



ANEXA I

Dr. Alina ASANDEI

FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	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 2310.863
	2. Articole științifice publicate <i>in extenso</i> în reviste indexate fără factor de impact	20 puncte / număr autori
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte / număr autori 5
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori
		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
		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
		contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare 53
		contracte naționale – director: 50 puncte pentru fiecare 500.000 lei 55



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare 117.32
	10. Contracte de cercetare în mediul de afaceri și sectorul public	organizații internaționale: 100 puncte pentru fiecare
		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 18591.089
		reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare 15.897
		monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare
		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
		țară: 10 puncte pentru fiecare activitate
	14. Profesor/cercetător invitat la universități/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate
		țară: 10 puncte pentru fiecare activitate
	15. Editor/Membru în <i>Editorial Board & Advisory Board</i>	reviste cotate <i>Web of Science</i> : editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă
		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 selecție	100 puncte / categorie / număr persoane
	17. Premii ale Academiei Române	50 puncte / categorie / număr persoane
	18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr persoane 40
	19. Participări la manifestări științifice	internaționale: președinte comitet organizare/consiliu științific, 25 puncte



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		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 250
		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 40
II. ACTIVITATEA DIDACTICĂ	1. Tratatate și manuale universitare	30 puncte la 100 pagini / număr de autori 49.2
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	40 puncte pentru fiecare activitate
	3. Materiale suport curs, seminar, lucrări practice și programe	10 puncte pentru fiecare activitate
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate

Punctaj Total = 21527.369

**Justificare punctaj la FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII:****I. 1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact [(60 puncte x factor de impact + 25) / număr autori]**

1. Mereuta, L; Asandei, A; Andricioaei, I; Park, J; Park, Y; Luchian, T. Considerable slowdown of short DNA fragment translocation across a protein nanopore using pH-induced generation of enthalpic traps inside the permeation pathway, *NANOSCALE* 2023, 15, 14754-14763.

IF = 6.7, nr autori = 6, punctaj = 71.166

2. Mereuta, L; Asandei, A; Schiopu, I; Park, J; Park, Y; Luchian, T. Synthetic Receptor Based on a Peptide Antibiotic-Functionalized Chimera for Hybridization-Based Polynucleotide Detection, *ACS APPLIED MATERIALS & INTERFACES* 2023, 15, 33159-33168

IF = 9.5, nr autori = 6, punctaj = 99.166

3. Bucataru, IC; Dragomir, I; Asandei, A; Pantazica, AM; Branza-Nichita, N; Park, Y; Luchian, T. Probing the Hepatitis B Virus E-Antigen with a Nanopore Sensor Based on Collisional Events Analysis, *BIOSENSORS-BASEL* 2022, 12, 596.

IF = 5.4, nr autori = 7, punctaj = 49.857

4. Mereuta, L; Asandei, A; Dragomir, I; Park, J; Park, Y; Luchian, T. A Nanopore Sensor for Multiplexed Detection of Short Polynucleotides Based on Length-Variable, Poly-Arginine-Conjugated Peptide Nucleic Acids, *Analytical Chemistry*, 2022, 94, 8774-8782.

IF = 7.4, nr autori = 7, punctaj = 78.166

5. Asandei, A; Mereuta, L; Bucataru, IC; Park, Y; Luchian, T. A Single-Molecule Insight into the Ionic Strength-dependent, Cationic Peptide Nucleic Acids-Oligonucleotides Interactions, *CHEMISTRY-AN ASIAN JOURNAL*, 2022, 17, e202200261.

IF = 4.1, nr autori = 5, punctaj = 54.2

6. Asandei A., Mereuta L., Schiopu I., Park Y., Luchian T. Teaching an old dog new tricks: a lipid membrane-based electric immunosensor for real-time probing of the spike S1 protein subunit from SARS-CoV-2, *Proteomics* 2021, e2100047.

IF = 3.984, nr autori = 5, punctaj = 52.808

7. Dragomir, I.S., Asandei, A., Schiopu, I, Bucataru, I.C., Mereuta, L., Luchian, T. The Nanopore-Tweezing-Based, Targeted Detection of Nucleobases on Short Functionalized Peptide Nucleic Acid Sequences, *Polymers* 2021, 13 (8), 1210.

IF = 4.329, nr autori = 6, punctaj = 47.456

8. Schiopu I., Asandei A., Mereuta L., Dragomir I.S., Bucataru I.C., Luchian T. Single-Molecule Detection And Manipulation With Biological Nanopores, *Studia Chimica* 2021.

