II-PT-PCCA-2011-3.1-0595**: *„Rational design and generation of synthetic, short antimicrobial peptides”* **(700.000 lei)**.	**contracte naţionale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare** **50 x (700.000/500.000)/6 = 11,666**

I. ACTIVITATEA DE CERCETARE (70%)	2. **Cercetător ştiinţific** în proiectul de cercetare **PN-II-ID-PCCE-2011-2-0027/01.06.2012**: *„Ion sensing and separation through modified cyclic peptides, cyclodextrines and protein pores”* **(1.200.000 lei)**. 3. **Cercetător ştiinţific** în proiectul de cercetare **PN-II-ID-PCE-2011-3-0270 nr. 267 /05.10.2011**: *„Funcţionalizarea cu plasmă a sondelor nanoscopice”* **(1.499.187 lei)** 4. **Asistent de cercetare** în proiectul de cercetare **PEPCITOTUM, nr: 62061/2008**: *„Elucidarea mecanismelor de interacţiune a unor peptide citotoxice selectate cu celule tumorale, şi optimizarea proprietăţilor lor anti-tumorale”* **(372.376 lei)**.	**50 x (1.200.000/500.000)/6 = 20,000** **50 x (1.499.187/500.000)/7 = 21,416** **50 x (372.376 / 500.000)/9 = 4,137**
		Scor individual 9 **144,385**
	10. Contracte de cercetare în mediul de afaceri şi sectorul public	**Scor individual 10** **0**
	11. Brevete	**Scor individual 11** **0**
	12. Citări şi recenzii ale lucrărilor ştiinţifice	**Reviste de specialitate din străinătate: (10+ 20x factor de impact) / număr autori, pentru fiecare citare**
	* **Aurelia Apetrei**, Lucel Sîrghi, *Stochastic Adhesion of Hydroxylated Atomic Force Microscopy Tips to Supported Lipid Bilayers*, 2013, Langmuir 29(52), 16098-16104, **citat în:** 1. C.D. Ma et al., *Interaction of the Hydrophobic Tip of an Atomic Force Microscope with Oligopeptides Immobilized Using Short and Long Tethers*, **2016**, **Langmuir** 32(12), 2985-2995 * Yeranddy Alpizar, Maarten Gees, Alicia Sanchez, **Aurelia Apetrei**, Thomas Voets, Bernd Nilius, Karel Talavera, *Bimodal effects of cinnamaldehyde and camphor on mouse TRPA1*, 2013, Pflugers Archiv-European Journal Of Physiology 465(6), 853-864, **citat în:**	**(10 + 20 x 3,993)/2 = 44,930**

I. ACTIVITATEA DE CERCETARE (70%)	1. E.A. Hoeck et al., *Preclinical and human surrogate models of itch*, **2016**, **Experimental Dermatology** 25(10), 750-757	**(10 + 20 x 2,675)/7 = 9,071**
	2. A. Jawale et al., *Reversal of diabetes-induced behavioral and neurochemical deficits by cinnamaldehyde*, **2016**, **Phytomedicine** 23(9), 923-930	**(10 + 20 x 2,937)/7 = 9,820**
	3. T.K. Jensen et al., *Reversal of diabetes-induced behavioral and neurochemical deficits by cinnamaldehyde*, **2016**, **European Journal Of Oral Sciences** 124(4), 349-357	**(10 + 20 x 1,607)/7 = 6,020**
	4. J. Rosendahl et al., *Evidence for the functional involvement of members of the TRP channel family in the uptake of Na+ and NH4 (+) by the ruminal epithelium*, **2016**, **Pflugers Archiv-European Journal Of Physiology** 468(8), 1333-1352	**(10 + 20 x 3,654)/7 = 11,869**
	5. G.D. Anaya-Eugenio et al., *Antinociceptive activity of the essential oil from Artemisia ludoviciana*, **2016**, **Journal Of Ethnopharmacology** 179, 403-411	**(10 + 20 x 3,055)/7 = 10,157**
	6. G. Peng et al., *Plant-Derived Tick Repellents Activate the Honey Bee Ectoparasitic Mite TRPA1*, **2015**, **Cell Reports** 12(2), 190-202	**(10 + 20 x 7,870)/7 = 23,914**
	7. D. Preti et al., *Transient receptor potential ankyrin 1 (TRPA1) antagonists*, **2015**, **Pharmaceutical Patent Analyst** 4(2), 75-94	**(10 + 20 x 0,000)/7 = 1,429**
	8. J. Alvarez-Collazo et al., *Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells*, **2014**, **Pflugers Archiv-European Journal Of Physiology** 466(11), 2089-2099	**(10 + 20 x 4,101)/7 = 13,146**
	9. B. Nilius and A. Szallasi, *Transient Receptor Potential Channels as Drug Targets: From the Science of Basic Research to the Art of Medicine*, **2014**, **Pharmacological Reviews** 66(3), 676-814	**(10 + 20x 17,099)/7 = 50,283**
	10. J.J. DeBerry et al., *TRPA1 mediates bladder hyperalgesia in a mouse model of cystitis*, **2014**, **PAIN** 155(7), 1280-1287	**(10 + 20 x 5,213)/7 = 16,323**
	11. X. Wan et al., *Bimodal voltage dependence of TRPA1: mutations of a key pore helix residue reveal strong intrinsic voltage-dependent inactivation*, **2014**, **Pflugers Archiv-European Journal Of Physiology** 466(7), 1273-1287	**(10 + 20 x 4,101)/7 = 13,146**

