Справка за събраните точки във връзка с участието в конкурса за заемане на академичната длъжност „доцент“

на гл. ас. Мария Иванова Лазарова, дб
направление „Синаптична сигнализация и комуникации“

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Област 4. Природни науки, математика и информатика. Професионално направление 4.3. Биологически науки

Таблица 1. Минимални изисквани точки по групи показатели за различните научни степени и академични длъжности

Група от показатели	Съдържание	**Изискани точки за „Доцент“**	Брой точки за конкурса
А	Показател 1	50	**50**
Б	Показател 2	-	-
В	Показатели 3 или 4	100	**100**
Г	Сума от показателите от 5 до 9	220	**223**
Д	Сума от показателите от 10 до 12	60	**70**
Е	Сума от показателите от	-	

Група от показатели	Показател	Брой точки	Събрани точки
А	1. Дисертационен труд за присъждане на образователна и научна степен "доктор"		
А	**Успешно защитена дисертация за присъждане на ОНС „Доктор“, Тема: *Невромодулаторни и протективни ефекти на вазоактивния интестинален пептид.* Година на защита 2018г**		**50**
Б	2. Дисертационен труд за присъждане на образователна и научна степен "доктор на науките"		
В	3. Хабилитационен труд – монография, или 4. Хабилитационен труд – научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus)*	100 за монография 25 за публ. в Q1 20 за публ. в Q2 15 за публ. в Q3 12 за публ. в Q4 10 за публ. в издание със SJR без IF	
В	**5. Lazarova,** M., Popatanasov, A., Klissurov, R., Stoeva, S., Pajpanova, T., Kalfin, R., Tancheva, L. (2018). **“Preventive Effect of Two New Neurotensin Analogues on Parkinson’s Disease Rat Model.”** *Journal of Molecular Neuroscience,* 66 (4): 552-560 DOI: 10.1007/s12031-018-1171-6 SCOPUS, Q1		**Q1=25т**
В	7.Tancheva, L., **Lazarova, M.**, Alexandrova, A., Dragomanova, **S.**, Nicoletti, F., Tzvetanova, E., Hodzhev, Y., Kalfin, R., Miteva, S., Mazzon, E., Tzvetkov, N., **Atanasov, A.** (2020). **“Neuroprotective mechanisms of three natural antioxidants on rat model of Parkinson’s disease: a comparative study.”** *Antioxidants*, 9 (1): 49 DOI:10.3390/antiox9010049 WEB OF SCIENCE, Q1		**Q1=25т**
В	**10. Lazarova, M.,** Tancheva, L., Alexandrova, A., Tzvetanova, E., Georgieva, A., Stefanova, M., Tsekova, D., Vezenkov, L., Kalfin, R., Uzunova, D., Petkova-Kirova, P. (2021). **„Effects of New Galantamine Derivatives in a Scopolamine Model of Dementia in Mice.”** *Journal of Alzheimer's Disease,* 84(2): 671-690 DOI:10.3233/JAD-215165 SCOPUS, Q1		**Q1=25т**
В	**11. Lazarova, M.**, Tsekova, D., Tancheva, L., Kirilov, K., Uzunova, D., Vezenkov, L., Tsvetanova, E., Alexandrova, A., Georgieva, A., Gavrilova, P., Dragomanova, S., Papazova, M., Handzhiyski, Y., Kalfin, R. (2021). **“New Galantamine Derivatives with Inhibitory Effect on Acetylcholinesterase Activity**.” *Journal of Alzheimer's disease*, 83(3): 1211-1220 DOI:10.3233/JAD-210577 SCOPUS, Q1		**Q1=25т**
		Общо	**100т**

