



Anexa 1

FISA DE EVALUARE GENERALA A STANDARDELOR UNIVERSITATII

DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25) / număr autori	2008,829
2. Articole științifice publicate <i>in extenso</i> în reviste indexate fără factor de impact	20 puncte / număr autori	26,67
3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte / număr autori	3,75
4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori	56
	indexate în BDI: 15 puncte / număr autori	---
	alte categorii: 5 puncte / număr autori	---
5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini / număr autori	30
	alte edituri internaționale: 70 puncte la 100 pagini / număr autori	---
	edituri academice naționale: 50 puncte la 100 pagini / număr autori	---
	alte edituri naționale: 20 puncte la 100 pagini / număr autori	---
6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori	---
7. Coordonarea și editarea de volume, traduceri și antologii	edituri academice internaționale: 60 puncte / număr autori	---
	alte edituri internaționale: 40 puncte / număr autori	---
	edituri academice naționale: 30 puncte / număr autori	---
	alte edituri naționale: 15 puncte / număr autori	---
8. Articole publicate în dicționare și enciclopedii	edituri academice internaționale: 30 puncte / număr autori	---
	alte edituri internaționale: 20 puncte / număr autori	---
	edituri academice naționale: 15 puncte / număr autori	---
	alte edituri naționale: 5 puncte / număr autori	---
9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro	---
	contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare	421,54
	contracte naționale – director: 50 puncte pentru fiecare 500.000 lei	45
	contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare	20,632
10. Contracte de cercetare în mediul de afaceri și sectorul	organizații internaționale: 100 puncte pentru fiecare 100.000 Euro	---



DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
public	firmе multinaționale: 100 puncte pentru fiecare 100.000 Euro	---
	firmе naționale: 50 puncte pentru fiecare 500.000 Euro	---
	organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro	---
	alte organizații publice de nivel național: 30 puncte pentru fiecare 500.000 Euro	---
11. Brevete	internaționale: 100 puncte / număr de autori	---
	naționale: 30 puncte / număr autori	---
12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare	17440,42
	reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare	---
	monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare	383,38
	monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare	---
13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	străinătate: 25 puncte pentru fiecare activitate 1. Corina Ciobanasu , “The talin-vinculin complex in a bimimetic system”, Seminar on Aggregation Processes of Bioactive Molecules on Membranes, 15-17 September 2015, Bonn, Germany 2. Corina Ciobanasu and Ulrich Kubitscheck, “Single Molecule Microscopy- an Attractive Tool for Characterization of Nanoenvironments”, 4th International Seminar on Modern Polymeric Materials for Environmental Applications, 1–3 December 2010, Kraków, Poland 3. Corina Mocanu , S. Ciovica, K. Pielichowski, Alina Murariu, J. Pielichowski, J. Polaczek, „Cellulose Phosphates in Lithium Chloride/Dimethylacetamide System as Biomaterials”, 2nd International Seminar on Modern Polymeric Materials for Environmental Applications, 23–25 March 2006, Kraków, Poland	75
	țară: 10 puncte pentru fiecare activitate	---
14. Profesor/cercetător invitat la universități/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate - 09/2015- invitation to return for a short research stay at the University of Bonn, Germany	25
	țară: 10 puncte pentru fiecare activitate	---
15. Editor/Membru în Editorial Board&Advisory Board	reviste cotate <i>Web of Science</i> : editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă - Guest Editor for journal <i>Pharmaceutics</i> (ISSN 1999-4923), for the Special Issue "State-of-Art in Transmembrane Active Peptide"	30
	reviste internaționale și alte reviste ale Universității: editor, 15 puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă	---
16. Premii internaționale obținute printr-un proces de	100 puncte / categorie / număr persoane 2015: Call: Forscher-Alumni-Strategie Application for a	



DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
selecție	Research Stay part of the Bonn Research Alumni Strategy funded by the Alexander von Humboldt Foundation and Strategic Internationalization of the Bonn Graduate Schools (“International Promovieren in Deutschland – for all”, IPID4all) program promoted by the DAAD, Bonn Graduate Center (BGC), University of Bonn, Germany 2007-2010: Marie Curie fellowship, Institute of Physical and Theoretical Chemistry, Rheinische Friedrich Wilhelms University Bonn, Germany, 6 th Framework Programme MCRTN – 33439 2004- 2005: Marie Curie fellowship, Department of Chemistry and Technology of Polymers, Krakow University of Technology, Krakow-Poland, 5 th Framework Programme, HPMT-CT-2001-00379	300
17.Premii ale Academiei Române	50 puncte / categorie / număr persoane	---
18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr persoane	---
19. Participări la manifestări științifice	internaționale: președinte comitet organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate	300
	naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate	30
TOTAL PUNCTAJ		21.196,221

19.12.2022

CS III dr. Corina Ciobanasu



1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact, Punctaj: 1435.698

Ciobanasu, Corina, *Confocal Laser Scanning Microscopy and Model Membranes to Study Translocation Mechanisms of Membrane Active Peptides. Pharmaceutics*, 14, 1699, 2022, <https://doi.org/10.3390/pharmaceutics14081699>