I. ACTIVITATEA DE CERCETARE (70%)	12. L. Van Gerven et al., *Capsaicin treatment reduces nasal hyperreactivity and transient receptor potential cation channel subfamily V, receptor 1 (TRPV1) overexpression in patients with idiopathic rhinitis*, **2014**, **Journal Of Allergy And Clinical Immunology** 133(5), 1332-U544	**(10 + 20x 11,476)/7 = 34,217**
	13. W.J. Redmond et al., *Ligand determinants of fatty acid activation of the pronociceptive ion channel TRPA1*, **2014**, **PeerJ** 2: e248	**(10 + 20 x 2,183)/7 = 7,666**
	14. P.M. Zygmunt et al., *TRPA1* in Mammalian Transient Receptor Potential (Trp) Cation Channels, Vol I, **2014**, Book Series: **Handbook of Experimental Pharmacology**, Volume 222, 583-630	**(10 + 20 x 0,000)/7 = 1,429**
	15. M. Takaishi et al., *Inhibitory effects of monoterpenes on human TRPA1 and the structural basis of their activity*, **2014**, **Journal Of Physiological Sciences** 64(1), 47-57	**(10 + 20 x 1,899)/7 = 6,854**
	16. Y.A. Alpizar et al., *Lack of correlation between the amplitudes of TRP channel-mediated responses to weak and strong stimuli in intracellular Ca2+ imaging experiments*, **2013**, **Cell Calcium** 54(5), 362-374	**(10 + 20 x 4,210)/7 = 13,457**
	* Irina Şchiopu, Loredana Mereuţă, **Aurelia Apetrei**, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, *The role of tryptophan spatial arrangement for antimicrobial-derived, membrane-active peptides adsorption and activity*, 2012, Molecular BioSystems 8(11), 2860-2863, **citat în:**	
	1. S. Ma et al., *Isolation of a novel bio-peptide from walnut residual protein inducing apoptosis and autophagy on cancer cells*, **2015**, **BMC Complementary And Alternative Medicine** 15: 413	**(10 + 20 x 1,987)/6 = 8,290**
	2. D. Koller and K. Lohner, *The role of spontaneous lipid curvature in the interaction of interfacially active peptides with membranes*, **2014**, **BBA-Biomembranes** 1838(9), Special Issue, 2250-2259	**(10 + 20 x 3,836)/6 = 14,453**
	3. G. Li et al., *Tryptophan as a Probe to Study the Anticancer Mechanism of Action and Specificity of alpha-Helical Anticancer Peptides*, **2014**, **Molecules** 19(8), 12224-12241	**(10 + 20 x 2,416)/6 = 9,720**

	4. L. Mereuta et al., *Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide*, **2012**, **Langmuir** 28(49), 17079-17091	**(10 + 20 x 4,187)/6 = 15,623**
	* A. Asandei, **Aurelia Apetrei**, Y. Park, K.-S. Hahm, T. Luchian, *Investigation of Single-Molecule Kinetics Mediated by Weak Hydrogen Bonds within a Biological Nanopore*, 2011, Langmuir 27(1), 19-24, **citat în:**	
	1. A. Asandei et al., *Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation*, **2016**, **ACS Applied Materials & Interfaces** 8(20), 13166-13179	**(10+ 20x 7,145)/5 = 30,580**
I. ACTIVITATEA DE CERCETARE (70%)	2. A. Asandei et al., *Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores*, **2015**, **ACS Applied Materials & Interfaces** 7(30), 16706-16714	**(10+ 20x 7,145)/5 = 30,580**
	3. I. Schiopu et al., *Nanopore Investigation of the Stereoselective Interactions between Cu2+ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue*, **2015**, **Langmuir** 31(1), 387-396	**(10+ 20x3,993)/5 = 17,972**
	4. Z. Cournia et al., *Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory*, **2015**, **Journal Of Membrane Biology** 248(4), 611-640	**(10+ 20x 1,991)/5 = 9,964**
	5. A. Asandei et al., *Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage-controlled braking of polymer transport through nanometer-scale pores*, **2015**, **Scientific Reports** 5: 10419	**(10+ 20x 5,228)/5 = 22,912**
	6. L. Mereuta et al., *Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, beta-Hairpin -like Peptides through Single-Molecule Probing with Protein Nanopores*, **2014**, **ACS Applied Materials & Interfaces** 6(15), 13242-13256	**(10+ 20x 6,723)/5 = 28,892**

	7. A. Asandei et al., *Probing of Various Physiologically Relevant Metals: Amyloid-beta Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore*, **2014**, **Journal Of Membrane Biology** 247(6), 523-530	**(10+ 20x 2,457)/5 = 11,828**
	8. L. Mereuta et al., *Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation*, **2014**, **Scientific Reports** 4: 3885	**(10+ 20x 5,578)/5 = 24,312**
	9. A. Asandei et al., *Investigation of Cu2+ Binding to Human and Rat Amyloid Fragments A beta (1-16) with a Protein Nanopore*, **2013**, **Langmuir** 29(50), 15634-15642	**(10+ 20x 4,384)/5 = 19,536**
	10. E. Campos et al., *Sensing Single Mixed-Monolayer Protected Gold Nanoparticles by the alpha-Hemolysin Nanopore*, **2013**, **Analytical Chemistry** 85(21), 10149-10158	**(10+ 20x 5,825)/5 = 25,300**
	11. L. Mereuta et al., *Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide*, **2012**, **Langmuir** 28(49), 17079-17091	**(10+ 20x 4,187)/5 = 18,748**
	12. E. Campos et al., *The Role of Lys147 in the Interaction between MPSA-Gold Nanoparticles and the alpha-Hemolysin Nanopore*, **2012**, **Langmuir** 28(44) 15643-15650	**(10+ 20x 4,187)/5 = 18,748**
	13. A. Asandei et al., *The Kinetics of Ampicillin Complexation by gamma-Cyclodextrins. A Single Molecule Approach*, **2011**, **Journal Of Physical Chemistry B** 115(33), 10173-10181	**(10+ 20x 3,696)/5 = 16,784**
	14. Y.L. Ying et al., *Enhanced translocation of poly(dt)$_{45}$ through an α-hemolysin nanopore by binding with antibody*, **2011**, **Chemical Communications** 47, 5690-5692	**(10+ 20x 6,169)/5 = 26,676**
	15. Ostroumova Olga S. et al., *5-and 4 '-Hydroxylated flavonoids affect voltage gating of single alpha-hemolysin pore*, **2011**, **BBA – Biomembranes** 1808(8), 2051-2058	**(10+ 20x 3,990)/5 = 17,960**
	* A. Asandei, **Aurelia Apetrei**, T. Luchian, *Uni-molecular detection and quantification of selected beta-lactam antibiotics with a hybrid alpha-hemolysin protein pore*, 2011, Journal of	

