**СПИСЪК НА ПУБЛИКАЦИИ И ПАТЕНТИ ОСЪЩЕСТВЕНИ С ФИНАНСИРАНЕ ПО НАЦИОНАЛНА ПЪТНА КАРТА ЗА НАУЧНА ИНФРАСТРУКТУРА**

**ОБЕКТ „НАУЧНА ИНФРАСТРУКТУРА ПО КЛЕТЪЧНИ ТЕХНОЛОГИИ В БИОМЕДИЦИНАТА – никтб (инфраакт)**

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**Публикации Q1:**

1. Iliev, I., Mavrova, A., Yancheva, D., Dimov, S., Staneva, G., Nesheva, A., Tsoneva, I., Nikolova, B, 2-Alkyl-Substituted-4-Amino-Thieno[2,3- d]Pyrimidines: Anti-Proliferative Properties to In Vitro Breast Cancer Models. Molecules, 28, (17), MDPI, **2023**, ISSN:1420-3049, DOI:10.3390/molecules28176347, 6347, IF 4.6, Q1.

<https://www.mdpi.com/1420-3049/28/17/6347>

1. Yordanova, V., R. Hazarosova, V. Vitkova, A. Momchilova, B. Robev, B. Nikolova, P. Krastev, P. Nuss, M.I. Angelova, G. Staneva, Impact of truncated oxidized phosphatidylcholines on phospholipase A2 activity in mono- and polyunsaturated biomimetic vesicles, International Journal of Molecular Sciences, **2023**, 24 (13), Article number 11166, IF 5.6, Q1.

<https://www.mdpi.com/1422-0067/24/13/11166>

1. Robev, B., I. Iliev, I. Tsoneva, A. Momchilova, A. Nehseva, A. Kostadinova, G. Staneva, B. Nikolova, Antitumor effects of Iscador on breast cancer cell lines with different metastatic potential, International Journal of Molecula International Journal of Molecular Sciences r Sciences**, 2023**, 24(6), 5247, IF 6.208, Q1.

<https://www.mdpi.com/1422-0067/24/6/5247>

1. Nanoarchitectonics of different types of spherical nucleic acids: biological evaluation K. Mladenova, E. Dimitrov, N. Toncheva-Moncheva, R. Kalinova, I. Dimitrov, P. Bakardzhiev, V. Moskova-Doumanova, S. Petrova, J. Doumanov, S. Rangelov, FEBS Open Bio, Volume 13, Supplement 2, July **2023**, (Q1, IF 3.864)

<https://doi.org/10.3390/molecules27134267>

1. Lozenov S, Krastev B, Nikolaev G, Peshevska-Sekulovska M, Peruhova M, Velikova T. Gut Microbiome Composition and Its Metabolites Are a Key Regulating Factor for Malignant Transformation, Metastasis and Antitumor Immunity. Int J Mol Sci. **2023;**24(6):5978. doi:10.3390/ijms24065978. IF 5.6
2. Abadjieva D, Georgiev B, Gerzilov V, Tsvetkova I, Taushanova P, Todorova K, Hayrabedyan S. Machine Learning Approach for Muscovy Duck (Cairina moschata) Semen Quality Assessment. Animals. **2023**; 13(10):1596, IF 3, Q1

<https://doi.org/10.3390/ani13101596>

1. Ivanova T, Mariienko Y, Mehterov N, Kazakova M, Sbirkov Y, Todorova K, Hayrabedyan S, Sarafian V. Autophagy and SARS-CoV-2-Old Players in New Games. International Journal of Molecular Sciences. **2023;** 24(9):7734, IF 5.6, Q1

<https://doi.org/10.3390/ijms24097734>

1. Mavrova A., Dimov S., Sulikovska I., Yancheva D., Iliev I., Tsoneva I., Staneva G., Nikolova B., Design, Cytotoxicity and Antiproliferative Activity of 4-Amino-5-methyl-thieno[2,3-d]pyrimidine-6-carboxylates against MFC-7 and MDA-MB-231 Breast Cancer Cell Lines, Molecules, **2022**, 27 (10), 3314, IF 4.927, Q1.