(60 x 6.525+ 25) /1= **416.5**

Corina Ciobanasu, *Peptides-based therapy and diagnosis. Strategies for non-invasive therapies in cancer. Journal of Drug Targeting*, 2021. 29(10): p. 1063-1079. <https://doi.org/10.1080/1061186X.2021.1906885>

(60 x 5.016+ 25) /1= **325.96**

Corina Ciobanasu*, Isabela Dragomir, Aurelia Apetrei, *The penetrating properties of the tumor homing peptide LyP-1 in model lipid membranes, Journal of Peptide Science*, 25(3):e314., 2019, <https://doi.org/10.1002/psc.3145>.

(60 x 2.408+ 25) /3= **56.493**

Corina Ciobanasu, Hong Wang, Véronique Henriot, Cécile Mathieu, Annabelle Fente, Sandrine Csillag, Clémence Vigouroux, Bruno Faivre, Christophe Le Clainche, *Integrin-bound talin head inhibits actin filament barbed-end elongation, Journal of Biological Chemistry*, 293, 2586-2596, 2018, DOI:<https://doi.org/10.1074/jbc.M117.808204>

(60 x 5.485+ 25) /9= **39.344**

A. Asandei, I Schiopu, **C Ciobanasu**, Y Park, T Luchian, *If squeezed, a camel passes through the eye of a needle: voltage-mediated stretching of dendrimers facilitates passage through a nanopore, Journal of membrane biology*, 251 (3), 2018, 405-417, <https://doi.org/10.1007/s00232-017-9999-1>

(60 x 2.426+ 25) /5= **34.112**

Corina Ciobanasu, A Rzeszutek, U Kubitscheck, R Willumeit, *NKCS, a Mutant of the NK-2 Peptide, Causes Severe Distortions and Perforations in Bacterial, But Not Human Model Lipid Membranes, Molecules* 20 (4), 2015, 6941-6958, <https://doi.org/10.3390/molecules20046941>

(60 x 4.927+ 25) /4= **80.155**

Corina Ciobanasu, Bruno Faivre and Christophe Le Clainche, *Reconstituting actomyosin-dependent mechanosensitive protein complexes in vitro, Nature Protocols*, 10, 75–89, 2015, <https://doi.org/10.1038/nprot.2014.200>

(60 x 17.021+ 25) /3= **348.753**

Corina Ciobanasu, Bruno Faivre and Christophe Le Clainche, *Actomyosin-dependent formation of the mechanosensitive talin–vinculin complex reinforces actin anchoring, Nature Communications*, 5: 3095, 2014, <https://doi.org/10.1038/ncomms4095>

(60 x 17.694+ 25) /3= **362.213**

Katharina M. Scherer, Imke Wiedemann, **Corina Ciobanasu**, Hans-Georg Sahl, and Ulrich Kubitscheck, *Aggregates of Nisin with Various Bactoprenol-containing Cell Wall Precursors Differ in Size and Membrane Permeation Capacity, BBA Biomembranes*, 1828(11), 2013, 2628–2636, <https://doi.org/10.1016/j.bbamem.2013.07.014>

(60 x 4.019+ 25) /5= **53.228**

Corina Ciobanasu, Bruno Faivre and Christophe Le Clainche, *Integrating actin dynamics, mechanotransduction and integrin activation: the multiple functions of actin binding proteins in focal adhesions, European Journal of Cell Biology*, 92(10-11), 2013, 339-348, <https://doi.org/10.1016/j.ejcb.2013.10.009>

(60 x 6.02+ 25) /3= **128.733**

Corina Ciobanasu, Jan Peter Siebrasse and Ulrich Kubitscheck, *Cell penetrating HIV1 TAT peptides can form pores in model membranes, Biophysical Journal*, 99 (1) 2010, 153-162, <https://doi.org/10.1016/j.bpj.2010.03.065>

(60 x 3.699+ 25) /3= **82.313**

Corina Ciobanasu, Enno Harms, Gisela Tünnemann, M. Cristina Cardoso and Ulrich Kubitscheck, *Cell-penetrating HIV1 TAT peptides float on model lipid bilayers, Biochemistry*, 2009, 48 (22), 4728–4737, <https://doi.org/10.1021/bi900365s>

(60 x 3.321+ 25) /5= **44.852**

T. Malutan, **Corina Mocanu**, S. Ciofica, *Synthesis and characterization of new cellulose derivatives in a*



dimethylacetamide/lithium chloride homogeneous system, *Cellulose Chemistry and Technology*, 42(1/3), 2008, 1-7, ISSN: 0576-9787, WOS:000265267600001
(60 x 1.387+ 25) /3= **36.073**