	Molecular Recognition 24(2), 199-207, **citat în:**	
	1. E.J. Campos et al., *Stochastic Detection of MPSA-Gold Nanoparticles Using a alpha-Hemolysin Nanopore Equipped with a Noncovalent Molecular Adaptor*, **2016**, **Analytical Chemistry** 88(12), 6214-6222	**(10+ 20x 5,886)/3 = 42,573**
	2. A. Asandei et al., *Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation*, **2016**, **ACS Applied Materials & Interfaces** 8(20), 13166-13179	**(10+ 20x 7,145)/3 = 50,967**
	3. A. Asandei et al., *Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores*, **2015**, **ACS Applied Materials & Interfaces** 7(30), 16706-16714	**(10+ 20x 7,145)/3 = 50,967**
	4. I. Schiopu et al., *Nanopore Investigation of the Stereoselective Interactions between Cu2+ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue*, **2015**, **Langmuir** 31(1), 387-396	**(10+ 20 x 3,993)/3 = 29,953**
	5. A. Asandei et al., *Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage-controlled braking of polymer transport through nanometer-scale pores*, **2015**, **Scientific Reports** 5: 10419	**(10+ 20x 5,228)/3 = 38,187**
	6. L. Mereuta et al., *Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, beta-Hairpin -like Peptides through Single-Molecule Probing with Protein Nanopores*, **2014**, **ACS Applied Materials & Interfaces** 6(15), 13242-13256	**(10+ 20x 6,723)/3 = 48,153**
	7. P.A. Gurnev et al, *Channel-Forming Bacterial Toxins in Biosensing and Macromolecule Delivery*, **2014**, **Toxins** 6(8), 2483-2540	**(10+ 20x 2,938)/3 = 22,920**
	8. A. Asandei et al., *Investigation of Cu2+ Binding to Human and Rat Amyloid Fragments A beta (1-16) with a Protein Nanopore*, **2013**, **Langmuir** 29(50), 15634-15642	**(10+ 20 x 4,384)/3 = 32,560**
	9. L. Mereuta et al., *Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide*, **2012**, **Langmuir** 28(49), 17079-17091	**(10+ 20 x 4,187)/3 = 31,247**

	10. E. Campos et al., *The Role of Lys147 in the Interaction between MPSA-Gold Nanoparticles and the alpha-Hemolysin Nanopore*, **2012**, **Langmuir** 28(44) 15643-15650	**(10+ 20 x 4,187)/3 = 31,247**
	11. C. Batchelor-McAuley et al., *New Electrochemical Methods*, **2012**, **Analytical Chemistry** 84(2), 669-684	**(10+ 20x 5,695)/3 = 41,300**
	12. A. Asandei et al., *The Kinetics of Ampicillin Complexation by gamma-Cyclodextrins. A Single Molecule Approach*, **2011**, **Journal Of Physical Chemistry B** 115(33), 10173-10181	**(10+ 20x 3,696)/3 = 27,973**
	13. Y. Keitaro et al., *Crystal structure of the octameric pore of staphylococcal gamma-hemolysin reveals the beta-barrel pore formation mechanism by two components*, **2011**, **PNAS USA** 108(42), 17314-17319	**(10+ 20x 9,681)/3 = 67,873**
	* W. Everaerts, M. Gees, Y. Alpizar, R. Farre, C. Lenten, **Aurelia Apetrei**, I. Dewachter, F. van Leuven, R. Vennekens, D. De Ridder, B. Nilius, T. Voets, K. Talavera, *The capsaicin receptor TRPV1 is a crucial mediator of the noxious effects of mustard oil*, 2011, Current Biology 21(4), 316-321, **citat în:**	
	1. S. Shang et al., *Intracellular TRPA1 mediates Ca2+ release from lysosomes in dorsal root ganglion neurons*, **2016**, **Journal Of Cell Biology** 215(3), 369-381	**(10+ 20x 8,717)/13 = 14,180**
	2. D. Su et al., *TRPA1 and TRPV1 contribute to iodine antiseptics- associated pain and allergy*, **2016**, **EMBO Reports** 17(10), 1422-1430	**(10+ 20x 7,739)/13 = 12,675**
	3. A. Janssens et al., *Definition of two agonist types at the mammalian cold- activated channel TRPM8*, **2016**, **eLife** 5: e17240	**(10+ 20x 8,303)/13 = 13,543**
	4. R. Vianello et al., *The Use of Multiscale Molecular Simulations in Understanding a Relationship between the Structure and Function of Biological Systems of the Brain: The Application to Monoamine Oxidase Enzymes*, **2016**, **Frontiers In Neuroscience** 10: 327	**(10+ 20x 3,398)/13 = 5,997**
	5. V. Tekus et al., *Noxious heat threshold temperature and pronociceptive effects of allyl isothiocyanate*	**(10+ 20x 2,685)/13 = 4,900**