<https://www.mdpi.com/1420-3049/27/10/3314>

1. Nikolaev, Georgi, Ralitsa Robeva, and Rossitza Konakchieva. Membrane Melatonin Receptors Activated Cell Signaling in Physiology and Disease, International Journal of Molecular Sciences, **2022,** 23, 1: 471. **(Q1, IF 5.924)**

<https://doi.org/10.3390/ijms23010471>;

<https://www.mdpi.com/1422-0067/23/1/471>

1. Danailova Y, Velikova T, Nikolaev G, Mitova Z, Shinkov A, Gagov H, Konakchieva R. Nutritional Management of Thyroiditis of Hashimoto. Int J Mol Sci**. 2022** May 5;23(9):5144, IF 5.9, Q1

doi: 10.3390/ijms23095144. PMID: 35563541; PMCID: PMC9101513,

<https://www.mdpi.com/1422-0067/23/9/5144>

1. Jordan A. Doumanova, Kirilka Mladenova, Vesselina Moskova-Doumanova, Tonya D. Andreeva, Svetla D. Petrova. Self-organization and surface properties of hBest1 in models of biological membranes. Advances in Colloid and Interface Science, accepted February **2022**, (302)102619, **(Q1, IF 15.19)**

<https://doi.org/10.1016/j.cis.2022.102619>

1. Pavel Videv, Kirilka Mladenova, Tonya D. Andreeva, Jong Hun Park, Veselina Moskova-Doumanova , Svetla D. Petrova and Jordan A. Doumanov, Cholesterol Alters the Phase Separation in Model Membranes Containing hBest1, Molecules**, 2022**, 27, 4267. **(Q1, IF 4.927)**

<https://doi.org/10.3390/molecules27134267>

1. Velikova T, Krastev B, Lozenov S, Gencheva R, Peshevska-Sekulovska M, Nikolaev G, Peruhova M. Antibiotic-Related Changes in Microbiome: The Hidden Villain behind Colorectal Carcinoma Immunotherapy Failure. International Journal of Molecular Sciences, **2021,** 22, 1754. **(Q1, IF 5.924)**

<https://doi.org/10.3390/ijms22041754>

<https://www.mdpi.com/1422-0067/22/4/1754>

1. Chichova, M., Tasinov, O., Shkodrova, M., Mishonova, M., Sazdova, I., Ilieva, B., Doncheva-Stoimenova, D., Kiselova-Kaneva, Y., Raikova, N. Uzunov, B. Ivanova, D., Gagov, H**.** New Data on Cylindrospermopsin Toxicity. Toxins **2021,** 13, 41. **( Q1, IF 4.456)**

<https://doi.org/10.3390/toxins13010041>

<https://www.mdpi.com/2072-6651/13/1/41>

1. Vitkova, V., V. Yordanova, G. Staneva, O. Petkov, A. Stoyanova-Ivanova, K. Antonova, G. Poprikov, Dielectric properties of phosphatidylcholine membranes and the effect of sugars, Membranes, **2021**, 11 (11), 847, IF 4.2, Q1.

<https://www.mdpi.com/2077-0375/11/11/847>

1. Nikola Mladenov, Svetla D. Petrov, Kirilka Mladenova, Desislava Bozhinova, Veselina Moskova-Doumanov, Tanya Topouzova-Hristova, Pavel Videv, Ralitsa Veleva, Aneliya Kostadinova, Galya Staneva, Tonya D. Andreeva, Jordan A. Doumanov. Miscibility of hBest1 and sphingomyelin in surface films – A prerequisite for interaction with membrane domains. Colloids and Surfaces B: Biointerfaces, 189, 110893, May **2020**, **(Q1, IF 5.268)**

<https://doi.org/10.1016/j.colsurfb.2020.110893>

<https://pubmed.ncbi.nlm.nih.gov/32113084/>

1. Vitkova, V., D. Mitkova, V. Yordanova, P. Pohl, U. Bakowsky, G. Staneva, O. Batischev, Elasticity and phase behavior of biomimetic membrane systems containing tetraether archael lipids, Colloids and Surfaces A: Physicochemical and Engineering Aspects**, 2020**, 601, 124974, **IF 5.2, Q1.**

<https://www.sciencedirect.com/science/article/abs/pii/S0927775720305677>

1. Puff N., G. Staneva, M.I. Angelova, M. Seigneuret, Improved Characterization of Raft-Mimicking Phase-Separation Phenomena in Lipid Bilayers Using Laurdan Fluorescence with Log-Normal Multipeak Analysis, Langmuir, 36 (16), **2020**, 4347-4356, ISSN: 07437463, **(Q1, IF 3.75)**

<https://dx.doi.org/10.1021/acs.langmuir.0c00412>

<https://pubs.acs.org/doi/10.1021/acs.langmuir.0c00412>

1. Tzoneva R, Stoyanova T, Petrich A, Petrich A, Popova D, Uzunova V, Momchilova A, Chiantia S. Effect of Erufosine on Membrane Lipid Order in Breast Cancer Cell Models. Biomolecules. **2020**;10(5):802. **(Q1, IF 4.694 )**