2. Articole științifice publicate *in extenso* în reviste indexate fără factor de impact

Corina Ciobanasu, B Faivre, C Le Clainche, *Actin dynamics associated with focal adhesions*, *International Journal of Cell Biology*, vol. 2012, Article ID 941292, 9 pages, 2012. <https://doi.org/10.1155/2012/941292>
20 puncte / 3= **6,67**

Corina Ciobanasu, A biomimetic system to reconstitute and test the actomyosin-dependent mechanosensitive protein complexes, *Molecules & Medicinal Chemistry*, 2015, 2: e910. doi: 10.14800/mmc.910
20 puncte / 1= **20**

3. Articole științifice publicate *in extenso* în reviste indexate BDI

C Mocanu, S Ciovisa, A Murariu, K Pielichowski Cellulose Dissolution in Lithium Chloride/ N,N-Dimethylacetamide System under Microwave Irradiation, 2005, Bul. Inst. Polit. Iași 51 (LI-LV (3-4)), 86-97
15 puncte / 4= **3,75**

4. Articole științifice publicate *in extenso* în volumele conferințelor

Corina Ciobanasu, Tudor Luchian , “Emerging factors for improved cell membrane permeabilization with membrane active peptides”, *European Biophysics Journal with Biophysics Letters* (2019) 48 (Suppl 1):S159–S150,
30 puncte / 2= **15**

Corina Ciobanasu, Aurelia Apetrei, “The tumor homing peptide tLyp shows penetrating properties in model membranes”, *Eur Biophys J* (2017) 46 (Suppl 1):S43–S402
30 puncte / 2= **15**

Katharina Scherer, Imke Wiedemann, **Corina Ciobanasu**, Hans-Georg Sahl, Ulrich Kubitscheck, (2012), „Fluorescence Microscopy Monitoring of Nisin Binding To Bactoprenol Bound Cell Wall Precursors”, *Biophys J*, **102**(3): 92a
30 puncte / 5= **6**

Malgorzata Hermanowska, Goran Bijelic, **Corina Ciobanasu**, Ulrich Kubitscheck, Per Claesson, Beate M. Klösgen, „Charges in phospholipid layers” (2009), *Biophys J*, **96**(3): 18a
30 puncte / 6= **5**

Corina Ciobanasu and Ulrich Kubitscheck, (2009) „HIV1 TAT peptides translocate efficiently into giant unilamellar vesicles”, *Eur Biophys J*, **38** (Suppl 1):S199
30 puncte / 2= **15**

5. Cărți științifice publicate (doar prima ediție)

Ciobanasu Corina, and Kubitscheck U., Chapter 55: *Cell penetrating peptides targeting and distorting biological membranes*. In "Surface and Interface Science Vol. 7: Solid/Liquid and Biological Interfaces", ed. K. Wandelt, Wiley-VCH, Weinheim. P. 441-470 ISBN: 978-3-527-41159-7, 2020
100 x 30 /100=**30**

9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)

Nationale

Noi structuri peptidice cu potențiale aplicații în terapia țintită și diagnosticul timpuriu în cancer, *THERHOME*, cod PN-III-P1-1.1-TE-2021-0331, contract de finanțare nr. TE 63/2022, 15.05.2022-14.05.2024, LEI 450.000-
director de proiect



$$50 \times (450.000 / 500.000) = 45$$

Membru in echipa proiectului:

“Tehnologii moleculare emergente bazate pe sisteme micro și nano-structurate cu aplicații biomedicale”, acronim TehnoBioMed, cod: PN-III-P1-1.2-PCCDI-2017-0010, contract de finanțare nr. 74PCCDI/01.03.2018, **proiectul component nr. 2: Dezvoltarea unor sisteme de transport și eliberare a unor molecule biologice active bazate pe dendrimeri, cu aplicații directe în domeniul biomedical și farmaceutic și , proiectul component nr. 4: "Tehnologii de obtinere de nanoimunisorbenti pe baza de nanoparticule de SiO₂, Fe₂O₃ și Au funcționalizate cu anticorpi sau antigene și aplicații ale acestora în tehnicile de tip nanoELISA în faza omogenă pentru detectia de contaminanți de tip pesticidic din probe alimentare și de mediu"**

$$50 \times (990.000 / 500.000) / 8 = 12,375$$

“Metodă bazată pe nanopori de detecție și cuantificare a bacteriilor prin interacțiunea selectivă a peptidelor antimicrobiene cu membrane bacteriene” (BACTODET) cod PN-II-RU-TE-2014-4-2388, acronim, contract de finanțare nr. 64/01.10.2015

$$50 \times (550.000 / 500.000) / 7 = 7,857$$

“Gold nanoparticles functionalized with cell penetrating peptides for efficient drug delivery systems”, Granturi interne Universitatea de Medicină și Farmacie “Grigore T. Popa” Iași, Romania

$$50 \times (20000 / 500.000) / 5 = 0,4$$

Internationale

“Design and development of therapeutic AMPs against epidemic superbugs”, NFR Global Research Laboratory Program, South Korea