	(mustard oil) in TRPV1 or TRPA1 gene-deleted mice, **2016**, **Life Sciences** 154, 66-74	
	6. J. Takaya and M. Uesugi, *Chemical Biological Analysis of TRPA1 Activation Mechanism*, **2016**, **Journal Of Synthetic Organic Chemistry Japan** 74(5), 505-511	**(10+ 20x 0,537)/13 = 1,595**
	7. X. Li, J.A. Coffield, *Structural and Functional Interactions between Transient Receptor Potential Vanilloid Subfamily 1 and Botulinum Neurotoxin Serotype A*, **2016**, **PLOS ONE** 11(1): e0143024	**(10+ 20x 3,057)/13 = 5,472**
	8. R. Samivel et al., *The role of TRPV1 in the CD4(+) T cell-mediated inflammatory response of allergic rhinitis*, **2016**, **Oncotarget** 7(1), 148-160	**(10+ 20x 5,008)/13 = 8,474**
	9. J. Donnerer and I. Liebmann, *ERK1/2 Phosphorylation in the Rat Supraoptic Nucleus, Dorsal Raphe Nucleus, and Locus Coeruleus Neurons Following Noxious Stimulation to the Hind Paw*, **2016**, **Pharmacology** 97(1-2), 57-62	**(10+ 20x 1,533)/13 = 3,128**
	10. M.M. Muley et al, *Preclinical Assessment of Inflammatory Pain*, **2016**, **CNS Neuroscience & Therapeutics** 22(2) Special Issue, 88-101	**(10+ 20x 4,019)/13 = 6,952**
	11. X. Zhang et al., *Extracranial injections of botulinum neurotoxin type A inhibit intracranial meningeal nociceptors' responses to stimulation of TRPV1 and TRPA1 channels: Are we getting closer to solving this puzzle?*, **2016**, **Cephalalgia** 36(9), 875-886	**(10+ 20x 6,052)/13 = 10,080**
	12. A. Soldano et al., *Gustatory-mediated avoidance of bacterial lipopolysaccharides via TRPA1 activation in Drosophila*, **2016**, **eLife** 5: e13133	**(10+ 20x 8,303)/13 = 13,543**
	13. Y.J. Choi et al., *Upregulation of Vanilloid Receptor-1 in Functional Dyspepsia With or Without Helicobacter pylori Infection*, **2016**, **Medicine** 95(19): e3410	**(10+ 20x 2,133)/13 = 4,051**
	14. T. Shibata et al., *Identification of a prostaglandin D-2 metabolite as a neuritogenesis enhancer targeting the TRPV1 ion channel*, **2016**, **Scientific Reports** 6: 21261	**(10+ 20x 5,228)/13 = 8,812**
	15. Y.-J. Lin et al., *A synergistic effect of simultaneous TRPA1 and TRPV1 activations on vagal pulmonary C-fiber afferents*, **2015**, **Journal Of Applied Physiology** 118(3), 273-281	**(10+ 20x 3,004)/13 = 5,391**

	16. C. Liu and C. Montell, *Forcing open TRP channels: Mechanical gating as a unifying activation mechanism*, **2015**, **Biochemical And Biophysical Research Communications** 460(1), 22-25	**(10+ 20x 2,371)/13 = 4,417**
	17. E.C. Emery et al., *Stimulation of GLP-1 Secretion Downstream of the Ligand-Gated Ion Channel TRPA1*, **2015**, **Diabetes** 64(4), 1202-1210	**(10+ 20x 8,784)/13 = 14,283**
	18. S. Luvisetto et al., *Analgesic effects of botulinum neurotoxin type A in a model of allyl isothiocyanate- and capsaicin-induced pain in mice*, **2015**, **Toxicon** 94, 23-28	**(10+ 20x 2,309)/13 = 4,322**
	19. N.K. Byrnes et al., *Perceptual Mapping of Chemesthetic Stimuli in Naive Assessors*, **2015**, **Chemosensory Perception** 8(1), 19-32	**(10+ 20x 1,053)/13 = 2,389**
	20. J. Donnerer and I. Liebmann, *pERK1/2 immunofluorescence in rat dorsal horn and paraventricular nucleus neurons as a marker for sensitization and inhibition in the pain pathway*, **2015**, **Tissue & Cell** 47(1), 55-60	**(10+ 20x 1,258)/13 = 2,705**
	21. J. Takaya et al., *A Potent and Site-Selective Agonist of TRPA1*, **2015**, **Journal Of The American Chemical Society** 137(50), 15859-15864	**(10+ 20x13,038)/13 = 20,828**
	22. L.-Y. Lee et al., *Interaction between TRPA1 and TRPV1: Synergy on pulmonary sensory nerves*, **2015**, **Pulmonary Pharmacology & Therapeutics** 35, 87-93	**(10+ 20x 2,930)/13 = 5,277**
	23. Y. Terada et al., *Structure-Activity Relationship Study on Isothiocyanates: Comparison of TRPA1-Activating Ability between Allyl Isothiocyanate and Specific Flavor Components of Wasabi, Horseradish, and White Mustard*, **2015**, **Journal Of Natural Products** 78(8), 1937-1941	**(10+ 20x 3,662)/13 = 6,403**
	24. L.D. Islas et al., *A simple method for fast temperature changes and its application to thermal activation of TRPV1 ion channels*, **2015**, **Journal Of Neuroscience Methods** 243, 120-125	**(10+ 20x 2,053)/13 = 3,928**
	25. T. Summers et al., *Physiological, pharmacological and behavioral evidence for a TRPA1 channel that can elicit defensive responses in the medicinal leech*, **2015**, **Journal Of Experimental Biology** 218(19), 3023-3031	**(10+ 20x 2,914)/13 = 5,252**

