

**Anexa nr.1**

Formularul de auto-evaluare a performanțelor, în vederea obținerii unei gradații de merit

Institutul de Cercetări Interdisciplinare – Departamentul Științe

Nume și prenume cercetător CIOBĂNAȘU Vasilica-Corina

Titlu științific CSIII dr.

CRITERIUL	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
I. ACTIVITATEA DE CERCETARE (80%)	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science, Clarivate Analytics</i>	(60 puncte x AIS) + 25 Pentru articolele publicate în calitate de autor principal (prim autor sau autor corespondent)	
		Corina Ciobanasu , <i>Peptides-based therapy and diagnosis. Strategies for non-invasive therapies in cancer. Journal of Drug Targeting</i> , 2021. 29(10): p. 1063-1079.	(60 x 0.771) + 25 = 71,26
		Corina Ciobanasu* , Isabela Dragomir, Aurelia Apetrei, <i>The penetrating properties of the tumor homing peptide LyP-1 in model lipid membranes, Journal of Peptide Science</i> , 25(3):e314,. 2019, doi: 10.1002/psc.3145.	(60 x 0.434) + 25 = 51,04
		Corina Ciobanasu , Hong Wang, Véronique Henriot, Cécile Mathieu, Annabelle Fente, Sandrine Csillag, Clémence Vigouroux, Bruno Faivre, Christophe Le Clainche, <i>Integrin-bound talin head inhibits actin filament barbed-end elongation, Journal of Biological Chemistry</i> , 293, 2586-2596, 2018	(60 x 1.578) + 25 = 119,68
		(60 puncte x AIS + 25)/număr autori Pentru articolele publicate în calitate de co-autor	
		A Asandei, I Schiopu, C Ciobanasu , Y Park, T Luchian, <i>If squeezed, a camel</i>	(60 x 0.45+ 25)/5 = 10,4

CRITERIUL	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
		<i>passes through the eye of a needle: voltage-mediated stretching of dendrimers facilitates passage through a nanopore</i> , Journal of membrane biology , 251 (3), 2018, 405-417 FI 1,638	
	2. Cărți științifice de autor (monografii, tratate, îndrumare, culegeri) publicate (pentru prima ediție*) în edituri	În străinătate: 30 puncte la 100 pagini / număr autori, indexate WorldCat (https://www.worldcat.org/)	30 x 30 /100= 9
		Ciobanasu Corina , and Kubitscheck U., Chapter 55: <i>Cell penetrating peptides targeting and distorting biological membranes</i> . 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	
		În țară acreditate de CNCS: 40 puncte la 100 pagini / număr autori	
		<u>*pentru edițiile revizuite și adăugite se va acorda jumătate din punctaj</u>	
	3. Contracte de cercetare științifică obținute prin competiție derulate în ultimii 5 ani prin Universitate	Finanțare Internațională sau Națională director de proiect: 100 puncte x (valoare grant in euro)/100.000 euro	25 x (210.000 / 100.000) /7 = 7,5
		membru în echipa de proiect: 25 puncte x (valoare grant in euro)/100.000 euro/nr. membri echipă	
		<i>“Tehnologii moleculare emergente bazate pe sisteme micro și nano-structurate cu aplicații biomedicale”</i> , 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	
		<i>“Metodă bazată pe nanopori de detecție și cuantificare a bacteriilor prin interacțiunea selectivă a peptidelor antimicrobiene cu membrane bacteriene”</i> (BACTODET) cod PN-II-RU-TE-2014-4-2388 , acronim, contract de finanțare nr. 64/01.10.2015	25 x (125.000 / 100.000) /7 = 4,46
	4. Brevete	internationale: 75 puncte / număr autori	---
		naționale: 25 puncte / număr autori	---
	5. Produse și/sau servicii inovative cu impact economic demonstrabil prin documente emise de autorități legale (OSIM, RENAR, ASRO)	în străinătate: 40 puncte / număr autori	---
		în țară: 30 puncte / număr autori	---