$$100 \times (87500 / 100.000) / 6 = 14,53$$

„The Eastern European Network of Excellence for Research and Development in the field of Chronic Diseases CHRONEX-RD”, Joint Operational Programme Romania-Ukraine-Republic of Moldova, Contract: 2/1/149 MIS ETC Code 1840, EUR 1.488.000

perioada 2014-2015

$$100 \times (1488000 / 100.000) / 20 = 74,4$$

ANR research grant (National Agency for Research), ANR-09-JCJC-0111-01 ADERACTIN, EUR 249 955, perioada 2009-2013

$$100 \times (249955 / 100.000) / 2 = 124,98$$

„Bio-interfaces: From molecular understanding to application” (BIOCONTROL), Marie Curie Research Training Networks (MCRTN-033439), EUR 2 842 10, perioada 2006-2010

$$100 \times (2842101 / 100.000) / 16 = 177,63$$

5th Framework Programme “Improving the Human Research Potential and the Socio-Economic Knowledge Base”, HPMT-CT-2001-00379, EUR 240 000, perioada 2002-2006

$$100 \times (240000 / 100.000) / 8 = 30$$

12. Citări și recenzii ale lucrărilor științifice: 17440,42**2022- Punctaj: 2962.916**

Peptides-based therapy and diagnosis. Strategies for non-invasive therapies in cancer, Corina Ciobanasi*, *Journal of Drug Targeting*, 2021 citat în:



Iavorschi, M., et al., *Cu and Zn Interactions with Peptides Revealed by High-Resolution Mass Spectrometry*. Pharmaceuticals (Basel), 2022. **15**(9).

$$(10 + 20 \times 5.215)/1 = \mathbf{114.3}$$

Zhang, D., et al., *Drug-loaded PEG-PLGA nanoparticles for cancer treatment*. Front Pharmacol, 2022. **13**: p. 990505.

$$(10 + 20 \times 5.988)/1 = \mathbf{129.76}$$

Zeng, S., et al., *Advanced Peptide Nanomedicines for Bladder Cancer Theranostics*. Front Chem, 2022. **10**: p. 946865.

$$(10 + 20 \times 5.545)/1 = \mathbf{120.9}$$

Chen, W.H., et al., *Biomedical polymers: synthesis, properties, and applications*. Sci China Chem, 2022. **65**(6): p. 1010-1075.

$$(10 + 20 \times 10.152)/1 = \mathbf{213.04}$$

The penetrating properties of the tumor homing peptide LyP-1 in model lipid membranes, Corina Ciobanasu*, Isabela Dragomir, Aurelia Apetrei, *Journal of Peptide Science*, 25(3):e314,. 2019, doi: 10.1002/psc.3145, citat in:

Larue, L., et al., *tLyp-1: A peptide suitable to target NRP-1 receptor*. Bioorg Chem, 2023. **130**: p. 106200.

$$(10 + 20 \times 5.307)/3 = \mathbf{38.713}$$

Ben Trad, F., et al., *Dynamic Electrochemiluminescence Imaging of Single Giant Liposome Opening at Polarized Electrodes*. Anal Chem, 2022. **94**(3): p. 1686-1696.

$$(10 + 20 \times 8.008)/3 = \mathbf{56.72}$$

Feni, L. and I. Neundorff, *Different Approaches to Cyclize a Cell-Penetrating Peptide and to Tether Bioactive Payloads*. Methods Mol Biol, 2022. **2371**: p. 375-389.

$$(10 + 20 \times 1.372)/3 = \mathbf{12.48}$$

S Hemmati, H Rasekhi Kazerooni, *Polypharmacological Cell-Penetrating Peptides from Venomous Marine Animals Based on Immunomodulating, Antimicrobial, and Anticancer Properties*, Mar. Drugs 2022, 20(12), 763; <https://doi.org/10.3390/md20120763>

$$(10 + 20 \times 6.085)/3 = \mathbf{43.9}$$

Integrin-bound talin head inhibits actin filament barbed-end elongation, Corina Ciobanasu, Hong Wang, Véronique Henriot, Cécile Mathieu, Annabelle Fente, Sandrine Csillag, Clémence Vigouroux, Bruno Faivre, Christophe Le Clainche, *Journal of Biological Chemistry*, 293, 2586-2596, citat in:

Wen, L., M. Moser, and K. Ley, *Molecular mechanisms of leukocyte beta2 integrin activation*. Blood, 2022. **139**(24): p. 3480-3492

$$(10 + 20 \times 25.669)/9 = \mathbf{58.153}$$

NKCS, a Mutant of the NK-2 Peptide, Causes Severe Distortions and Perforations in Bacterial, But Not Human Model Lipid Membranes, Corina Ciobanasu, A Rzeszutek, U Kubitscheck, R Willumeit, *Molecules* 20 (4), 2015, 6941-6958 citat in

Agadi, N., et al., *Distinct mode of membrane interaction and disintegration by diverse class of antimicrobial peptides*. Biochim Biophys Acta Biomembr, 2022. 1864(12): p. 184047.

$$(10 + 20 \times 4.019)/4 = \mathbf{22.595}$$

Hadjicharalambous, A., et al., *Antimicrobial and Cell-Penetrating Peptides: Understanding Penetration for the Design of Novel Conjugate Antibiotics*. Antibiotics (Basel), 2022. 11(11).

$$(10 + 20 \times 5.222)/4 = \mathbf{28.61}$$



Reconstituting actomyosin-dependent mechanosensitive protein complexes in vitro, Corina Ciobanasu, Bruno Faivre and Christophe Le Clainche, *Nature Protocols*, 10, 75–89, 2015, citat in:

Tsai, F.C., et al., *Activated I-BAR IRSp53 clustering controls the formation of VASP-actin-based membrane protrusions*. *Sci Adv*, 2022. **8**(41): p. eabp8677.

$(10 + 20 \times 14.980)/3 = 103.2$

Actomyosin-dependent formation of the mechanosensitive talin–vinculin complex reinforces actin anchoring, Corina Ciobanasu, Bruno Faivre and Christophe Le Clainche, *Nature Communications*, 5: 3095, 2014, DOI: 10.1038/ncomms4095 citat in:

Thanuthanakhun, N., M.H. Kim, and M. Kino-Oka, *Cell Behavioral Dynamics as a Cue in Optimizing Culture Stabilization in the Bioprocessing of Pluripotent Stem Cells*. *Bioengineering* (Basel), 2022. **9**(11).

$(10 + 20 \times 5.046)/3 = 36.973$

Le Coq, J., et al., *New insights into FAK structure and function in focal adhesions*. *J Cell Sci*, 2022. **135**(20).

$(10 + 20 \times 5.235)/3 = 38.233$

Kanchanawong, P. and D.A. Calderwood, *Organization, dynamics and mechanoregulation of integrin-mediated cell-ECM adhesions*. *Nat Rev Mol Cell Biol*, 2022.

$(10 + 20 \times 113.915)/3 = 762.767$

Rivera, A.D., et al., *Epidermal Growth Factor Pathway in the Age-Related Decline of Oligodendrocyte Regeneration*. *Front Cell Neurosci*, 2022. **16**: p. 838007.

$(10 + 20 \times 6.147)/3 = 44.313$

Marangio, A., et al., *The Study of the Extracellular Matrix in Chronic Inflammation: A Way to Prevent Cancer Initiation?* *Cancers* (Basel), 2022. **14**(23).

$(10 + 20 \times 6.575)/3 = 47.167$

Braeutigam, A., et al., *Generic self-stabilization mechanism for biomolecular adhesions under load*. *Nat Commun*, 2022. **13**(1): p. 2197.

$(10 + 20 \times 17.694)/3 = 121.293$

Aggregates of Nisin with Various Bactoprenol-containing Cell Wall Precursors Differ in Size and Membrane Permeation Capacity, K Scherer, I Wiedemann, C Ciobanasu, HG Sahl, U Kubitscheck, *Biochimica et Biophysica Acta (BBA)-Biomembranes* 1828 (11), 2013, 2628-2636, citat in:

Du, Y., et al., *Incorporation of Non-Canonical Amino Acids into Antimicrobial Peptides: Advances, Challenges, and Perspectives*. *Appl Environ Microbiol*, 2022: p. e0161722.

$(10 + 20 \times 5.005)/3 = 22.02$

Integrating actin dynamics, mechanotransduction and integrin activation: the multiple functions of actin binding proteins in focal adhesions, Corina Ciobanasu, B Faivre, C Le Clainche, *European journal of cell biology* 92 (10-11), 2013, 339-348, citat in:

Wei, J., et al., *The role of matrix stiffness in cancer stromal cell fate and targeting therapeutic strategies*. *Acta Biomater*, 2022. **150**: p. 34-47.

$(10 + 20 \times 10.633)/3 = 74.22$

Rasmussen, M.K., H. Mestre, and M. Nedergaard, *Fluid transport in the brain*. *Physiol Rev*, 2022. **102**(2): p. 1025-1151.

$(10 + 20 \times 46.513)/3 = 313.42$

Paradiso, F., et al., *Studying Activated Fibroblast Phenotypes and Fibrosis-Linked Mechanosensing Using 3D Biomimetic Models*. *Macromol Biosci*, 2022. **22**(4): p. e2100450

$(10 + 20 \times 5.859)/3 = 42.393$



Actin dynamics associated with focal adhesions. Corina Ciobanasu, B Faivre, C Le Clainche, *IJCB*, 2012 citat in:

Huang, S., et al., *Promotion of Melanoma Cell Proliferation by Cyclic Straining through Regulatory Morphogenesis*. *Int J Mol Sci*, 2022. **23**(19).

$(10 + 20 \times 6.208)/3 = 44.72$

Narasimhan, S., W.R. Holmes, and I. Kaverina, *Merging of ventral fibers at adhesions drives the remodeling of cellular contractile systems in fibroblasts*. *Cytoskeleton (Hoboken)*, 2022.

$(10 + 20 \times 2.844)/3 = 22.293$

Ramella, M., L.M. Ribolla, and I. de Curtis, *Liquid-Liquid Phase Separation at the Plasma Membrane-Cytosol Interface: Common Players in Adhesion, Motility, and Synaptic Function*. *J Mol Biol*, 2022. **434**(1): p. 167228

$(10 + 20 \times 6.151)/3 = 44.34$

Cell penetrating HIV1 TAT peptides can generate pores in model membranes, Corina Ciobanasu, Jan Peter Siebrasse and Ulrich Kubitscheck, *Biophysical Journal*, 99 (1) 2010, 153-162, citat in:

Porosk, L. and U. Langel, *Approaches for evaluation of novel CPP-based cargo delivery systems*. *Front Pharmacol*, 2022. **13**: p. 1056467.

$(10 + 20 \times 5.988)/3 = 43.253$

Alkhashrom, S., et al., *A Peptide Inhibitor of the Human Cytomegalovirus Core Nuclear Egress Complex*. *Pharmaceuticals (Basel)*, 2022. **15**(9).

$(10 + 20 \times 5.215)/3 = 38.1$

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19. Participări la manifestări științifice

Internaționale

1. **Corina Ciobanasu**, Tudor Luchian, “*Emerging factors for improved cell membrane permeabilization with membrane active peptides*”, Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, SPAIN, 20-24.07. 2019

2. **Corina Ciobanasu** and A. Apetrei, “The tumor homing peptide tLyp shows penetrating properties in model membranes”, 19th IUPAB and 11th EBSA Congress, Edinburgh, Scotland, 16–20 July, 2017

3. I. S. Dragomir, **C. Ciobănașu**, A. Apetrei and T. Luchian, “*Interaction of tumor-homing peptides with lipid membranes*”, 12th International Conference on Processes in Isotopes and Molecules (PIM 2019) , Cluj-Napoca, Romania

4. **C. Ciobănașu**, Satellite Workshop in the frame of PIM 2019 “Emerging molecular technologies based on micro and nano-structured systems with biomedical applications”, 23-28.09.2019, Cluj-Napoca, Romania

5. **Corina Ciobanasu**, Isabela Dragomir, Aurelia Apetrei, Tudor Luchian, *Penetrating Properties of LyP-1 Homing Peptides in Giant Unilamellar Vesicles* , **Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences- IC-ANMBES 2018**, 23 - 25 May, 2018 Brasov, Romania, **poster**

6. Christophe Le Clainche, **Corina Ciobanasu** and Bruno Faivre, “*In vitro* reconstitution of the actomyosin-dependent talin-vinculin complex reveals a mechanosensitive reinforcement of actin anchoring, Building the Cell-1st International Meeting, Paris, 24-26.09.2014, France (talk)

7. Christophe Le Clainche, **Corina Ciobanasu** and Bruno Faivre, “*In vitro* reconstitution of focal adhesion mechanosensitivity controlled by the self-assembly of actomyosin cables”, Fibronectin, Integrins & Related Molecules, Gordon Research Conferences, February 10-15, 2013, Ventura Beach Marriott, Ventura, CA, SUA (**prezentare orală**)



8. **Corina Ciobanasu**, Bruno Faivre and Christophe Le Clainche, „Actin dynamics and mechano-sensitivity associated with focal adhesions: a biomimetic approach”, LEBS Seminar, 04.12.2012, Gif-sur Yvette, France (**prezentare orală**)
9. Christophe Le Clainche, **Corina Ciobanasu** and Bruno Faivre, “In vitro reconstitution of acto-myosin contractility and mechanosensitivity associated with cell matrix adhesion”, International Meeting of the German Society for Cell Biology (DGZ) on Actin Dynamics, 12-15.09.2012, Regensburg, Germany (**prezentare orală**)
10. **Corina Ciobanasu**, Bruno Faivre and Christophe Le Clainche, “In vitro reconstitution of auto-organized acto-myosin cables associated with mechano-sensitive focal adhesions”, Cell Adhesion Meeting, 24-25 May 2012, Bordeaux, France (**poster**)
11. Christophe Le Clainche, **Corina Ciobanasu** and Bruno Faivre, “Actin dynamics and mechano-sensitivity associated with focal adhesions”, Cell Adhesion Meeting, 24-25 May 2012, Bordeaux, France (**prezentare orală**)
12. Katharina Scherer, Imke Wiedemann, **Corina Ciobanasu**, Hans-Georg Sahl, Ulrich Kubitscheck, „Fluorescence Microscopy Monitoring of Nisin Binding To Bactoprenol Bound Cell Wall Precursors”, 56th Annual Meeting of the Biophysical Society, 25-29.02.2012, San Diego, California, SUA (**poster**)
13. K. Scherer, C. Wallner, **C. Ciobanasu**, K. Lohner, I. Wiedemann, U. Kubitscheck, „Imaging bioactive peptides with model membranes”, Focus on microscopy, 17-20.04.2011, Konstanz, Germany (**poster**)
14. **Corina Ciobanasu** and Ulrich Kubitscheck, “Single Molecule Microscopy- an Attractive Tool for Characterization of Nanoenvironments”, 4th International Seminar on Modern Polymeric Materials for Environmental Applications, 1–3 December 2010, Kraków, Poland (talk)
15. **Corina Ciobanasu**, Membrane perforating bioactive peptides, New Trends in Biophotonics Seminar, 24.06.2010, Bonn, Germany (**prezentare orală**)
16. **Corina Ciobanasu**, Katharina Scherer and Ulrich Kubitscheck, Peptide-membrane interactions analyzed by confocal and single molecule microscopy, 455th WE-Heraeus-Seminar, 11-14.04.2010, Bad Honnef, Germany (**poster și scurtă prezentare orală**)
17. **Corina Ciobanasu** and Ulrich Kubitscheck, HIV1 TAT peptides form pores in giant unilamellar vesicles, XII EPI- Iberian Peptide Meeting, 10-12.02.2010, Lisbon, Portugal (**prezentare orală**)
18. Katharina Scherer, **Corina Ciobanasu**, Karl Lohner and Ulrich Kubitscheck, Dynamics of single LL-37 peptides on model membranes, XII EPI- Iberian Peptide Meeting, 10-12.02.2010, Lisbon, Portugal (**prezentare orală**)
19. M. Hermanowska, G. Bijelic, **C. Ciobanasu**, U. Kubitscheck, P. Claesson, B. Klösgen, On the Effect of Surface Confined Charge Densities in Lipid Mono- and Bilayers, 22nd Conference of the European Colloid and Interface Society, 31.08-5.09.2008, Krakow, Poland (**poster**)
20. **Corina Ciobanasu**, TAT peptides playing games with membranes, Interdisciplinary Seminar: New Trends in Biophotonics, 23.07.2009, Bonn (**prezentare orală**)
21. **Corina Ciobanasu** and Ulrich Kubitscheck, Interaction of Single Bioactive TAT Peptides with Model Membranes, BIOCONTROL Annual Meeting, 1-2.07.2009, Bad Honnef, Germany (**prezentare orală**)
22. **Corina Ciobanasu** and Ulrich Kubitscheck, HIV1 TAT Peptide Translocation in Giant Unilamellar Vesicles, Conference Focus on microscopy, 05-08.04.2009, Krakow, Poland (**prezentare orală**)
23. **Corina Ciobanasu**, Enno Harms, and Ulrich Kubitscheck, Interaction of Single Bioactive TAT Peptides with Model Membranes, 14th International Workshop on „Single Molecule Spectroscopy and Ultrasensitive Analysis in Life Sciences“, Picoquant Meeting, September 17 - 19, 2008, Berlin (**prezentare orală**)
24. **Corina Ciobanasu** and Ulrich Kubitscheck, BIOCONTROL 2nd General Assembly, WP 3: Single bioactive peptides at artificial and biological membranes-Tat peptides, 9.06.2008, Aarhus, Denmark (**prezentare orală**)
25. **Corina Ciobanasu**, “Single bioactive Tat peptides at artificial membranes”, Interdisciplinary Seminar: New spectroscopic methods in Biophysical Chemistry, 14.02.2008, Bonn, Germany (**prezentare orală**)
26. **Corina Ciobanasu**, Single bioactive Tat peptides at artificial and biological membranes, BIOCONTROL ESR Meeting, 21st October 2007, Villigen, Switzerland (**prezentare orală**)
27. Alina Murariu, K. Pielichowski, S. Ciovea, C. Murariu, I. Pielichowski, Th. Malutan, **Corina Mocanu**, J. Pielichowski, J. Polaczek (2006), „Pressure and Water Absorption Effects in Drug Delivery Matrix Based on Cellulose-Poly(Aspartic Acid) Composite Material”, 2nd International Seminar on Modern Polymeric Materials for Environmental Applications, 23–25.03.2006, Kraków, Poland (**poster**)



28. Corina Mocanu, K. Pielichowski, A. Murariu, S. Ciovița, J. Pielichowski, J. Polaczek (2004), “Cellulose Dissolution in LiCl/DMAc System- an Important Step in Cellulose Functionalization Towards Biodegradable Composites”, 1st International Seminar on Modern Polymeric Materials for Environmental Applications, 1–4.12.2004, Kraków, Poland (**poster**)

29. A. Murariu, K. Pielichowski, **Corina Mocanu**, S. Ciovița, J. Pielichowski, J. Polaczek, (2004) “Implantable Drug Delivery System Based on Cellulose-Poly(Aspartic Acid) Composite Materials”, 1st International Seminar on Modern Polymeric Materials for Environmental Applications, 1–4.12.2004, Kraków, Poland (**prezentare orală**)

30. Corina Mocanu, S. Ciovița, A. Murariu, “Homogeneous Systems for Cellulose Functionalization- Present and Perspectives”, “Environmentally friendly technologies for the pulp and paper industry- 4-th International Symposium, September 5-7, 2006 Braila, Romania (**prezentare orală**)

Nationale

1. Alina Asandei, **Corina Ciobănașu**, Irina Șchiopu, Isabela Dragomir, *Aplicații din domeniul Biofizicii*, Zilele Universității „Alexandru Ioan Cuza”, Iași, 25-31.10.2022

2. Isabela S. Dragomir, Alina Asandei, **Corina Ciobănașu**, Irina Șchiopu, Ioana C. Bucătaru, Tudor Luchian, “*Studiul interacțiunilor dintre molecule de interes biologic și sistemul lipido-proteic model*”, Conferința doctoranzilor din Consorțiul Universitar Iași, 2020

3. Corina Ciobănașu, XVth National Conference of Biophysics, *The N-terminal of Talin Inhibits Actin Assembly*, 7-10 September 2018, Bucharest, Romania, (**prezentare orală**)

4. Isabela Dragomir, **Corina Ciobănașu**, Aurelia Apetrei, Studiul influenței compoziției lipidice a membranelor biomimetice asupra mobilității peptidei antimicrobiene LL-37 prin microscopie de fluorescență la nivel de singură moleculă, Conferința Națională FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE XLVI, 20 Mai, Iași, 2017, prezentare

5. Diana Teodorescu-Perijoc, Cezar Murgoci, **Corina Ciobănașu**, Aurelia Apetrei, Determinarea coeficientului de difuzie al lipidelor membranare prin microscopie de fluorescență, utilizând tehnica FRAP (fluorescence recovery after photobleaching), Conferința Națională FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE XLVI, 20 Mai, Iași, 2017, poster

6. Corina Ciobănașu and Ulrich Kubitschek, The N-terminal α -helix of the antimicrobial peptide NKCS, a mutant of NK-2 is a determinant of pore formation in bacterial membranes, a 14-a Conferința Națională de Biofizică, 2-4.06, Cluj-Napoca, 2016, poster

7. Isabela Dragomir, Aurelia Apetrei, **Corina Ciobănașu**, Microscopia de fluorescență la nivel de singură moleculă aplicată în studiul peptidelor membranare active, a XLV-a Conferința Națională- FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE, 13-14.05, Iași, 2016, prezentare

8. Isabela Dragomir, Diana Teodorescu-Perijoc, Aurelia Apetrei, **Corina Ciobănașu**, Studiul interacțiunii dintre peptida antimicrobiană LL-37 și membrane biomimetice prin microscopie de fluorescență la nivel de singură moleculă, a XLV-a Conferința Națională- FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE, 13-14.05, Iași, 2016, poster

9. Corina Ciobănașu, Bruno Faivre and Christophe Le Clainche, “A biomimetic system for reconstitution of actomyosin -dependent mechanosensitive protein complexes”, A XIII - a Conferința Națională de Biofizică, 4-6 Iunie 2015, Timișoara, Romania

10. Dana Simiuc, **Corina Ciobănașu**, Aurelia Apetrei, Tudor Luchian, “*Investigarea interacțiunii dintre peptida magainina 2 și vezicule unilamelare gigant cu ajutorul microscopiei confocale*”, A XLIV-a Conferința Națională FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE, 16.05.2015, Iași, Romania

11. Raoul-Vasile Lupusoru, Daniela Pricop, **Corina Ciobănașu**, Liliana Mititelu-Tartau, Doina Butcovan, Magda Bădescu, „*Gold Nanoparticles Functionalized with cell penetrating peptides: preliminary data and perspectives*”, The National Congress of the Romanian Pathophysiology Society with international participation New and Old in Pathophysiology: An Integrated Approach in Education and Research, 7 – 10 mai 2015, Iași, Romania

12. Tatiana Todorciuc, Valentin I. Popa, **Corina Mocanu**, “Some Aspects Concerning the Effects of Polyphenolic Complexes on Metabolic Reactions”, Days of Chemical Engineering Faculty, ZFIC3, January 18-19, 2007, Iași,



Romania (talk)

13. Corina Mocanu, S. Cioica, A. Murariu, “Homogeneous Systems for Cellulose Functionalization- actual state and Perspectives”, “Environmentally friendly technologies for the pulp and paper industry- 4-th International Symposium, September 5-7, 2006 Braila, Romania (talk)

14. Corina Mocanu, S. Cioica, Th. Malutan, Alina Murariu, K. Pielichowski, „Preparation of a Biodegradable Blend Based on Cellulose and Poly(aspartic acid)”, Days of Chemical Engineering Faculty, ZFIC2, November 24-25, 2005, Iasi, Romania (talk)

15. Alina Murariu, S. Cioica, **Corina Mocanu**, C. Murariu, K. Pielichowski, Th. Malutan, „Microwave Irradiation –A Novel Approach for Synthesis of Biopolymeric Materials” Days of Chemical Engineering Faculty, ZFIC2, November 24-25, 2005, Iasi, Romania (talk)