IF = 0.447, nr autori = 6, punctaj = 8.636

9. Luchian, T.; Mereuta, L.; Park, Y.; Asandei, A.; Schiopu, I. Single-molecule, hybridization-based strategies for short nucleic acids detection and recognition with nanopores, *Proteomics* 2021, e2100046

IF = 3.984, nr autori = 5, punctaj = 52.808

10. Asandei, Alina; Di Muccio, Giovanni; Schiopu, Irina; Mereuta, Loredana; Dragomir, Isabela S.; Chinappi, Mauro; Luchian, Tudor, Nanopore-Based Protein Sequencing Using Biopores: Current Achievements and Open Challenges, *SMALL METHODS*, 4 (11), (2020).

IF = 12.13, nr autori = 7, Punctaj = 107.542

11. Ko, Su Jin; Park, Eunji; Asandei, Alina; Choi, Jee-Young; Lee, Seung-Chul; Seo, Chang Ho; Luchian, Tudor; Park, Yoonkyung, Bee venom-derived antimicrobial peptide melectin has broad-spectrum potency, cell selectivity, and salt-resistant properties *SCIENTIFIC REPORTS*, 10(1), (2020).

IF = 3.998, nr autori = 8, Punctaj = 33.11



12. Mereuta, Loredana*; Asandei, Alina*; Dragomir, Isabela S.; Bucataru, Ioana C.; Park, Jonggwan; Seo, Chang Ho; Park, Yoonkyung; Luchian, Tudor, Sequence-specific detection of single-stranded DNA with a gold nanoparticle-protein nanopore approach, *SCIENTIFIC REPORTS*, 10(1) 2020.
IF = 3.998, nr autori = 8, Punctaj = 33.11
13. Asandei, Alina*; Mereuta, Loredana*; Schiopu, Irina; Park, Jonggwan; Seo, Chang Ho; Park, Yoonkyung; Luchian, Tudor Non-Receptor-Mediated Lipid Membrane Permeabilization by the SARS-CoV-2 Spike Protein S1 Subunit, *ACS APPLIED MATERIALS & INTERFACES* 12(50) 55649 – 55658, (2020).
IF = 8.758, nr autori = 7, Punctaj = 78.64
14. Loredana Mereuta, Alina Asandei, Irina Schiopu, Yoonkyung Park, Tudor Luchian, Nanopore-Assisted, Sequence-Specific Detection and Single-Molecule Hybridization Analysis of Short, Single-Stranded DNAs, *Analytical Chemistry*, 2019, 91, 8630-8637.
IF = 6.042, nr autori = 5, Punctaj = 77.504
15. Alina Asandei, Loredana Mereuta, Jonggwan Park, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Non-Functionalized PNAs as Beacons for Nucleic Acids Detection in a Nanopore System, *ACS Sensors* 2019, 4, 1502-1507.
IF = 8.9, nr autori = 6, Punctaj = 93.16667
16. Luchian, T, Park Y, Asandei A, Schiopu I, Mereuta L, Apetrei A, Nanoscale Probing of Informational Polymers with Nanopores. Applications to Amyloidogenic Fragments, Peptides, and DNA-PNA Hybrids. *ACCOUNTS OF CHEMICAL RESEARCH* 2019, 52, 267-276
IF = 20.955, nr autori=6, Punctaj = 213.72
17. Alina Asandei, Dragomir Isabela S., Di Muccio Giovanni, Chinappi Mauro, Park Yoonkyung, Luchian Tudor. Single-Molecule Dynamics and Discrimination between Hydrophilic and Hydrophobic Amino Acids in Peptides, through Controllable, Stepwise Translocation across Nanopores. *Polymers* 10(8), 885, (2018).
IF = 2.935, nr autori = 6 , Punctaj = 33.516
18. Ciuca Andrei, Asandei Alina, Schiopu Irina, Apetrei Aurelia, Mereuta Loredana, Seo Chang Ho, Park Yoonkyung, Luchian Tudor. Single Molecule, Real-Time Dissecting of Peptide Nucleic Acids-DNA Duplexes with a Protein Nanopore Tweezer. *Anal. Chem.*, 90, 7682–7690, (2018).
IF = 6.042, nr autori = 8, Punctaj = 48.44
19. Alina Asandei, Schiopu Irina, Ciobanasu Corina, Park Yoonkyung, Luchian Tudor. If Squeezed, a Camel Passes Through the Eye of a Needle: Voltage-Mediated Stretching of Dendrimers Facilitates Passage Through a Nanopore. *J. Membr. Biol.* 251(3), 405-417, (2018).
IF = 1.638, nr autori = 5, Punctaj = 24.656
20. Alina Asandei, Aldo E Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian. Protein Nanopore-Based Discrimination Between Selected Neutral Amino Acids from Polypeptides. *Langmuir*, 33, 14451–14459 (2017).
IF = 3.833, nr autori = 5, Punctaj = 50.996
21. Alina Asandei, Andrei Ciuca, Aurelia Apetrei, Irina Schiopu, Loredana Mereuta, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Nanoscale Investigation of Generation 1 PAMAM Dendrimers Interaction with a Protein Nanopore. *Scientific Reports*, 7 (6167), (2017)
IF = 4.259, nr autori = 8, Punctaj = 35.067
22. Alina Asandei, Irina Schiopu, Mauro Chinappi, Chang Ho Seo, Yoonkyung Park, Tudor Luchian. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation. *Applied Materials & Interfaces* 8 (20), 13166-13179, (2016).
IF = 7.145, nr autori = 6, Punctaj = 75.616
23. Alina Asandei, Mauro Chinappi, Hee-Kyoung Kang, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores. *ACS Applied Materials & Interfaces* 7 (30), 16706-16714, (2015).
IF = 7.145, nr autori = 7, Punctaj = 64.814



24. Alina Asandei, Mauro Chinappi, Jong-kook Lee, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage controlled braking of polymer transport through nanometer-scale pores. *Scientific Reports*, 5 (10419), (2015)
IF = 5.228, nr autori = 7, Punctaj = 48.382
25. Loredana Mereuta, Alina Asandei, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, beta-Hairpin-like Peptides, through Single-Molecule Probing with Protein Nanopores. *ACS Applied Materials & Interfaces*, 6, (15), 13242-13256 (2014)
IF = 6.723, nr autori = 5, Punctaj = 85.676
26. Alina Asandei, Sorana Iftemi, Loredana Mereuta, Irina Schiopu, Tudor Luchian, Probing of Various Physiologically Relevant Metals: Amyloid-beta Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore, *Journal of Membrane Biology*, 247(6), 523-553 (2014)
IF = 2.457, nr autori = 5, Punctaj = 34.484
27. Loredana Mereuta, Mahua Roy, Alina Asandei, Jong Kook Lee, Yoonkyung Park, Ioan Andricioaei, Tudor Luchian. Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation, *Scientific Reports*, 4 (3885), (2014)
IF = 5.078, nr autori = 7, Punctaj = 47.097
28. Alina Asandei, Irina Schiopu, Sorana Iftemi, Loredana Mereuta, Tudor Luchian, Investigation of Cu²⁺ Binding to Human and Rat Amyloid Fragments A beta (1-16) with a Protein Nanopore, *Langmuir*, 29, (50), 15634-15642 (2013)
IF = 4.384, nr autori = 5, Punctaj = 57.608
29. Loredana Mereuta, Irina Schiopu, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide, *Langmuir*, 28, (49), 17079-17091 (2012)
IF = 4.187, nr autori = 6, Punctaj = 46.037
30. Elisa Campos, Alina Asandei, Colin E. McVey, Joao C. Dias, A. Sofia F. Oliveira, Claudio M. Soares, Tudor Luchian, Yann Astier, The Role of Lys147 in the Interaction between MPSA-Gold Nanoparticles and the alpha-Hemolysin Nanopore, *Langmuir*, 28, (44), 15643-15650, (2012)
IF = 4.187, nr autori = 8, Punctaj = 34.527
31. Loredana Mereuta, Alina Asandei, Tudor Luchian, Meet Me on the Other Side: Trans-Bilayer Modulation of a Model Voltage-Gated Ion Channel Activity by Membrane Electrostatics Asymmetry, *PLOS ONE*, 6 (9) e25276, (2011)
IF = 4.092, nr autori = 3, Punctaj = 90.173
32. Alina Asandei, Loredana Mereuta, Tudor Luchian, The Kinetics of Ampicillin Complexation by gamma-Cyclodextrins. A Single Molecule Approach, *Journal of Physical Chemistry B*, 115 (33), 10173-10181 (2011)
IF = 3.696, nr autori = 3, Punctaj = 82.253
33. Alina Asandei, Aurelia Apetrei, Tudor Luchian, Uni-molecular detection and quantification of selected beta-lactam antibiotics with a hybrid alpha-hemolysin protein pore, *Journal of Molecular Recognition*, 24 (2), 199-207 (2011)
IF = 2.286, nr autori = 3, Punctaj = 54.053
34. 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, *Langmuir*, 27 (1), 19-24 (2011)
IF = 4.269, nr autori = 5, Punctaj = 56.228
35. Apetrei Aurelia, Asandei Alina, Park Yoonkyung, Hahm Kyung-Soo, Winterhalter Mathias, Luchian Tudor Unimolecular study of the interaction between the outer membrane protein OmpF from *E. coli* and an analogue of the HP(2-20) antimicrobial peptide, *Journal of Bioenergetics and Biomembranes*, 42, 173-180, (2010)
IF = 4.015, nr autori = 6, Punctaj = 44.317
36. Alina Asandei, Tudor Luchian, Ion selectivity, transport properties and dynamics of amphotericin B channels studied over a wide range of acidity changes, *Colloids and Surfaces B: Biointerfaces*, 67, 99-106 (2008)
IF = 2.593, nr autori = 2, Punctaj = 90.29



37. Alina Asandei; Loredana Mereuta; Tudor Luchian, Influence of membrane potentials upon reversible protonation of acidic residues from the OmpF eyelet. Biophysical Chemistry, 135, 32-40, (2008)

IF = 2.362, nr autori = 3, Punctaj = 55.573

I.1: 2310.863

I. 3. Articole științifice publicate in extenso în reviste indexate BDI (15 puncte / număr autori)

1. Alina Asandei, Florin Pintilie, Tudor Luchian. Transport and Kinetic Features of Gold Functionalized Artificial Nanopores Romanian J. Biophys. 16, 273–281, 2006. Punctaj = 5 puncte

I.3: 5 puncte

I.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 – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor

- **Membru in proiectul international de cercetare** nr. 830/21.01.2015 (**România - Coreea**), cu titlul „Design and Development of Therapeutic AMPs against Epidemic Superbugs”/ perioada 2014-2024/ UAIC ~511.000 euro/7 membri

53 puncte

contracte naționale – director: 50 puncte pentru fiecare 500.000 lei

- **Responsabil proiect Partener P1** in cadrul proiectului nr. 98/2012 PN II PCCA1 *Tehnica imunochimica de analiza in faza omogena bazata pe nanoparticule functionalizate. Aplicatie pentru detectia contaminantului pesticidic acid 2,4-diclorofenoxiacetic din probe alimentare si de mediu* (HINANODET) (ramasi responsabil + 1 membru)

2015-2016/ 2.000.000 ron pe proiect/300.000 ron P1/101.470 ron

10 puncte

- **Director de Proiect** in cadrul proiectului **nr 45/2018 PN-III-P1-1.1-TE-2016-0508**, *Identificarea unimoleculară a domeniilor aminoacidice din structura primară a polipeptidelor folosind nanopori proteici// Nanopore-based, pattern recognition on the primary structure of polypeptides at uni-molecular level, (PEPREC)*

2018-2020/ 450.000 ron

45 puncte

Membru: contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei /numărul membrilor

1. ‘Investigații nanoscopice ale interacțiunilor existente între biomembrane, toxine bacteriene și proteine implicate în transferul unor agenți antibacterieni prin biomembrane’, CEEX (CERES) nr. 239/2006; perioada 2006-2008

429.237 ron / 4 membri echipa Coordonator

10.73 puncte

2. ‘Caracterizarea moleculara a mecanismelor de acțiune a peptidelor antimicrobiene și predicția *de novo* a unor structuri moleculare cu potențial antimicrobian sporit’, PN II nr. 61-16/2007(ANTIMPEP); perioada 2007-2010



429.816 ron / 5 membri echipa Partener 2

8.59 puncte

3. ‘Elucidarea mecanismelor de interacțiune a unor peptide citotoxice selectate cu celule tumorale, și optimizarea proprietăților lor anti-tumorale’, PN II nr. 62061/2008(PEPCITOTUM); perioada 2008-2011

400.000 ron / 5 membri echipa Coordonator

8 puncte

4. Ion sensing and separation through modified cyclic peptides, cyclodextrins and protein pores/ Detecția și separarea ionică prin intermediul peptidelor ciclice, al ciclodextrinelor și al porilor proteici, PN II IDEI PCCE nr.1/2012 (BIOSENS); perioada 2012-2015;

1.200.000 ron/ 5 membri echipa Coordonator

24 puncte

5. Generarea și investigarea unor noi peptide antimicrobiene, cu dimensiune redusă. Corelarea structurii peptidelor cu funcția lor, Rational design and generation of synthetic, short antimicrobial peptides. Linking structure to function (BIOPEP), PN II PCCA tip1 nr.123/2012; perioada 2012-2015

700.000 ron / 5 membri echipa Coordonator

14 puncte

6. Studiarea interacțiilor la nivel uni-molecular cu ajutorul pensetei cu nanopori. Aplicații în investigarea interacțiunilor mediate de metale în hibridizarea bazelor necomplementare din acizi nucleici // A nanopore tweezer-based approach for studying intermolecular interactions at uni-molecular level. Application to exploring metal-mediated, mismatched base pairs hybridization in nucleic acids”, acronim NANOTWEEZ, PN-III-P4-ID-PCE-2016-0026, nr. 33 /12.07.2017 (2017-2019)

850.000 ron / 4 membri

21.25 puncte

7. Detecția multiplex, cu sensibilitate și selectivitate moleculară, a unor miRNAs relevante fiziologic, cu ajutorul unor xeno acizi nucleici // Xeno nucleic acids-mediated, real-time multiplexed detection of disease relevant miRNAs, with single molecule sensitivity and selectivity, acronim RNANANODETECT, Cod proiect: PN-III-P4-ID-PCE-2020-0011, nr. 69/2021 (1.01.2021-31.12.2023)

1.198.032 ron / 6 membri

19.96 puncte

8. Detecția multiplă și ultra-senzitivă a fragmentelor scurte de acizi nucleici, utilizând nanoparticule de aur și nanopori proteici// Nanopore-based, ultra-sensitive and multivalent detection of short nucleic acid fragments, with functionalized gold nanoparticles/, acronim NANOSENSEDNA, cod proiect PN-III-P1-1.1-TE-2019-0037, nr. 18/ 2020 (1.09.2020 – 31.08.2022)

431.900 ron / 4 membri

10.79 puncte**I.9: 225.32 puncte**

I. 12. Citări și recenzii ale lucrărilor Științifice /reviste de specialitate din străinătate:(10 + 20 x factor de impact) / număr autori, pentru fiecare citare IF-factor impact (punctaj calculat)

Mereuta, L; Asandei, A; Schiopu, I; Park, J; Park, Y; Luchian, T. Synthetic Receptor Based on a Peptide Antibiotic-Functionalized Chimera for Hybridization-Based Polynucleotide Detection, ACS APPLIED MATERIALS & INTERFACES 2023, 15, 33159-33168

1. A Comparable Study of Single Stranded DNA Sensing Using Track-Etched Nanopore Sensors By: Kececi, K (Kececi, Kaan) CHEMISTRYSELECT, 2023, 8 Issue 37



FI = 2.1, puncte = 8.666

Bucataru, IC; Dragomir, I; Asandei, A; Pantazica, AM; Branza-Nichita, N; Park, Y; Luchian, T. Probing the Hepatitis B Virus E-Antigen with a Nanopore Sensor Based on Collisional Events Analysis, BIOSENSORS-BASEL 2022, 12, 596

1. Proactive Manipulation Techniques for Protein Transport at Confined Nanoscale Ma, CF (Ma Chaofan); Xu, W (Xu Wei); Liu, W (Liu Wei); Xu, CH (Xu Changhui); Sha, JJ ACTA CHIMICA SINICA, 2023, 81 (7), 857-868

FI = 2.5, puncte = 8.571

Mereuta, L; Asandei, A; Dragomir, I; Park, J; Park, Y; Luchian, T. A Nanopore Sensor for Multiplexed Detection of Short Polynucleotides Based on Length-Variable, Poly-Arginine-Conjugated Peptide Nucleic Acids, Analytical Chemistry, 2022, 94, 8774-8782.

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11. Amphotericin B ion channel mimetic sensor: A new type of potassium-selective sensor based on electrode-supported hybrid bilayer membranes By: Yue, Maozeng; Zhu, Xin; Zheng, Yanqiong; et al. Conference: 9th Spring Meeting of the International-Society-of- Electrochemistry Location: Turku, FINLAND MAY 08-11, 2011 ELECTROCHIMICA ACTA 73 Special Issue: SI, 78-85, 2012

IF = 5.116 (56.16)

12. Electrochemical Investigation on Permeability of Organic Acid Ions Through Amphotericin B Channels By: Yamauchi, Takafumi; Shirai, Osamu; Tsujimura, Seiya; et al. ELECTROCHEMISTRY 80(5), 315-317, 2012

IF = 1.074 (15.74)

13. Probing Amphotericin B Single Channel Activity by Membrane Dipole Modifiers By: Ostroumova, Olga S.; Efimova, Svetlana S.; Schagina, Ludmila V. PLOS ONE 7(1), e30261, 2012

IF = 2.766 (32.66)

14. Channels Formed by Amphotericin B Covalent Dimers Exhibit Rectification By: Hirano, Minako; Takeuchi, Yuko; Matsumori, Nobuaki; et al. JOURNAL OF MEMBRANE BIOLOGY 240(3), 159-164, 2011

IF = 1.638 (21.38)

15. Ceramide-mediated transport of chloride and bicarbonate across phospholipid membranes By: Harrell, William A., Jr.; Bergmeyer, Marie Liesel; Zavalij, Peter Y.; et al. CHEMICAL COMMUNICATIONS 46(22), 3950-3952, 2010

IF = 6.29 (67.9)

16. Studies of the Mechanism of Activation of the Volume-Regulated Anion Channel in Rat Pancreatic beta-Cells By: Best, Len; Brown, Peter D. JOURNAL OF MEMBRANE BIOLOGY 230(2), 83-91, 2009

IF = 1.638 (21.38)

Citări și recenzii ale lucrărilor Științifice /reviste de specialitate reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare

Transport and Kinetic Features of Gold-Functionalized Artificial Nanopores By: Alina Asandei, F. Pintilie, T. Luchian ROMANIAN J. BIOPHYS., Vol. 16, No. 4, P. 273-281, 2006

1. SiO₂@Au Core-Shell Nanospheres Self-Assemble To Form Colloidal Crystals That Can Be Sintered and Surface Modified To Produce pH-Controlled Membranes Patricia Anne A. Ignacio-de Leon and Ilya Zharov Langmuir, 29(11), 3749-3756 2013

IF = 4.269 (15.897)

**I. 12 = 18591.0896****I. 18. Alte premii naționale ale instituțiilor culturale**

1. Woman's Annual Science and Technology Distinction for young researchers UAIC STAGES - **20 puncte**
2. IUVENTAS SCIENTIAE - UAIC 2016 - **20 puncte**

I. 18 = 40**I. 19. Participări la manifestări științifice:**

Participări la manifestări științifice internaționale (raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate)

1. Mereuta L, **Asandei A**, and Luchian T, "*Influence of Membrane Electrostatics upon Reversible Protonation Reactions Taking Place on the Constriction Region of the Ompf Porin*", The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 – 31 May, 2008 (prezentare orală)
2. **Alina Asandei**, L. Mereuță, R. Chiriac, T. Luchian, The Influence of Superficial Charge and Ionic Strength Upon The Interaction Between B-Lactam Antibiotics and Ompf Porins, The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 – 31 May, 2008 (poster)
3. R. Chiriac, **A. Asandei**, L. Mereuță, T. Luchian, Rafts-Induced Modulation of Transport and Kinetic Properties of Certain Antimicrobial Peptides, The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 – 31 May, 2008 (lucrare poster)
4. **Alina Asandei**, Tudor Luchian Single molecule investigation of interaction between β -lactam antibiotic and the OmpF porin. The 8th International Conference on Physics of Advanced Materials (ICPAM-8) Romania, Iasi, June 04-07, 2008 (poster)
5. **Alina Asandei**, Tudor Luchian, Correlation between the electrical and mechanical properties of lipid membranes and the pore formation by magainin 2, IEEE, Romania, Iasi, 6-9 June 2009 (poster)
6. **Alina Asandei**, T. Luchian Effects of pH on transport properties and ionic selectivity of amphotericin B-induced channels 7th EBSA European Biophysics Congress, Genoa, Italy, 11-15 July, 2009, (poster)
7. A. Apetrei, **Alina Asandei**, Y. Park, K.-S. Hahm, M. Winterhalter, T. 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, AMP 2010 - Joint Australia-Croatia Workshop on Antimicrobial Peptides 8-13 Aug 2010, Split, Croatia (poster – **best poster prize**)
8. **Alina Asandei**, Aurelia Apetrei, Tudor Luchian, α hemolysin used as a stochastic sensor to unravel CH- π molecular interactions, Gordon Research Conference on Antimicrobial Peptides, May 15, 2011 - May 20, 2011, Il Ciocco, Lucca (Barga), Italy (poster)
9. T. Luchian, A. Apetrei, **A. Asandei**, L. Mereuta, *Interrogation of single-molecule chemistry with protein nanopores*, International conference "Processes in isotopes and molecules 2011, September 29- october 01, Cluj-Napoca, Romania (prezentare orală)
10. **A. Asandei**, L. Mereuta, Tudor Luchian, "*A single molecule approach of the interaction between ampicillin and a hybrid α -haemolysin protein pore*" „International Conference on Global Research and Education, interAcademia 2011, 26-29 September 2011, Sucevita, Romania (lucrare poster)



11. **A. Asandei**, L. Mereuta, Tudor Luchian, “*A single molecule approach of the interaction between ampicillin and a hybrid α -haemolysin protein pore*” „International Conference on Global Research and Education, interAcademia 2011, 26-29 September 2011, Sucevita, Romania (prezentare orală)
12. **Alina Asandei**, Aurelia Apetrei, and Tudor Luchian, Studying peptide-protein interactions in a biological nanoreactor, Third International Symposium on Antimicrobial Peptides 13-15 iunie 2012, Lille, Franta (poster).
13. **Alina Asandei**, Aurelia Apetrei, and Tudor Luchian, Single-channel investigation of the electrical and structural features that guide peptide translocation through biological nanopores, The 8th General Conference of Balkan Physical Union, 5-10 July 2012, Constanța, România (poster)
14. Sorana Iftemi, **Alina Asandei**, Tudor Luchian, Molecular structure changes of A β 1-16 peptide induce by transition metals 9th European Biophysics Congress EBSA Lisbon, Portugal 13-17 July 2013 (Poster)
15. Irina Schiopu, Loredana Mereuta, **Alina Asandei**, Tudor Luchian *Copper (II) binding to a histidine - containing chimera peptide: a single protein nanopore study* ESF-FEBS Conference on Biological Surfaces and Interfaces, 29 iunie - 6 iulie **2013**, San Feliu de Guixols, Cataloni, Spania (poster).
16. Tudor Luchian, Loredana Mereuta, Irina Schiopu, **Alina Asandei**, Sorana Iftemi and Aurelia Apetrei, Nanoscopic Interrogation of Molecular Interactions with Protein Nanopores, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13th-15th, **2014**, Brasov, Romania (**invited keynote presentation**)
17. Irina Schiopu, **Alina Asandei**, Sorana Iftemi, Loredana Mereuta, Liliana Chiribasa, Tudor Luchian, Single-Molecule Probing of Cu²⁺ Induced Folding on Human versus Rat Amyloid A β (1-16) Fragments, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13th-15th, **2014**, Brasov, Romania (**poster presentation**)
18. Loredana Mereuta, **Alina Asandei**, Daniela Ciumac, Tudor Luchian, Different Steps in Translocation of Peptides through a Protein Nanopore, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES **2014**, June 13th-15th, 2014, Brasov, Romania (**poster presentation**)
19. **Alina Asandei**, Sorana Iftemi, Loredana Mereuta, Irina Schiopu and Tudor Luchian, Investigating the Affinity of Various Physiologically Relevant Metals to Human A β (1-16) Peptides via Nanopore Sensing Techniques, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES **2014**, June 13th-15th, 2014, Brasov, Romania (**poster presentation**)
20. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Single-molecule investigation of peptide conformational changes with a protein nanopore, Gordon Research Conferences frontiers of science - Membrane Protein Folding, 21-26 Iunie, 2015, Boston, SUA, (**poster presentation**)
21. **Alina Asandei**, Mauro Chinappi, Hee-Kyoung Kang, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, pH-Dependent Interaction of Asymmetrically Charged Peptides with a Protein Nanopore, The 41st FEBS Congress, 3 – 8 Septembrie, 2016, Ephesus / Kuşadası, Turcia, (**poster presentation**)
22. Andrei Ciucă, **Alina Asandei**, Aurelia Apetrei, Irina Șchiopu, Loredana Mereuță, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Uni-molecular study of the pH- and salt-dependent PAMAM dendrimers- α -hemolysin nanopore interactions, 19th IUPAB congress and 11th EBSA congress, July 16-20, Edinburgh, UK 2017 (**poster presentation**)
23. Izabela Dragomir, **Alina Asandei**, Tudor Luchian, Discriminating between Selected Neutral Aminoacids Flanked by Segments of Oppositely Charged Aminoacids Using a Protein Nanopore “IC-ANMBES 2018” 21-23 MAI 2018 Brasov, Romania



24. **Alina Asandei**, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian Readout of Peptides Primary Structure at Nanoscale, Nanofluidics in physics and biology Institut Français de l'Education" on the ENS de Lyon Campus 9-12 July 2018 Lyon France (poster)
25. Mauro Chinappi, **Alina Asandei**, Fabio Cecconi, Tudor Luchian Capture and traslocation control of molecules inside nanopores Nanofluidics in physics and biology Institut Français de l'Education" on the ENS de Lyon Campus 9-12 July 2018 Lyon France (**prezentare orală**)

250 puncte

Participări la manifestări științifice naționale (raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate):

1. **Alina Asandei**, Pintilie, F., Luchian, T. „Characterisation of transport processes through L-cysteine functionalized nanopores”, FTEM Conference , Romania, Iasi, May 2006 (poster - **premiul I**)
2. **Alina Asandei**, Roxana Chiriac, Tudor Luchian, Artificially designed nanopores with pH-dependent, transport and kinetic features, The 5th International Conference on Global Research and Education, Inter-Academia, Romania, Iasi, 25-28 September 2006 (poster)
3. **Alina Asandei**, Roxana Chiriac, Loredana Mereuta, Tudor Luchian, Ergosterol-induced modulation of transport and kinetic activity of alamethicin in artificial lipid membranes, The IXth National Conference of Biophysics, Romania, Bucuresti, 11-13 May 2007 (poster)
4. **Alina Asandei** Tudor Luchian Effects of pH on transport properties and ionic selectivity of amphotericin B-induced channels International Conference on Fundamental and Applied Research in Physics, Romania, Iasi, 25-28 october 2007 (poster)
5. R. Chiriac, A. Asandei, L. Mereuta, Tudor Luchian, pH modulation of ion transport through alamethicin channels formed in phosphatidylcholine artificial membranes, A IX-a Conferinta Nationala de Biofizica 11-13 Mai 2007, Bucuresti (lucrare poster)
6. **Alina Asandei**, Loredana Mereuta, Roxana Chiriac, Tudor Luchian The influence of superficial charge and ionic strenght upon the interaction between β -lactam antibiotics and OmpF porins The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Romania Bucuresti, 29 – 31 May, 2008 (poster)
7. Aurelia Apetrei, **Alina Asandei**, Yoonkynung Park, Kyung-Soo Hahm, Mathias Winterhalter, Tudor Luchian, Single-molecule description of certain antimicrobial peptides transit via OmpF porins TheX-th National Conference of Biophysics (CNB 2009), Romania, Cluj-Napoca, 1-3 October 2009 (prezentare orală)
8. T. Luchian, L. Mereuta, **A. Asandei**, A. Apetrei, *Single-molecule biophysics of pharmacological molecules interaction with protein pores and lipids*, Conferinta Nationala de Fizica – Iasi 23-25 septembrie 2010 (prezentare orală)
9. **Alina Asandei**, Aurelia Apetrei, Tudor Luchian, Single molecule investigations of the interactions between selected antimicrobial peptides and lipid membranes-inserted protein pores, Conferința Națională de Fizică, Romania, Iasi, 23-25 sept. 2010 (poster)
10. Tudor Luchian, Aurelia Apetrei, **Alina Asandei**, Loredana Mereuta, Interrogation of single-molecule chemistry with protein nanopores, "PROCESSES IN ISOTOPES AND MOLECULES" SEPTEMBER 29 - OCTOBER 01, 2011, CLUJ-NAPOCA ROMANIA (prezentare orală)
11. L. Mereuta, **A. Asandei**, T. Luchian, *A signal from the other side: the influence of membrane electrostatic asymmetry on alamethicin kinetic and transport features* 11-th National Conference of Biophysics, november 10-12, 2011, Sibiu, Romania (prezentare orală)



12. **A. Asandei**, L. Mereuță, T. Luchian, *Single Molecule Investigations of the pH-dependent Interaction Between Ampicillin and a Hybrid α -Haemolysin Protein Pore* 11-th National Conference of Biophysics, november 10-12, 2011, Sibiu, Romania (prezentare orală)
13. L. Mereuta, I. Schiopu, **A. Asandei**, A. Apetrei, T. Luchian Conferinta “Diaspora in Cercetarea Stiintifica si Invatamantul Superior din Romania”, Bucuresti, 25-28 Septembrie 2012, *Interrogation of chemical kinetics, one molecule at a time*, (prezentare orală)
14. Irina Schiopu, Loredana Mereuta, **Alina Asandei**, Tudor Luchian, *Analysis of copper ion induced peptide folding through a nanopore sensing technique*, 12th National Conference on Biophysics "CNB 2013", IAȘI, ROMANIA | JUNE 13-16, 2013 (prezentare orală)
15. **Alina Asandei**, Elisa Campos, Tudor Luchian, Sensing sulfonate coated gold nanoparticles with the α - hemolysin protein pore 12th National Conference on Biophysics Iasi, Romania 13-16th June 2013 (Poster)
16. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Braking of peptide passage across nanopores with oppositely charged aminoacids at the peptide termini, CNB 2015, 13th National Conference of Biophysics with International Participation, 4-6 Iunie 2015, Timisoara, Romania, (poster)
17. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Study of Peptide Conformational Changes at Single-Molecule Level using a protein nanopore. 14th National Conference of Biophysics, 2-4 Iunie 2016, Cluj-Napoca, Romania, (poster)
18. Irina Șchiopu, **Alina Asandei**, Loredana Mereuță, Sorana Iftemi, Tudor Luchian, Effect of Copper on Amyloid like peptides misfolding, 14th National Conference of Biophysics, June 2-4, 2016, Cluj-Napoca, Romania (poster presentation)
19. **Alina Asandei**, Loredana Mereuta, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian Protein Nanopores – Useful Tools to Decipher the Properties and Composition of Peptides CNB 2018 – September 7-September 10, 2018 Bucharest, Romania (prezentare orală)
20. Isabela Dragomir, **Alina Asandei**, Tudor Luchian, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park Fingerprinting of Selected Amino Acids from Engineered Polypeptides using an α -Hemolysin Nanopore CNB 2018 – September 7-September 10, 2018 Bucharest, Romania (poster – **best poster prize**)

40 puncte

I. 19 = 290

Tratate și manuale universitare 30 puncte la 100 pagini / număr de autori

Fenomene de transport în biofizica moleculară Alina ASANDEI, Editura UNIVERSITĂȚII „ALEXANDRU IOAN CUZA” IAȘI

$(30 \times 164) / 100 = 49.2$

TOTAL = 21527.369

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