CRITERIUL	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
	6. Citări și recenzii ale creației de autor obținute în ultimii 5 ani (exclus autocitări/o citare se va cuantifica o singură dată)	reviste de specialitate indexate <i>Web of Science, Clarivate Analytics</i> : (10 + 20 x AIS) / număr autori Notă: AIS-ul este al revistei care citează	2017-2021 2623, 872
		citare în cărți din străinătate: 1 punct/ număr autori	7, 73
		citare în cărți din țară: 0,25 puncte/ număr autori	---
	7. Participare la conferințe științifice (dovedită cu ordin de deplasare, program, certificat de participare, etc.)	în calitate de keynote/invited speaker internațională: 25 puncte pentru fiecare activitate națională: 15 puncte pentru fiecare activitate	---
		în calitate de speaker (prezentare orală) internațională: 10 puncte pentru fiecare activitate C. 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	10
		națională: 5 puncte pentru fiecare activitate Corina Ciobanasu , XVth National Conference of Biophysics, <i>The N-terminal of Talin Inhibits Actin Assembly</i> , 7-10 September 2018, Bucharest, Romania	5
	8. Lucrări științifice în rezumat	În revistele indexate <i>Web of Science, Clarivate Analytics</i> , cu factor de impact: (20 x AIS + 5) / număr autori 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,	(20 x 0.521 + 5)/2 = 7,71
		Corina Ciobanasu , Aurelia Apetrei, “The tumor homing peptide tLyp shows penetrating properties in model membranes”, Eur Biophys J (2017) 46 (Suppl 1):S43–S402	(20 x 0.521 + 5)/2 = 7,71 15.42
	9. Profesor/cercetător invitat la universități, centre și institute de cercetare (la inițiativa probată a instituției gazdă)	în străinătate: 25 puncte pentru fiecare activitate	---
		în țară: 10 puncte pentru fiecare activitate	---
	10. Poziții de conducere în organizații	internaționale: 20 puncte ;	---

CRITERIUL	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
	științifice ori profesionale	naționale: 5 puncte / organizație	
	11. Membru al Academiei Române și al academiilor din străinătate	Membru al Academiei Române: 100 puncte; Membru al Academiilor din străinătate (exclusiv academii care acceptă calitatea de membru contra unei taxe): 500 puncte;	---
	12. Editor, membru în echipa editorială (se va puncta o singură dată pentru fiecare perioadă de 5 ani):	Reviste indexate <i>Web of Science, Clarivate Analytics</i> Editor: 20 puncte/activitate; Membru în echipa editorială: 15 puncte/activitate;	----
	13. Referent (peer-reviewer)	Reviste de specialitate indexate <i>Web of Science, Clarivate Analytics</i> : 0,1 puncte / activitate	0,1 x 3 = 0.3
II. ACTIVITATEA INSTITUȚIONALĂ (20%)	1.1. Activități de promovare UAIC ; Caravana UAIC ; participare târguri, expoziții, evenimente instituționale	5 puncte pentru fiecare activitate/an	---
	1.2. Responsabil evaluări ARACIS	5 puncte /deplasare	
	2. Organizare manifestări științifice (conferințe, congrese, colocvii) și școli de vară, demonstrabile cu link la pagina web	internaționale: coordonator: 15 puncte / activitate; membru comitet organizare: 5 puncte / activitate; naționale: coordonator 10 puncte / activitate; membru comitet organizare: 3 puncte / activitate	---
	3. Responsabilități în cadrul Universității, facultăților și în cadrul departamentelor conexe activităților de cercetare	Rector: 50 puncte anual; Prorectori, Director CSUD, Director FC/ID/IFR: 45 puncte anual; Decani: 40 puncte anual; Prodecani, Directori Departamente interdisciplinare, Director Școală Doctorală, Director ID, Director Centrul de Studii Europene, Grădina Botanică, Muzeu, Stațiuni de Cercetare: 35 puncte anual; Director departament facultate: 30 puncte anual; Coordonator laborator, grup, colectiv: 10 puncte anual	---
	4. Responsabilități în cadrul Senatului Universității / Consiliului facultății / Consiliul departamentului	Senat: președinte - 30 puncte anual/ vicepreședinte - 25 puncte anual / președinte al unei comisii de specialitate - 20 puncte anual/ membru – 15 puncte anual Facultate: 10 puncte anual Departament: 5 puncte anual	---

CRITERIUL	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJ REALIZAT
	5. Membru în comisii ale universității avizate de Senat (Comisia de Etică, Comisia pentru managementul calității, Comisia de regulamente, etc.)	10 puncte anual /comisie	---
	6. Membru în comisii concurs în vederea ocupării un post didactic ori de cercetare în învățământul universitar	5 puncte / comisie 2021: 1 comisie CS 2019: 1 comisie ACS 1 comisie CS III 1 comisie CS	20
	7. Membru comisii de doctorat (admitere, îndrumare și susținere publică)	străinătate: 5 puncte pentru fiecare activitate; țară: 2 puncte pentru fiecare activitate	---
	8. Proiecte pentru mobilități de tip grant	coordonator: 20 puncte x valoarea proiectului / 500.000 Euro membru: 10 puncte x valoarea proiectului / 500.000 Lei/Euro /numărul membrilor echipei	---
TOTAL PUNCTAJ			2955.662

I.6. Citari reviste de specialitate indexate Web of Science, Clarivate Analytics

2021

The penetrating properties of the tumor homing peptide LyP-1 in model lipid membranes, *J Pept Sci*, citat in:

Dube, T., et al., *Dual Blood-Brain Barrier-Glioma Targeting Peptide-Poly(levodopamine) Hybrid Nanoplatfroms as Potential Near Infrared Phototheranostic Agents in Glioblastoma*. Bioconjug Chem, 2021. 32(9): p. 2014-2031.

$(10 + 20 \times 1.006)/4 = 7.53$

Sajid, M.I., et al., *Applications of amphipathic and cationic cyclic cell-penetrating peptides: Significant therapeutic delivery tool*. Peptides, 2021. 141: p. 170542.

$(10 + 20 \times 0.691)/7 = 3.403$

Reissmann, S. and M.P. Filatova, *New generation of cell-penetrating peptides: Functionality and potential clinical application*. J Pept Sci, 2021. 27(5): p. e3300.

$(10 + 20 \times 0.434)/4 = 9.34$

Desale, K., K. Kuche, and S. Jain, *Cell-penetrating peptides (CPPs): an overview of applications for improving the potential of nanotherapeutics*. Biomater Sci, 2021. 9(4): p. 1153-1188.

$(10 + 20 \times 1.099)/3 = 10.66$

If Squeezed, a Camel Passes Through the Eye of a Needle: Voltage-Mediated Stretching of Dendrimers Facilitates Passage Through a Nanopore, *J Membr Biol.*, citat in:

Schiopu, I., et al., *Single-molecule detection and manipulation with biological nanopores*. Studia Universitatis Babes-Bolyai Chimia 2021. 66 (3): p. 161-174

$(10 + 20 \times 0.051)/6 = 1.8367$

Integrin-bound talin head inhibits actin filament barbed-end elongation, *JBC*, citat in:

Zhu, L., E.F. Plow, and J. Qin, *Initiation of focal adhesion assembly by talin and kindlin: A dynamic view*. Protein Sci, 2021. 30(3): p. 531-542.

$(10 + 20 \times 2.079)/3 = 17.193$

Wang, Y., et al., *Positive effect of Astragaloside IV on neurite outgrowth via talin-dependent integrin signaling and microfilament force*. J Cell Physiol, 2021. 236(3): p. 2156-2168.

$(10 + 20 \times 1.069)/7 = 4.483$

Goult, B.T., N.H. Brown, and M.A. Schwartz, *Talin in mechanotransduction and mechanomemory at a glance*. J Cell Sci, 2021. 134(20).

$(10 + 20 \times 2.034)/3 = 16.893$

NKCS, a Mutant of the NK-2 Peptide, Causes Severe Distortions and Perforations in Bacterial, But Not Human Model Lipid Membranes, Molecules, citat in:

Behuria, H.G., B.K. Biswal, and S.K. Sahu, *Electroformation of liposomes and phytosomes using copper electrode*. J Liposome Res, 2021. 31(3): p. 255-266.

$(10 + 20 \times 0.486)/3 = 6.573$

Reconstituting actomyosin-dependent mechanosensitive protein complexes in vitro, Nat Protoc., citat in:

Ansardamavandi, A. and M. Tafazzoli-Shadpour, *The functional cross talk between cancer cells and cancer associated fibroblasts from a cancer mechanics perspective*. Biochim Biophys Acta Mol Cell Res, 2021. 1868(11): p. 119103.

$(10 + 20 \times 1.484)/2 = 19.84$

Libring, S., et al., *In Vitro Magnetic Techniques for Investigating Cancer Progression*. Cancers (Basel), 2021. 13(17).

$(10 + 20 \times 1.323)/4 = 9.115$

Sonam, S., et al., *Direct measurement of near-nano-Newton forces developed by self-organizing actomyosin fibers bound alpha-catenin*. Biol Cell, 2021. 113(11): p. 441-449.

$(10 + 20 \times 1.233)/7 = 4.951$

Actomyosin-dependent formation of the mechanosensitive talin–vinculin complex reinforces actin anchoring, Nature Communications citat in:

Wang, Y., et al., *Force-Dependent Interactions between Talin and Full-Length Vinculin*. J Am Chem Soc, 2021. 143(36): p. 14726-14737.

$(10 + 20 \times 3.991)/7 = 12.831$

El-Rashidy, A.A., et al., *Effect of Polymeric Matrix Stiffness on Osteogenic Differentiation of Mesenchymal Stem/Progenitor Cells: Concise Review*. Polymers (Basel), 2021. 13(17).

$(10 + 20 \times 0.597)/7 = 3.134$

Sonam, S., et al., *Direct measurement of near-nano-Newton forces developed by self-organizing actomyosin fibers bound alpha-catenin*. Biol Cell, 2021. 113(11): p. 441-449.

$(10 + 20 \times 1.233)/7 = 4.951$

Souissi, M., et al., *Integrin-Functionalised Giant Unilamellar Vesicles via Gel-Assisted Formation: Good Practices and Pitfalls*. Int J Mol Sci, 2021. 22(12).

$(10 + 20 \times 1.123)/7 = 4.637$

Lee, G., S.B. Han, and D.H. Kim, *Cell-ECM contact-guided intracellular polarization is mediated via lamin A/C dependent nucleus-cytoskeletal connection*. Biomaterials, 2021. 268: p. 120548.

$(10 + 20 \times 2.195)/3 = 17.967$

Legerstee, K. and A.B. Houtsmuller, *A Layered View on Focal Adhesions*. Biology (Basel), 2021. 10(11).

$(10 + 20 \times 2.085)/2 = 25.85$

Henning Stumpf, B., et al., *Recent Advances and Prospects in the Research of Nascent Adhesions*. Front Physiol, 2021. 11: p. 574371.

$(10 + 20 \times 1.135)/1 = 32.7$

Aggregates of Nisin with Various Bactoprenol-containing Cell Wall Precursors Differ in Size and Membrane Permeation Capacity, BBA Biomembranes, citat in:

Qian, JQ; Chen, Y et al., *Preparation and antimicrobial activity of pectin-chitosan embedding nisin microcapsules*, Eur. Polym. J., 2021. 157: p. 110676

$(10 + 20 \times 0.664)/7 = 3.326$

Flynn, J., A. Ryan, and S.P. Hudson, *Pre-formulation and delivery strategies for the development of bacteriocins as next generation antibiotics*. Eur J Pharm Biopharm, 2021. 165: p. 149-163.

$$(10 + 20 \times 0.911)/3 = \mathbf{9.407}$$

Integrating actin dynamics, mechanotransduction and integrin activation: the multiple functions of actin binding proteins in focal adhesions, *European Journal of Cell Biology* citat in:

Pehrsson, M., et al., *Enzymatic cross-linking of collagens in organ fibrosis - resolution and assessment*. Expert Rev Mol Diagn, 2021. 21(10): p. 1049-1064.

$$(10 + 20 \times 1.081)/6 = \mathbf{5.27}$$

Perez-Moreno, A., et al., *Effect of Washing Treatment on the Textural Properties and Bioactivity of Silica/Chitosan/TCP Xerogels for Bone Regeneration*. Int J Mol Sci, 2021. 22(15).

$$(10 + 20 \times 1.123)/8 = \mathbf{4.0575}$$

Weberling, A. and M. Zernicka-Goetz, *Trophectoderm mechanics direct epiblast shape upon embryo implantation*. Cell Rep, 2021. 34(3): p. 108655.

$$(10 + 20 \times 4.515)/2 = \mathbf{50.15}$$

Rasmussen, M.K., H. Mestre, and M. Nedergaard, *Fluid Transport in the Brain*. Physiol Rev, 2021.

$$(10 + 20 \times 11.48)/3 = \mathbf{79.867}$$

Hall, C.M., E. Moeendarbary, and G.K. Sheridan, *Mechanobiology of the brain in ageing and Alzheimer's disease*. Eur J Neurosci, 2021. 53(12): p. 3851-3878.

$$(10 + 20 \times 1.075)/3 = \mathbf{10.5}$$

Virdi, J.K. and P. Pethe, *Biomaterials Regulate Mechanosensors YAP/TAZ in Stem Cell Growth and Differentiation*. Tissue Eng Regen Med, 2021. 18(2): p. 199-215.

$$(10 + 20 \times 0.467)/2 = \mathbf{9.67}$$

van Gaal, R.C., et al., *Renal Epithelial Monolayer Formation on Monomeric and Polymeric Catechol Functionalized Supramolecular Biomaterials*. Adv. Mater. Interfaces, 2021. 19(2): p. e1800300.

$$(10 + 20 \times 1.139)/5 = \mathbf{6.556}$$

Hannan, R.T., et al., *Extracellular matrix remodeling associated with bleomycin-induced lung injury supports pericyte-to-myofibroblast transition*. Matrix Biol Plus, 2021. 10: p. 100056.

$$(10 + 20 \times 2.602)/6 = \mathbf{10.34}$$

Cell penetrating HIV1 TAT peptides can generate pores in model membranes, *Biophysical Journal* citat in:

Tiwari, A.K., et al., *Nanotechnology: A Potential Weapon to Fight against COVID-19*. PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION, 2021.

$$(10 + 20 \times 0.651)/5 = \mathbf{4.604}$$

Ali, M.H., et al., *Translocation of the nonlabeled antimicrobial peptide PGLa across lipid bilayers and its entry into vesicle lumens without pore formation*. Biochim Biophys Acta Biomembr, 2021. 1863(10): p. 183680.

$$(10 + 20 \times 1.026)/4 = \mathbf{7.63}$$

Rusiecka, I., I. Gagalo, and I. Kocic, *Cell-penetrating peptides improve pharmacokinetics and pharmacodynamics of anticancer drugs*. Tissue Barriers, 2021: p. 1965418.

$$(10 + 20 \times 2.035)/3 = \mathbf{16.9}$$

Hossain, F., H. Dohra, and M. Yamazaki, *Effect of membrane potential on entry of lactoferricin B-derived 6-residue antimicrobial peptide into single Escherichia coli cells and lipid vesicles*. J Bacteriol, 2021.

$$(10 + 20 \times 1.166)/3 = \mathbf{11.107}$$

Choong, F. H., Yap, B. K., *Cell-Penetrating Peptides: Correlation between Peptide-Lipid Interaction and Penetration Efficiency.*, Chemphyschem, 2021. 22 (5), pp.493-498

$$(10 + 20 \times 3.102)/2 = \mathbf{36.02}$$

Wichmann, N., et al., *Applying flow cytometry to identify the modes of action of membrane-active peptides in a label-free and high-throughput fashion*. Biochim Biophys Acta Biomembr, 2021: p. 183820.

$$(10 + 20 \times 1.026)/8 = \mathbf{3.815}$$

Cell-penetrating HIV1 TAT peptides float on model lipid bilayers, *Biochemistry*, citat in:

Xu, Y., et al., *Histidine polypeptide-hybridized nanoscale metal-organic framework to sense drug loading/release*. MATERIALS & DESIGN 2021. 205: p. 109741.

$$(10 + 20 \times 1.255)/9 = \mathbf{3.9}$$

Sun, S., et al., *Real-time monitoring the interfacial dynamic processes at model cell membranes: Taking cell penetrating peptide TAT as an example*. J Colloid Interface Sci, 2021.

$$(10 + 20 \times 1.063)/7 = \mathbf{4.466}$$

Actin dynamic associated with focal adhesions, *IJCB*, citat in:

Starostina, I., et al., *Distinct calcium regulation of TRPM7 mechanosensitive channels at plasma membrane microdomains visualized by FRET-based single cell imaging*. Sci Rep, 2021. 11(1): p. 17893.

$(10 + 20 \times 1.285) / 8 = \mathbf{4.4625}$

Linfield, D.T., et al., *RSV attenuates epithelial cell restitution by inhibiting actin cytoskeleton-dependent cell migration*. Am J Physiol Lung Cell Mol Physiol, 2021.

$(10 + 20 \times 1.352) / 6 = \mathbf{6.173}$

Schreiber, C., et al., *On the adhesion-velocity relation and length adaptation of motile cells on stepped fibronectin lanes*. Proc Natl Acad Sci U S A, 2021. 118(4).

$(10 + 20 \times 4.79) / 5 = \mathbf{21.16}$

Hauke, L., et al., *A Focal Adhesion Filament Cross-correlation Kit for fast, automated segmentation and correlation of focal adhesions and actin stress fibers in cells*. PLoS One, 2021. 16(9): p. e0250749.

$(10 + 20 \times 1.011) / 5 = \mathbf{6.044}$

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, 2021: p. 167228.

$(10 + 20 \times 2.326) / 3 = \mathbf{18.84}$

Citari 2020

The penetrating properties of the tumor homing peptide LyP-1 in model lipid membranes, *J Pept Sci*, citat in:

Zhong, Zhirong; Cai, Liang; Li, Chunhong, *Characterization and targeting ability evaluation of cell-penetrating peptide LyP-1 modified alginate-based nanoparticles*, RSC ADVANCES, 10 (54), Pages: 32443-32449, 2020,

$(10 + 20 \times 0.525) / 3 = \mathbf{6.83}$

Bai, Jing; Duan, Jialun; Liu, Rui; et al., *Engineered targeting tLyp-1 exosomes as gene therapy vectors for efficient delivery of siRNA into lung cancer cells*, ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES, 15 (4), Pages: 461-471, 2020, $(10 + 20 \times 0.964) / 10 = \mathbf{2.928}$

Lebegue, Estelle; Barriere, Frederic; Bard, Allen J., *Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions*, ANALYTICAL CHEMISTRY, 92(3), Pages: 2401-2408, 2020, $(10 + 20 \times 6.785) / 3 = \mathbf{12.533}$

If Squeezed, a Camel Passes Through the Eye of a Needle: Voltage-Mediated Stretching of Dendrimers Facilitates Passage Through a Nanopore, *J Membr Biol.*, citat in:

Asandei, Alina; Mereuta, Loredana; Schiopu, Irina; et al., *Non-Receptor-Mediated Lipid Membrane Permeabilization by the SARS-CoV-2 Spike Protein S1 Subunit*, ACS APPLIED MATERIALS & INTERFACES, 12(50), Pages: 55649-55658, 2020, $(10 + 20 \times 1.697) / 7 = \mathbf{6.277}$

Integrin-bound talin head inhibits actin filament barbed-end elongation, *JBC*, citat in:

Urciuoli, Enrica; Peruzzi, Barbara, *Involvement of the FAK Network in Pathologies Related to Altered Mechanotransduction*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 21(24), Article Number: 9426, 2020, $(10 + 20 \times 1.123) / 2 = \mathbf{16.23}$

Wang, Yifan; Zhou, Jingwen; Tang, Chuanfeng; et al., *Positive effect of Astragaloside IV on neurite outgrowth via talin-dependent integrin signaling and microfilament force*, JOURNAL OF CELLULAR PHYSIOLOGY, 236(3), Pages: 2156-2168, 2020, $(10 + 20 \times 1.069) / 7 = \mathbf{4.483}$

Aventaggiato, Michele; Barreca, Federica; Vernucci, Enza; et al., *Putative Receptors for Gravity Sensing in Mammalian Cells: The Effects of Microgravity*, APPLIED SCIENCES-BASEL, 10(6), Article Number: 2028, 2020,

$(10 + 20 \times 0.409) / 7 = \mathbf{2.597}$

Romero, Stephane; Le Clainche, Christophe; Gautreau, Alexis M., *Actin polymerization downstream of integrins: signaling pathways and mechanotransduction*, BIOCHEMICAL JOURNAL, 477 (1), Pages: 1-21, 2020,

$(10 + 20 \times 1.324) / 3 = \mathbf{12.16}$

Reconstituting actomyosin-dependent mechanosensitive protein complexes in vitro, *Nat Protoc.*, citat in:

Boujemaa-Paterski, Rajaa; Martins, Bruno; Eibauer, Matthias; et al., Talin-activated vinculin interacts with branched actin networks to initiate bundles, *ELIFE*, Volume: 9, Article Number: e53990, 2020,

$(10 + 20 \times 4.595)/6 = \mathbf{16.983}$

Vigouroux, Clemence; Henriot, Veronique; Le Clainche, Christophe, Talin dissociates from RIAM and associates to vinculin sequentially in response to the actomyosin force, *NATURE COMMUNICATIONS*, 11(1), 2020,

$(10 + 20 \times 5.565)/3 = \mathbf{40.433}$

Polesskaya, Anna; Vicente-Manzanares, Miguel, eeting Report - Workshop 'Actin-based mechanosensation and force generation in health and disease', *JOURNAL OF CELL SCIENCE*, 133(6), Article Number: jcs244319, 2020,

$(10 + 20 \times 2.034)/2 = \mathbf{25.34}$

S Azadi, The microenvironment and cytoskeletal remodeling in tumor cell invasion, *International Review of Cell and Molecular Biology*, 356:257-289,

$(10 + 20 \times 1.768)/1 = \mathbf{45.36}$

Actomyosin-dependent formation of the mechanosensitive talin–vinculin complex reinforces actin anchoring, *Nature Communications* citat in:

Naqvi, S. M.; McNamara, L. M., Stem Cell Mechanobiology and the Role of Biomaterials in Governing Mechanotransduction and Matrix Production for Tissue Regeneration, *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*, 8, Article Number: 597661, 2020,

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