<https://doi:10.3390/biom10050802>

<https://www.mdpi.com/2218-273X/10/5/802>

1. Veselina Uzunova, Rumiana Tzoneva, Tihomira Stoyanova, Roumen Pankov, Ralica Skrobanska, Georgi Georgiev, Liliana Maslenkova, Zlatan Tsonchev, Albena Momchilova. Dimethylsphingosine and miltefosine induce apoptosis in lung adenocarcinoma A549 cells in a synergistic manner. Chemico-Biological Interactions, 310, 1, **2019**, 108731 **(Q1, IF 5.192 )**

<https://doi.org/10.1016/j.cbi.2019.108731>

<https://www.sciencedirect.com/science/article/abs/pii/S0009279719303199?via%3Dihub>

**Публикации Q2**

1. Velichkov, A., Susurkova, R., Muhtarova, M., Guenova, M., Charmeteau-de Muylder, B., Cheynier, R., Nikolov, G., Konova, E., & Terzieva, V. Decreased ratio of FOXP3+/FOXP3-CD45RA+CD4+ T cells in peripheral blood is associated with unexplained infertility and ART failure. Journal of Reproductive Immunology**, 2023**; 155:103793, **IF 3.4, Q2**

<https://doi.org/10.1016/j.jri.2022.103793>

1. Kostadinova, A., R. Hazarosova, T. Topouzova-Hristova, D. Moyankova, V. Yordanova, R. Veleva, B. Nikolova, A. Momchilova, D. Djilianov, G. Staneva, Myconoside interacts with the plasma membranes and the actin cytoskeleton and provokes cytotoxicity in human lung adenocarcinoma A549 cells, Journal of Bioenergetics and Biomembranes, **2022**, 54 (1), 31-43, IF 3.853, Q2.

<https://link.springer.com/article/10.1007/s10863-021-09928-x>

1. Kostadinova, A., Staneva G., T. Topouzova-Hristova, D. Moyankova, V. Yordanova, R. Veleva, B. Nikolova, A. Momchilova, D. Djilianov, R. Hazarosova, Myconoside affects the viability of polarized epithelial MDCKII cell line by interacting with the plasma membrane and the apical junctional complexes, Separations, **2022**, 9, 9, 239**, IF 3.344, Q2**.

<https://www.mdpi.com/2297-8739/9/9/239>

1. Tsoneva I., Semkova S., Bakalova R., Zhelev Z., Nuss P., Staneva G., Nikolova B., Electroporation, electrochemotherapy and electro-assisted drug delivery in cancer. A state-of-the-art review, Biophysical Chemistry, **2022**, 286, 106819, **IF 3.628, Q2.**

<https://pubmed.ncbi.nlm.nih.gov/35605496/>

1. Sbirkov, Y., Dzharov, V., Todorova, K., Hayrabedyan, S., & Sarafian, V. Endothelial inflammation and dysfunction in COVID-19. VASA. **2022**; 51(2):62-70, **IF 2.336, Q2.**

<https://doi.org/10.1024/0301-1526/a000991>

1. Videv, Pavel, Nikola Mladenov, Tonya Andreeva, Kirilka Mladenova, Veselina Moskova-Doumanova, Georgi Nikolaev, Svetla D. Petrova, and Jordan A. Doumanov. Condensing Effect of Cholesterol on hBest1/POPC and hBest1/SM Langmuir Monolayers, Membranes **2021,** 11, 1, 52. **(Q2, IF 4.106)**

<https://doi.org/10.3390/membranes11010052>

<https://www.mdpi.com/2077-0375/11/1/52>

1. Mladenov, N (Mladenov, N.) Petrova, S (Petrova, S.) Andreeva, T (Andreeva, T.) Moskova-Doumanova, V (Moskova-Doumanova, V.) Videv, P (Videv, P.) Mladenova, K (Mladenova, K.) Doumanov, J (Doumanov, J.). Effect of cholesterol on mixed hBest1/lipid monolayers. FEBS OPEN BIO, **2021**, Volume11, Page 224-224, Supplement 1, **(Q2, IF 2.693)**

<https://doi.org/10.1002/2211-5463.13205>

<https://www.webofscience.com/wos/woscc/full-record/WOS:000668898601061>

1. Vitkova V, Yordanova V, **Staneva G**, Petkov O, Stoyanova-Ivanova A, Antonova K, Popkirov G. [Dielectric Properties of Phosphatidylcholine Membranes and the Effect of Sugars.](https://pubmed.ncbi.nlm.nih.gov/34832076/)  Membranes (Basel), **2021**, Oct 30;11(11):847 **(Q2, IF 4.106)**

<https://doi.org/10.3390/membranes11110847>

1. Peruhova M, Peshevska-Sekulovska M, Krastev B, Panayotova G, Georgieva V, Konakchieva R, Nikolaev G, Velikova TV. What could microRNA expression tell us more about colorectal serrated pathway carcinogenesis? World J Gastroenterol **2020;** 26(42): 6556-6571 **(Q2, IF 5.742)**