	5. Публикувана монография, която не е представена като основен хабилитационен труд		0
	6. Публикувана книга на базата на защитен дисертационен труд за присъждане на образователна и научна степен „доктор“ или за присъждане на научна степен „доктор на науките“		0
	7. Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд*	25 за публ. в Q1 20 за публ. в Q2 15 за публ. в Q3 12 за публ. в Q4 10 за публ. в издание със SJR без IF	
	1. Rakovska, A., Kiss, J., **Lazarova, M.**, Kalfin, R., Djambazova, E. (2002). **"The non-competitive AMPA receptor antagonist (GYKI 52466) blocks quisqualate-induced acetylcholine release from the rat hippocampus and striatum: an in vivo microdialysis study."** *Neurochemistry International*, 40 (5): 419-426 DOI:10.1016/S0197-0186(01)00103-6 SCOPUS Q2		**Q2=20**
	2. Rakovska, A., Raichev, P., **Lazarova, M.**, Kalfin, R., Kiss, J., Milenov, K. (2002). **"Somatostatin stimulates striatal acetylcholine release by a glutamatergic receptor: an in vivo microdialysis study in freely moving rats."** *Neurochemistry International*, 40 (3): 269-275 DOI:10.1016/S0197-0186(01)00037-7 SCOPUS Q2		**Q2=20**
	3. Hadzhibozheva, P., **Lazarova, M.**, Tolekova, A., Kalfin, R. **(2014). "Modulatory effects of peptide ghrelin on urinary bladder and its role in diabetes."** *Bulgarian Journal of Agricultural Sciences*, 20 (1): 15-19 SCOPUS Q3		**Q3=15**
	4. Popatanasov, A., Stoeva, S., **Lazarova, M.**, Trajkov, L., Pajpanova, T., Kalfin, R., Tancheva, L. (2017). **"Effects of new neurotensin analogue on brain activity in rat Parkinson's disease model."** *Bulgarian Chemical Communications*, 49 (E): 146-150 SCOPUS Q4		**Q4=12**
	6. Tzvetanova, E., Georgieva, A., Alexandrova A., Tancheva L., **Lazarova M.**, Dragomanova S., Alova L., Stefanova M., Kalfin R. (2018). **"Antioxidant mechanisms in neuroprotective action of lipoic acid on learning and memory of rats with experimental dementia."** Bulgarian Chemical Communications, 50 (C): 52-57 SCOPUS Q4		**Q4=12**
	8.Tancheva, L., Petralia, M., Miteva, S., Dragomanova, S., Solak, A., Kalfin, R., **Lazarova, M.**, Yarkov, D., Ciurleo, R., Caval, E., Bramanti, A., Ferdinando, N. (2020). **Review: "Emerging**		**Q3=15т**

Neurological and Psychobiological Aspects of COVID-19 Infection." *Brain Sciences*, 10 (11): 852 DOI:10.3390/brainsci10110852 SCOPUS Q3			
9. Tsvetanova, E., Alexandrova, A., Georgieva, A., Tancheva, L., **Lazarova, M.**, Dolashka, P., Velkova, L., Dolashki, A., Atanasov, V., Kalfin, R. (2020). **"Effect of mucus extract of Helix aspersa on scopolamine-induced cognitive impairment and oxidative stress in rat's brain"**. *Bulgarian Chemical Communications*, 52 (D): 107-111 SCOPUS Q4			**Q4=12т**
12. Tancheva, L., **Lazarova M**, Saso L, Kalfin R, Stefanova M, Uzunova D, Atanasov A. (2021). **"Beneficial effect of melatonin on motor and memory disturbances in 6-OHDA-lesioned rats."** *Journal of Molecular Neuroscience*, 7 (4): 702-712 DOI:10.1007/s12031-020-01760-z SCOPUS Q2			**Q2=20т**
13. Kermedchiev, M., **Lazarova, M.**, Tancheva, L., Uzunova, D., Tasheva, K., Velkova, L., Dolashki, A., Daskalova, A., Atanasov, V., Kaynarov, D., Dolashka, P. (2021). "**Natural substances with therapeutic potential in wound healing."** *Bulgarian Chemical Communications*, 53 (A): 73-79 DOI: 10.34049/bcc.53.A.0015, 73-79 SCOPUS Q4			**Q4=12т**
14. Stankova, I., **Lazarova, M.**, Chayrov, R., Popatanasov, A., Tancheva, L., Kalfin, R. (2021). "**Newly synthesized amantadine derivative: safety and neuropharmacological activity**." Farmacia, 69 (6): 1112-1119 DOI: https://doi.org/10.31925/farmacia.2021.6.14 SCOPUS Q2			**Q2=20т**
15. **Lazarova,** M., Tancheva, L., Chayrov, R., Tzvetanova, E., Alexandrova, A., Popatanasov, A., Uzunova, D., Stefanova, M., Stankova, I., Kalfin, R. (2022). **"Tyrosinyl-amantadine - new amantadine derivative with ameliorative effect in 6-OHDA experimental model of Parkinson's disease in rats."** *Journal of Molecular Neuroscience* (Published online: 28 January 2022) DOI: https://doi.org/10.1007/s12031-021-01964-x SCOPUS Q2			**Q2=20т**
16. Staykov, K., **Lazarova, M.**, Hassanova, Y., Stefanova. M., Tancheva, L., Nikolov, R. (2022). "**Neuromodulatory Mechanisms of a Memory Loss Preventive Effect of Alpha-Lipoic Acid in an Experimental Rat Model of Dementia."** *Journal of Molecular Neuroscience* (article in press) SCOPUS Q2			**Q2=20т**
9. Изобретение, патент или полезен модел, за което е издаден защитен документ по надлежния ред			
Патент за изобретение Рег. Номер 6731 B1. **Наименование:** АДАМАНТАНОВО ПРОИЗВОДНО С ПРОТИВОВИРУСНА И АНТИПАРКИНСОНОВА АКТИВНОСТ **Притежател/и**: Югозападен университет "Неофит Рилски", ул.			**25**

	"Иван Михайлов" 66, 2700 Благоевград [BG] Институт по невробиология - БАН, ул. "Акад. Г. Бончев", бл. 23, 1113 София [BG] **Изобретател/и:** Иванка Георгиева Станкова Радослав Людмилов Чайров Рени Емил Калфин Любка Павлова Танчева Албена Владимирова Александрова Мария Иванова Лазарова **Срок на действие:** 25/09/2038		
		Общо	**223**
Д	11. Цитирания в научни издания, монографии, колективни томове и патенти, реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus)*		
	1. Rakovska, A., Kiss, J., Lazarova, M., Kalfin, R., Djambazova, E. (2002). "The non-competitive AMPA receptor antagonist (GYKI 52466) blocks quisqualate-induced acetylcholine release from the rat hippocampus and striatum: an in vivo microdialysis study." ***Neurochemistry International*****, 40 (5): 419-426**		
цитирана в:	1. Ghersi, C. Bonfanti, A. Manzari, B. Feligioni, M. Raiteri, M. Pittaluga, A. Pharmacological heterogeneity of release-regulating presynaptic AMPA/kainate receptors in the rat brain: Study with receptor antagonists. *Neurochemistry International* 42 (4): 283-292, 2003.		**2т**
	2. Tanaka, J. Activation of cholinergic pathways from the septum to the subfornical organ area under hypovolemic condition in rats. *Brain Research Bulletin* 61 (5): 497-504, 2003.		**2т**
	3. Çelik, T. Kayir, H. Ceyhan, M. Demirtaş, S. Coşar, A. Uzbay, T. CPP and amlodipine alter the decrease in basal acetylcholine and choline release by audiogenic stimulus in hippocampus of ethanol-withdrawn rats in vivo. *Brain Research Bulletin* 64 (3): 243-249, 2004.		**2т**
	4. Miyamae, K. Yoshida, M. Inadome, A. Murakami, S. Otani, M. Iwashita, H. Masunaga, K. Ueda, S. Acetylcholine release from urinary bladder smooth muscles of non-insulin-dependent diabetic rats. *Urologia Internationalis* 73 (1): 74-80, 2004.		**2т**
	5. Paes, P. de Magalhães, L. Camillo, M. Rogero, J. Troncone, L. Ionotropic glutamate receptors regulating labeled acetylcholine release from rat striatal tissue in vitro: Possible involvement of receptor modulation in magnesium sensitivity. *Neuroscience Research* 49 (3):289-295, 2004.		**2т**
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	8. Wasilewska, B. Robak, A, Równiak, M. Bogus-Nowakowska, K. Najdzion, J. Żakowski, W. Majewski, M. Distribution and chemical		

	coding pattern of somatostatin immunoreactivity in the dorsal striatum of the guinea pig. *Folia Histochemica et Cytobiologica* 49(4): 690-699, 2011.		**2т**
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	10. Noori, H. Fliegel, S. Brand, I. Spanagel, R. The impact of acetylcholinesterase inhibitors on the extracellular acetylcholine concentrations in the adult rat brain: A meta-analysis. *Synapse* 66 (10): 893-901, 2012.		**2т**
	2. Rakovska, A., Raichev, P., <u>Lazarova, M.</u>, Kalfin, R., Kiss, J., Milenov, K. (2002). "Somatostatin stimulates striatal acetylcholine release by a glutamatergic receptor: an in vivo microdialysis study in freely moving rats." *Neurochemistry International*, 40 (3): 269-275		
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	2.Tashev, R. Belcheva, S. Belcheva, I. Differential effects of somatostatin on exploratory behavior after unilateral injections into rat neostriatum. Peptides 25 (1): 123-128, 2004.		**2т**
	3.Hossain, M. Suzuki, T. Sato, N. Sato, I. Takewaki, T. Suzuki, K. Tachikawa, E. Kobayashi, H. Differential effects of pyrethroid insecticides on extracellular dopamine in the striatum of freely moving rats. *Toxicology and Applied Pharmacology* 217 (1): 25-34, 2006.		**2т**
	4.Li, Y. Peris, J. Zhong, Li. Derendorf, H. Microdialysis as a tool in local pharmacodynamics. AAPS Journal 8(2): E222-E235, 2006.		**2т**
	5. Bernácer, J. Prensa, L. Giménez-Amaya J. Cholinergic interneurons are differentially distributed in the human striatum .PLoS ONE 2(11): e1174, 2007.		**2т**
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	7.Semenova, S. Hoyer, D. Geyer, M. Markou, A. Somatostatin-28 modulates prepulse inhibition of the acoustic startle response, reward processes and spontaneous locomotor activity in rats. *Neuropeptides* 44(5): 421-429, 2010.		**2т**
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	11.Rasia-Filho, A. Haas, D. de Oliveira, A. de Castilhos, J. Frey, R. Stein, D. Lazzari, V. Back, F. Pires, G. Pavesi, E. Winkelmann-Duarte, E. Giovenardi, M. Morphological and functional features of the sex steroid-responsive posterodorsal medial amygdala of adult rats. *Mini-Reviews in Medicinal Chemistry* 12(11): 1090-1106, 2012.		**2т**
	5. Lazarova, M., Popatanasov, A., Klissurov, R., Stoeva, S., Pajpanova, T., Kalfin, R., Tancheva, L. (2018). "Preventive Effect of Two New Neurotensin Analogues on Parkinson's Disease Rat Model." *Journal of Molecular Neuroscience*, 66 (4): 552-560		
цитирана в:	1. Rodríguez, B. Nani, J. Almeida, P. Brietzke, E. Lee, R. Hayashiad, M. Neuropeptides and oligopeptidases in schizophrenia. *Neuroscience and Biobehavioral Reviews* 108: 679-693, 2020.		**2т**
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	6. Tzvetanova, E., Georgieva, A., Alexandrova A., Tancheva L., Lazarova M., Dragomanova S., Alova L., Stefanova M., Kalfin R. (2018). **"Antioxidant mechanisms in neuroprotective action of lipoic acid on learning and memory of rats with experimental dementia." *Bulgarian Chemical Communications*, 50 (C): 52-57**		
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	3. Molz, P. de Freitas, B. Uberti, V. da Costa, K. Kist, L. Bogo, M. Schröder, N. Effects of lipoic acid supplementation on age-and iron-induced memory impairment, mitochondrial DNA damage and antioxidant responses. *European Journal of Nutrition* 60: 3679–3690, 2021.		**2т**
	4. Memudu, A. Adewumi A. Alpha lipoic acid ameliorates scopolamine induced memory deficit and neurodegeneration in the cerebello-hippocampal cortex. *Metabolic Brain Disease* 36 (7): 1729 – 1745, 2021.		**2т**
	7. Tancheva, L., Lazarova, M., Alexandrova, A., Dragomanova, S., Nicoletti, F., Tzvetanova, E., Hodzhev, Y., Kalfin, R., Miteva, S., Mazzon, E., Tzvetkov, N., Atanasov, A. (2020). "Neuroprotective mechanisms of three natural antioxidants on rat		

	model of Parkinson's disease: a comparative study." ***Antioxidants*****, 9 (1): 49**		
цитирана в:	1. Kujawska, M. Jourdes, M.Witucki, Ł. Karaźniewicz-Łada, M. Szulc, M. Górska, A. Mikołajczak, P.Teissedre, P. Jodynis-Liebert, J. Pomegranate Juice Ameliorates Dopamine Release and Behavioral Deficits in a Rat Model of Parkinson's Disease. *Brain Sciences* 11(9):1127, 2021.		**2т**
	2. Kurakula, M. Naveen N, R. Patel, B. Manne, R. Patel D. Preparation, Optimization and Evaluation of Chitosan-Based Avanafil Nanocomplex Utilizing Antioxidants for Enhanced Neuroprotective Effect on PC12 Cells. *Gels* 7(3):96, 2021.		**2т**
	3. Elmazoglu, Z. Galván-Arzate, S. Aschner, M. Rangel-López, E. Bayraktar, O. Santamaría, A. Karasu, Ç. Redox-active phytoconstituents ameliorate cell damage and inflammation in rat hippocampal neurons exposed to hyperglycemia+Aβ $_{1-42}$ peptide. *Neurochem International* 145:104993. 2021.		**2т**
	4. Balakrishnan, R. Azam, S. Cho, D. Su-Kim, I. Choi, D. Natural Phytochemicals as Novel Therapeutic Strategies to Prevent and Treat Parkinson's Disease: Current Knowledge and Future Perspectives. Oxidative Medicine and Cell Longevity 2021:6680935, 2021.		**2т**
	5. Tóth, F. Cseh, E. Vécsei L. Natural Molecules and Neuroprotection: Kynurenic Acid, Pantethine and α-Lipoic Acid. *International Journal of Molecular Sciences* 22(1):403, 2021.		**2т**
	6. Bjørklund,G. Peana, M. Maes, M. Dadar, M. Beatrice Severin B. The glutathione system in Parkinson's disease and its progression. *Neuroscience and Biobehavioral Reviews* 120:470-478, 2021.		**2т**
	7. Ardah, M. Bharathan, G. Kitada, T. Haque M. Ellagic Acid Prevents Dopamine Neuron Degeneration from Oxidative Stress and Neuroinflammation in MPTP Model of Parkinson's Disease. Biomolecules 10(11):1519, 2020.		**2т**
		Общо	**70т**

Изготвил справката:

(гл. ас. Мария Лазарова, дб)