	26. F. Ren et al., *Blockade of transient receptor potential cation channel subfamily V member 1 promotes regeneration after sciatic nerve injury*, **2015**, **Neural Regeneration Research** 10(8), 1324-1331	**(10+ 20x 0,968)/13 = 2,258**
	27. P. Jain et al., *Behavioral and molecular processing of visceral pain in the brain of mice: impact of colitis and psychological stress*, **2015**, **Behavioral Neuroscience** 9: 177	**(10+ 20x 2,690)/13 = 4,908**
	28. D. Kozai et al., *Deciphering Subtype-Selective Modulations in TRPA1 Biosensor Channels*, **2015**, **Current Neuropharmacology** 13(2), 266-278	**(10+ 20x 3,753)/13 = 6,543**
	29. S. Bais et al., *Evidence for Novel Pharmacological Sensitivities of Transient Receptor Potential (TRP) Channels in Schistosoma mansoni*, **2015**, **PLOS Neglected Tropical Diseases** 9(12): e0004295	**(10+ 20x 3,948)/13 = 6,843**
	30. J. Xing et al., *TRPA1 mediates amplified sympathetic responsiveness to activation of metabolically sensitive muscle afferents in rats with femoral artery occlusion*, **2015**, **Frontiers In Physiology** 6: 249	**(10+ 20x 4,031)/13 = 6,971**
	31. M. Eberhardt et al., *H2S and NO cooperatively regulate vascular tone by activating a neuroendocrine HNO-TRPA1-CGRP signalling pathway*, **2014**, **Nature Communications** 5: 4381	**(10+ 20x11,470)/13 = 18,415**
	32. B. Nilius and A. Szallasi, *Transient Receptor Potential Channels as Drug Targets: From the Science of Basic Research to the Art of Medicine*, **2014**, **Pharmacological Reviews** 66(3), 676-814	**(10+ 20x17,099)/13 = 27,075**
	33. J. Vriens et al., *Peripheral thermosensation in mammals*, **2014**, **Nature Reviews Neuroscience** 15(9), 573-589	**(10+ 20x31,427)/13 = 49,118**
	34. J. Franken et al., *TRP channels in lower urinary tract dysfunction*, **2014**, **British Journal Of Pharmacology** 171(10) Special Issue, 2537-2551	**(10+ 20x 4,842)/13 = 8,218**
	35. V. Spahn et al., *Modulation of Transient Receptor Vanilloid 1 Activity by Transient Receptor Potential Ankyrin 1*, **2014**, **Molecular Pharmacology** 85(2), 335-344	**(10+ 20x 4,128)/13 = 7,120**
	36. R.W. Teichert et al., *Using constellation pharmacology to define comprehensively a somatosensory neuronal subclass*, **2014**, **PNAS**	**(10+ 20x 9,674)/13 = 15,652**

	USA 111(6), 2319-2324	
	37. B.I. Toth et al., *TRP channels in the skin*, **2014**, **British Journal Of Pharmacology** 171(10) Special Issue, 2568-2581	**(10+ 20x 4,842)/13 = 8,218**
	38. I. Nagy et al., *Pharmacology of the Capsaicin Receptor, Transient Receptor Potential Vanilloid Type-1 Ion Channel*, **2014**, in Capsaicin As A Therapeutic Molecule, Book Series: **Progress in Drug Research** 68, 39-76	**(10+ 20x 0,000)/13 = 0,769**
	39. Y.A. Alpizar et al., *Allyl isothiocyanate sensitizes TRPV1 to heat stimulation*, **2014**, **Pflugers Archiv-European Journal Of Physiology** 466(3), 507-515	**(10+ 20x 4,101)/13 = 7,078**
	40. P.P. Basu et al., *Review article: the endocannabinoid system in liver disease, a potential therapeutic target*, **2014**, **Alimentary Pharmacology & Therapeutics** 39(8), 790-801	**(10+ 20x 5,727)/13 = 9,580**
	41. A. Jurik et al., *Supraspinal TRPV1 modulates the emotional expression of abdominal pain*, **2014**, **PAIN** 155(10), 2153-2160	**(10+ 20x 5,213)/13 = 8,789**
	42. E. Kurganov et al., *Heat and AITC activate green anole TRPA1 in a membrane-delimited manner*, **2014**, **Pflugers Archiv-European Journal Of Physiology** 466(10), 1873-1884	**(10+ 20x 4,101)/13 = 7,078**
	43. S.K. Pittman et al., *Paclitaxel alters the evoked release of calcitonin gene-related peptide from rat sensory neurons in culture*, **2014**, **Experimental Neurology** 253, 146-153	**(10+ 20x 4,696)/13 = 7,994**
	44. G. Trevisan et al., *Mechanisms involved in abdominal nociception induced by either TRPV1 or TRPA1 stimulation of rat peritoneum*, **2013**, **European Journal Of Pharmacology** 714(1-3), 332-344	**(10+ 20x 2,684)/13 = 4,898**
	45. L.M. O'Mullane et al., *Co-Cultures Provide a New Tool to Probe Communication Between Adult Sensory Neurons and Urothelium*, **2013**, **Journal Of Urology** 190(2), 737-745	**(10+ 20x 3,753)/13 = 6,543**
	46. N. Mori et al., *Intragastric Administration of Allyl Isothiocyanate Reduces Hyperglycemia in Intraperitoneal Glucose Tolerance Test (IPGTT) by Enhancing Blood Glucose Consumption in Mice*, **2013**, **Journal Of Nutritional Science And Vitaminology** 59(1), 56-63	**(10+ 20x 0,868)/13 = 2,105**

	47. K. Nakatsuka et al., *Identification of Molecular Determinants for a Potent Mammalian TRPA1 Antagonist by Utilizing Species Differences*, **2013**, **Journal Of Molecular Neuroscience** 51(3), 754-762	**(10+ 20x 2,757)/13 = 5,011**
	48. P.K. Smith and B. Nilius, *Transient Receptor Potentials (TRPs) and Anaphylaxis*, **2013**, **Current Allergy And Asthma Reports** 13(1), 93-100	**(10+ 20x 2,450)/13 = 4,538**
	49. Z. Winter et al., *Functionally important amino acid residues in the transient receptor potential vanilloid 1 (TRPV1) ion channel - an overview of the current mutational data*, **2013**, **Molecular Pain** 9: 30	**(10+ 20x 3,531)/13 = 6,202**
	50. M. Gees et al., *Mechanisms of Transient Receptor Potential Vanilloid 1 Activation and Sensitization by Allyl Isothiocyanate*, **2013**, **Molecular Pharmacology** 84(3), 325-334	**(10+ 20x 4,120)/13 = 7,108**
	51. Y. Zhou et al., *Identification of a splice variant of mouse TRPA1 that regulates TRPA1 activity*, **2013**, **Nature Communications** 4: 2399	**(10+ 20x10,742)/13 = 17,295**
	52. T.I. Kichko et al., *Bimodal Concentration -Response of Nicotine Involves the Nicotinic Acetylcholine Receptor, Transient Receptor Potential Vanilloid Type 1, and Transient Receptor Potential Ankyrin 1 Channels in Mouse Trachea and Sensory Neurons*, **2013**, **Journal Of Pharmacology And Experimental Therapeutics** 347(2), 529-539	**(10+ 20x 3,855)/13 = 6,700**
	53. M. Wyndaele et al., *Mechanisms of Pelvic Organ Crosstalk: 1. Peripheral Modulation of Bladder Inhibition by Colorectal Distention in Rats*, **2013**, **Journal Of Urology** 190(2), 765-771	**(10+ 20x 3,753)/13 = 6,543**
	54. M.J. Eberhardt et al., *Methylglyoxal Activates Nociceptors Through Transient Receptor Potential Channel A1 (TRPA1) A Possible Mechanism Of Metabolic Neuropathies*, **2012**, **Journal Of Biological Chemistry** 287(34), 28291-28306	**(10+ 20x 4,651)/13 = 7,925**
	55. M. Gees et al., *TRP Channels*, **2012**, **Comprehensive Physiology** 2(1), 563-608	**(10+ 20x 0,807)/13 = 2,011**
	56. S. Earley, *TRPA1 channels in the vasculature*, **2012**, **British Journal Of Pharmacology** 167(1), 13-22	**(10+ 20x 5,067)/13 = 8,565**

	57. H.J. Son et al., *Methyl syringate, a low-molecular-weight phenolic ester, as an activator of the chemosensory ion channel TRPA1*, **2012**, **Archives Of Pharmacal Research** 35(12), 2211-2218	**(10+ 20x 1,538)/13 = 3,135**
	58. M. Dux et al., *The role of chemosensitive afferent nerves and TRP ion channels in the pathomechanism of headaches*, **2012**, **Pflugers Archiv-European Journal Of Physiology** 464(3), 239-248	**(10+ 20x 4,866)/13 = 8,255**
	59. K. Uchida et al., *Isothiocyanates from Wasabia japonica Activate Transient Receptor Potential Ankyrin 1 Channel*, **2012**, **Chemical Senses** 37(9), 809-818	**(10+ 20x 3,222)/13 = 5,726**
	60. H.J. Son et al., *Activation of the Chemosensory Ion Channels TRPA1 and TRPV1 by Hydroalcohol Extract of Kalopanax pictus Leaves*, **2012**, **Biomolecules & Therapeutics** 20(6), 550-555	**(10+ 20x 0,794)/13 = 1,991**
	61. P. Uvin et al, *The Use of Cystometry in Small Rodents: A Study of Bladder Chemosensation*, **2012**, **JoVE-Journal Of Visualized Experiments** 66: UNSP e3869	**(10+ 20x 1,325)/13 = 2,808**
	62. T. Yu et al., *Activation of oral trigeminal neurons by fatty acids is dependent upon intracellular calcium*, **2012**, **Pflugers Archiv-European Journal Of Physiology** 464(2) 227-237	**(10+ 20x 4,866)/13 = 8,255**
	63. A.E. Olesen et al., *Human Experimental Pain Models for Assessing the Therapeutic Efficacy of Analgesic Drugs*, **2012**, **Pharmacological Reviews** 64(3), 722-779	**(10+ 20x22,345)/13 = 35,146**
	64. S. Wang et al., *Warmth suppresses and desensitizes damage-sensing ion channel TRPA1*, **2012**, **Molecular Pain** 8, no.22	**(10+ 20x 3,774)/13 = 6,575**
	65. J.I. Glendinning et al., *Fetal ethanol exposure attenuates aversive oral effects of TrpV1, but not TrpA1 agonists in rats*, **2012**, **Experimental Biology And Medicine** 237(3), 236-240	**(10+ 20x 2,803)/13 = 5,082**
	66. E.L. Andrade et al., *TRPA1 antagonists as potential analgesic drugs*, **2012**, **Pharmacology & Therapeutics** 133(2), 189-204	**(10+ 20x 7,793)/13 = 12,758**
	67. J. Donnerer and I. Liebmann, *Phosphorylation of ERK1/2 in Dorsal Root Ganglia following Sequential Mustard Oil and Thermal Stimulation of*	**(10+ 20x 1,603)/13 = 3,235**

	the Rat Hind Paw, **2012**, **Pharmacology** 89(1-2), 7-12	
	68. N. Takahashi and Y. Mori, *TRP channels as sensors and signal integrators of redox status changes*, **2011**, **Frontiers In Pharmacology** 2: UNSP 58	**(10+ 20x 3,802)/13 = 6,618**
	69. Shigetomi Eiji et al., *TRPA1 channels regulate astrocyte resting calcium and inhibitory synapse efficacy through GAT-3*, **2011**, **Nature Neuroscience** 15(1), 70-U215	**(10+ 20x15,531)/13 = 24,663**
	70. K.Weller et al., *TRPV1, TRPA1, and CB1 in the isolated vagus nerve - Axonal chemosensitivity and control of neuropeptide release*, **2011, Neuropeptides** 45(6), 391-400	**(10+ 20x 1,553)/13 = 3,158**
	71. Jain Anil et al., *TRP-channel-specific cutaneous eicosanoid release patterns*, **2011**, **PAIN** 152(12), 2765-2772	**(10+ 20x 5,777)/13 = 9,657**
	72. Skryma Roman et al., *From urgency to frequency: facts and controversies of TRPs in the lower urinary tract*, **2011**, **Nature Reviews Urology** 8(11), 617-630	**(10+ 20x 4,415)/13 = 7,562**
	73. Brierley Stuart M. et al., *TRPA1 contributes to specific mechanically activated currents and sensory neuron mechanical hypersensitivity*, **2011**, **Journal of Physiology-London** 589(14), 3575-3593	**(10+ 20x 4,881)/13 = 8,278**
	74. Brozmanova M. et al., *Preferential activation of the vagal nodose nociceptive subtype by TRPA1 agonists in the guinea pig esophagus*, **2011**, **Neurogastroenterology And Motility** 23(10), E437-E445	**(10+ 20x 3,414)/13 = 6,022**
	75. Holzer Peter, *Transient receptor potential (TRP) channels as drug targets for diseases of the digestive system*, **2011**, **Pharmacology & Therapeutics** 131(1), 142-170	**(10+ 20x 8,562)/13 = 13,942**
	76. Raisinghani Manish et al., *Activation characteristics of transient receptor potential ankyrin 1 and its role in nociception*, **2011**, **American Journal of Physiology – Cell Physiology** 301(3), 587-600	**(10+ 20x 3,536)/13 = 6,209**
	77. C. Grimm et al., *Dissecting TRPV1: Lessons to be learned?*, **2011**, **Channels** 5(3), 201-204	**(10+ 20x 2,140)/13 = 4,062**

	* **Aurelia Apetrei**, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, Mathias Winterhalter, Tudor Luchian, *Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the HP(2–20) antimicrobial peptide*, 2010, Journal of Bioenergetics and Biomembranes 42(2), 172-180, **citat în:**	
	1. A. Asandei et al., *Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation*, **2016**, **ACS Applied Materials & Interfaces** 8(20), 13166-13179	**(10 + 20 x 7,145)/6 = 25,483**
	2. M.-F. Lin et al., *OmpA Binding Mediates the Effect of Antimicrobial Peptide LL-37 on Acinetobacter baumannii*, **2015**, **PLOS ONE** 10(10): e0141107	**(10 + 20 x 3,057)/6 = 11,857**
	3. J. Cruz et al., *Antimicrobial Peptides: Promising Compounds Against Pathogenic Microorganisms*, **2014**, **Current Medicinal Chemistry** 21(20), 2299-2321	**(10 + 20 x 3,853)/6 = 14,510**
	4. L. Mereuta et al., *Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation*, **2014**, **Scientific Reports** 4: 3885	**(10 + 20 x 5,578)/6 = 20,260**
	5. G. Ghale et al., *Chemosensing Ensembles for Monitoring Biomembrane Transport in Real Time*, **2014**, **Angewandte Chemie -International Edition** 53(10), 2762-2765	**(10 + 20x 11,261)/6 = 39,203**
	6. U. Lamichhane et al., *Peptide translocation through the mesoscopic channel: binding kinetics at the single molecule level*, **2013**, **European Biophysics Journal With Biophysics Letters** 42(5), 363-369	**(10 + 20 x 2,474)/6 = 9,913**
	7. L. Mereuta et al., *Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide*, **2012**, **Langmuir** 28(49), 17079-17091	**(10 + 20 x 4,187)/6 = 15,623**
	8. A. Brauser et al., *Modulation of enrofloxacin binding in OmpF by Mg2+ as revealed by the analysis of fast flickering single-porin current*, **2012**, **J. Of General Physiology** 140(1), 69-82	**(10 + 20 x 4,730)/6 = 17,433**

	9. C. Christensen et al., *Effect of charge, topology and orientation of the electric field on the interaction of peptides with the alpha-hemolysin pore*, **2011**, **Journal Of Peptide Science** 17(11), 726-734	**(10 + 20 x 1,799)/6 = 7,663**
	10. L.T. Nguyen et al., *The expanding scope of antimicrobial peptide structures and their modes of action*, **2011**, **Trends In Biotechnology** 29 (9), 464-472	**(10 + 20 x 9,148)/6 = 32,160**
	11. B.M. Radu et al., *Mechanisms of Ceftazidime and Ciprofloxacin Transport through Porins in Multidrug-Resistance Developed by Extended-Spectrum Beta-Lactamase E.coli Strains*, **2011**, **Journal of Fluorescence** 21(4), 1421-1429	**(10 + 20 x 2,107)/6 = 8,690**
	12. N.G. Housden et al., *Directed epitope delivery across the Escherichia coli outer membrane through the porin OmpF*, **2010**, **PNAS USA** 107(50), 21412-21417	**(10 + 20 x 9,771)/6 = 34,237**
	* **Aurelia Apetrei**, Loredana Mereuţă, Tudor Luchian, *The RH 421 styryl dye induced, pore model-dependent modulation of antimicrobial peptides activity in reconstituted planar membranes*, 2009, Biochimica et Biophysica Acta – General Subjects 1790(8), 809-816, **citat în:**	
	1. S.S. Efimova et al., *Effects of Dipole Potential Modifiers on Heterogenic Lipid Bilayers*, **2016**, **Journal Of Membrane Biology** 249(1-2), 97-106	**(10 + 20 x 1,991)/3 = 16,607**
	2. S.S. Efimova et al., *Two types of syringomycin E channels in sphingomyelin- containing bilayers*, **2016**, **European Biophysics Journal With Biophysics Letters** 45(1), 91-98	**(10 + 20 x 1,444)/3 = 12,960**
	3. I. Schiopu et al., *Nanopore Investigation of the Stereoselective Interactions between Cu2+ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue*, **2015**, **Langmuir** 31(1), 387-396	**(10 + 20 x 3,993)/3 = 29,953**
	4. E.G. Chulkov et al., *Membrane dipole modifiers modulate single-length nystatin channels via reducing elastic stress in the vicinity of the lipid mouth of a pore*, **2015**, **BBA-Biomembranes**	**(10 + 20 x 3,687)/3 = 27,913**

	1848(1), 192-199	
	5. S.S. Efimova et al., *Modifiers of the Dipole Potential of Lipid Bilayers*, **2015**, **Acta Naturae** 7(4), 70-79	**(10 + 20 x 1,770)/3 = 15,133**
	6. S.S. Efimova et al., *Investigation of Channel-Forming Activity of Polyene Macrolide Antibiotics in Planar Lipid Bilayers in the Presence of Dipole Modifiers*, **2014**, **Acta Naturae** 6(4), 67-79	**(10 + 20 x 1,000)/3 = 10,000**
	7. O.S. Ostroumova et al., *The interaction of dipole modifiers with amphotericin-ergosterol complexes. Effects of phospholipid and sphingolipid membrane composition*, **2014**, **European Biophysics Journal With Biophysics Letters** 43(4-5), 207-215	**(10 + 20 x 2,219)/3 = 18,127**
	8. S.S. Efimova et al., Channel-Forming Activity of Cecropins in Lipid Bilayers: Effect of Agents Modifying the Membrane Dipole Potential, **2014**, **Langmuir** 30(26), 7884-7892	**(10 + 20 x 4,457)/3 = 33,047**
	9. L. Kredics et al., *Recent Results in Alamethicin Research*, **2013**, **Chemistry & Biodiversity** 10(5), 744-771	**(10 + 20 x 1,795)/3 = 15,300**
	10. O.S. Ostroumova et al., *The Interaction of Dipole Modifiers with Polyene-Sterol Complexes*, **2012**, **PLOS ONE** 7(9): e45135	**(10 + 20 x 3,730)/3 = 28,200**
	11. L. Mereuta et al., *Meet Me on the Other Side: Trans-Bilayer Modulation of a Model Voltage-Gated Ion Channel Activity by Membrane Electrostatics Asymmetry*, **2011**, **PLOS ONE** 6(9): e25276	**(10 + 20 x 4,092)/3 = 30,613**
	12. V.V. Lemeshko, *Permeabilization of mitochondria and red blood cells by polycationic peptides BTM-P1 and retro-BTM-P1*, **2011**, **PEPTIDES** 32, 2010-2020	**(10 + 20 x 2,434)/3 = 19,560**
	13. O.S. Ostroumova et al., *Surfactin Activity Depends on the Membrane Dipole Potential*, **2010**, **Langmuir** 26(19), 15092-15097	**(10 + 20 x 4,268)/3 = 31,787**
	Factorul de impact al revistei a fost completat cu valoarea corespunzătoare anului publicării articolului, respectiv celui mai apropiat an în situația absenței valorii pentru anul în cauză (conform Thomson Reuters-Journal Citation Reports)	**Scor Individual 12 2.344,571**
	13. Lucrări susţinute în calitate de invitat la manifestări ştiinţifice (conferinţe, congrese, simpozioane)	**Scor individual 13 0**

	14. Profesor/cercetător invitat la universităţi /institute de cercetare	**Scor individual 14** **0**
	15. Editor/Membru în Editorial Board & Advisory Board	**Scor individual 15** **0**
	16. Premii internaţionale obţinute printr-un proces de selecţie 1. **Premiul II** la conferinţa internaţională "**Australia-Croatia workshop on antimicrobial peptides: AMP 2010**", Split, Croaţia, 9-14 august 2010, pentru lucrarea: "***Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the HP(2–20) antimicrobial peptide***" 2. **Premiu pentru cel mai bun poster "Nano-Biology"**, acordat de NSF USA în cadrul conferinţei "**International Workshop NanoRomania**", Iaşi, June 2-5, **2009**, pentru lucrarea: "***Activity of antimicrobial peptides in reconstituted planar lipid membranes under the influence of membrane dipole moment modulatory agents***"	**100 puncte / categorie / număr de persoane** **Scor individual 16** **0**
		Scor individual 16 **0**
	17. Premii ale Academiei Române	**Scor individual 17** **0**
	18. Alte premii naţionale ale instituţiilor culturale	**Scor individual 18** **0**
	19. Participări la manifestări ştiinţifice 1. Membru în comitetul de organizare al conferinţei *12th National Conference on Biophysics, with international participation*, 13-16 iunie 2013, Iasi, Romania (Prezentarea a 25 de lucrări în cadrul unor conferințe internaționale și a 24 de lucrări în cadrul unor conferințe naționale)	**naționale: membru comitet organizare, 5 puncte pentru fiecare activitate** **5**
		Scor individual 19 **5,000**

	TOTAL ACTIVITATE DE CERCETARE	**3.023,132**
II. ACTIVITATEA DIDACTICĂ (30%)	**1. Tratate şi manuale universitare**	**Scor individual 1** **0**
	2. Proiecte didactice (înfiinţare/dotare laboratoare licenţă, master, săli workshop, biblioteci proprii) 1. Achiziție accesorii Mocroscop Confocal Inversat Nikon Eclipse Ti-E: - dioda laser 642 nm (23.785,23 lei); - software Nikon NisE-Ar (3.340,13 lei); - Cy5-4040C Filtre Cube (9.685,44 lei). Înainte de achiziționarea acestor accesorii, Microscopul Confocal era doar parțial funcțional. Microscopul este utilizat în cadrul laboratoarelor didactice de *Practică* pentru studenții din anul I Licență și Anul I Master, Specializarea Biofizică și Fizică Medicală. De asemenea, este echipamentul de bază implicat în realizarea unui număr de 3 Lucrări de Licență și 4 Lucrări de disertație. 2. Achiziție lipide și electrozi EKG pentru Laboratoarele de *Biofizică Generală*, *Practică* și pentru realizarea Lucrărilor de Licență și Disertație	**40 puncte pentru fiecare activitate** **40**
		Scor individual 2 **40,000**
	3. Materiale suport curs, seminar, lucrări practice şi programe analitice detaliate 1. Materiale suport pentru laboratoarele şi seminariile de *Biofizică Generală* 2. Materiale suport pentru cursul și laboratorul de *Modelarea Numerică și analogică a proceselor biologice* 3. Materiale suport pentru cursul și laboratorul de *Neurotransmițători și neurofarmaceutice*	**10 puncte pentru fiecare activitate** **10** **10** **10**
		Scor individual 3 **30,000**

	4. Organizare de aplicaţii şi practică de specialitate **1.** Organizare practică de specialitate pentru studenţii anului I Licență, în laboratoarele de Biofizică şi Fizică Medicală **2.** Organizare practică de specialitate pentru studenţii anului I Master, specializarea Biofizică şi Fizică Medicală	**5 puncte pentru fiecare activitate** **5** **5**
		Scor individual 4 10,000
	TOTAL ACTIVITATE DIDACTICĂ	**80,000**
TOTAL		**3103,132**