<https://doi:10.3748/wjg.v26.i42.6556>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7673963/>

1. Sazdova I., Keremidarska-Markova M., Chichova M., Uzunov B., Georgiev G., Mladenov M., Schubert R., Stoyneva-Gärtner M., Gagov H. S. Review of Cyanotoxicity Studies Based on Cell Cultures. J. Toxicol. **2022**, SJR 0.716 (2021)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9061046/>

1. Pankov R, Momchilova A, Stefanova N, Yamada KM. Characterization of stitch adhesions: Fibronectin-containing cell-cell contacts formed by fibroblasts. Exp Cell Res. **2019,** 1;384(1):111616 **(Q2, IF=3,905)**

<https://doi:10.1016/j.yexcr.2019.111616>

<https://pubmed.ncbi.nlm.nih.gov/31499058/>

1. Tanovska, M., Rahmani, M., Mihaleva, L. V., Berger, M., Neshev, D., Momchilova, A., & Tzoneva, R. (2019, February). An ellipsometric study of interaction of anti-cancer agent erufosine on lipid model systems. In AIP Conference Proceedings (Vol. 2075, No. 1, p. 170011). AIP Publishing LLC.

<https://doi.org/10.1063/1.50913>

<https://aip.scitation.org/doi/abs/10.1063/1.50913>

**ПУБЛИКАЦИИ q3**

1. Avramska E., Tsvetkova I., Todorova K., Hayrabedyan S. TLR4 signalling protects Sertoli cells from cell stress via reprogramming inflammasome and autophagy pathways in MAPK1/ERK2 dependent way. Biotechnology & Biotechnological Equipment. **2023**; Accepted. **IF 1.762, Q3**
2. Tsvetankova R., Tsvetkova I., Hayrabedyan S., Todorova K. Restoring Mitophagy in Prostate Cancer Cells: The Role of miR-141 Rescue in Counteracting MAPK1/ERK2-Dependent Autophagy Suppression. Biotechnology & Biotechnological Equipment. 2023; Submitted, under review; IF 1.762, Q3
3. Tsvetankova, R., Tsvetkova, I., Apostolova, A., Hayrabedyan, S., & Todorova, K. Combined microRNA-141 Rescue and MAPK1 Silencing as Putative Strategy to Support Chemotherapy in Translational Stage towards Metastatic Castration-resistant Prostate Cancer – an In Vitro Model Study. C. R. Acad. Bulg. Sci**. 2023**; 76(8):1286–1296, **IF 0.378, Q3.**

<https://doi.org/10.7546/CRABS.2023.08.15>

1. Yordan Sbirkov, Vasil Dzharov, Krassimira Todorova, Soren Hayrabedyan, and Victoria Sarafian. Endothelial inflammation and dysfunction in COVID-19. Vasa - European Journal of Vascular Medicine, **2022** **(Q3, IF 1.961)**

<https://doi.org/10.1024/0301-1526/a000991>

<https://econtent.hogrefe.com/doi/10.1024/0301-1526/a000991>

1. Yordanova V., Hazarosova R., Vitkova V., Kostadinova A., Angelova M., Momchilova A., Krastev P., Staneva G., Oxidized lipids control lipid order and phospholipase A2 activity in model membranes, Comptes Rendus de L'Academie Bulgare des Sciences, **2022**, 75 (4), 581 – 589, **IF 0.19, Q3**.

<https://www.proceedings.bas.bg/index.php/cr/article/view/68>

1. Tsvetkov, T., Petrova, N., & Daskalova, D. Addition of seminal plasma proteins effecting the in- vitro kinetic properties of canine spermatozoa. Veterinární Medicína. **2022;** 67(7):365–370, **IF 0.74, Q3**

<https://doi.org/10.17221/139/2021-VETMED>

1. Tsvetkova, I., Tsvetankova, R., Todorova, K., & Hayrabedyan, S. The Effect of CD300A Receptor on Caspase-1 Activity in the Context of Cell Death and on Its Activators Nlrp3 and Asc in Sertoli Cells. C. R. Acad. Bulg. Sci. **2022**; 75(12):1830–1839, **IF 0.378, Q3**

<https://doi.org/10.7546/CRABS.2022.12.15>

1. Hayrabedyan, S., Kostova, P., Zlatkov, V. & Todorova, K. Single-cell transcriptomics in the context of long-read nanopore sequencing, Biotechnology and Biotechnological Equipment, **2021,** vol. 35, no. 1, pp. 1439-1451. **(Q3, IF 1.632)**

<https://doi.org/10.1080/13102818.2021.1988868>

<https://www.tandfonline.com/doi/full/10.1080/13102818.2021.1988868>

**ПУБЛИКАЦИИ q4**

1. Ivanova, I., R. Toshkovska, L. Yocheva, D. