

Lista de Lucrări
CS III dr. Vasilica Corina CIOBĂNAȘU
ICI UAIC- Departamentul de Științe Exacte și Științe ale Naturii

10 publicații relevante pentru realizările profesionale proprii

1. **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>, FI 17.694, 121 citari (GS), 76 citari (WoS)
2. **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>, FI 17.021, 22 citari (GS), 12 citari (WoS)
3. **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>, FI 6.525
4. **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>, FI 6.02, 157 citari (GS), 87 citari (WoS)
5. **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, <https://doi.org/10.1007/s00232-017-9999-1>, FI 5.485, 22 citari (GS), 12 citari (WoS)
6. **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>, FI 5.016, 5 citari (GS), 5 citari (WoS)

7. **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>, FI 4.927, 12 citari (GS), 11 citari (WoS)
8. **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>, FI 3.699, 125 citari (GS), 88 citari (WoS)
9. **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>, FI 3.321, 46 citari (GS), 35 citari (WoS)
10. **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, doi: 10.1002/psc.3145, <https://doi.org/10.1002/psc.3145>, FI 2.408, 17 citari (GS), 12 citari (WoS)

Teza de doctorat

„Mobility and Translocation of TAT Peptides in Model Membranes”, 2010, ”Institute of Physical and Theoretical Chemistry”, Rheinische Friedrich-Wilhelms University Bonn, Germany, <https://hdl.handle.net/20.500.11811/4659>

Carti si capitole in carti

Ciobanasu Corina, and Kubitscheck U., *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. ISBN: 978-3-527-41159-7, 2020, <https://doi.org/10.1002/9783527680597.ch55>

Articole/studii publicate *in extenso*, in reviste din circuitul stiintific international

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

2. **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>
3. **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>.
4. **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](https://doi.org/10.1074/jbc.M117.808204)
5. 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>
6. **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>
7. **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>
8. **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>
9. 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>
10. **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>
11. **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>

12. **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>
13. 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

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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>

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](https://doi.org/10.14800/mmc.910)

Articole științifice publicate *in extenso* în reviste indexate BDI

C Mocanu, S Ciofica, 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

Alte lucrari si contributii stiintifice

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, <https://doi.org/10.1007/s00249-019-01373-4>

Corina Ciobanasu, Aurelia Apetrei, “The tumor homing peptide tLyp shows penetrating properties in model membranes”, *Eur Biophys J* (2017) 46 (Suppl 1):S43–S402, <https://doi.org/10.1007/s00249-017-1222-x>

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

Corina Ciobanasu and Ulrich Kubitscheck, (2010), „Single Molecule Microscopy- an Attractive Tool for Characterization of Nanoenvironments”, *Mod. Polym. Mat. Env. Appl.*, **4**:47-53

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

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

Corina Mocanu, S. Ciofica, K. Pielichowski, Alina Murariu, J. Pielichowski, J. Polaczek (2006), „Synthesis of Phosphorylated Cellulose for Biomaterials Applications”, Mod. Polym. Mat. Env. Appl., **2**: 109-112

Alina Murariu, K. Pielichowski, S. Ciofica, 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”, Mod. Polym. Mat. Env. Appl., **2**: 113-116

Corina Mocanu, K. Pielichowski, A. Murariu, S.Ciofica, J. Pielichowski, J. Polaczek (2004), “Cellulose Dissolution in LiCl/DMAc System- an Important Step in Cellulose Functionalization Towards Biodegradable Composites”, Mod. Polym. Mat. Env. Appl., **1**:101-104,

A. Murariu, K. Pielichowski, **Corina Mocanu**, S.Ciofica, J. Pielichowski, J. Polaczek, (2004) “Implantable Drug Delivery System Based on Cellulose-Poly(Aspartic Acid) Composite Materials”, Mod. Polym. Mat. Env. Appl., **1**:105-108

Corina Mocanu, Sorin Ciofica, “Pulp Dissolving. Present status and future. I Pulp real solvents”, *Celuloza si hartie*, **57** (1), 27-31, 2008

Corina Mocanu, Sorin Ciofica, “Pulp Dissolving. Present status and future. II Pulp reactive solvents”, *Celuloza si hartie*, **57**(1), 41-45, 2008

Th. Măluțan, **Corina Mocanu**, " Synthesis and characterization of phosphorylated cellulose ", *Celuloza si hartie*, **56**(1), 38-43, 2007

Corina Mocanu, S.Ciofica, A. Murariu, K. Pielichowski, “Poly(Aspartic Acid)- a Biodegradable Polymer with high possibilities for Environmentally Friendly Application”, *Societatea Româna a Chimistilor Cosmetologi*, 2006, **6**(1), 42-60,

A. Murariu, K. Pielichowski, S.Ciofica, J. Pielichowski, **Corina Mocanu**, J. Polaczek, E. Tylek, “Microwave Irradiation as a Novel Alternative for Poly(Aspartic Acid) Synthesis”, *Societatea Româna a Chimistilor Cosmetologi*, 2005, **5**(2), 34-43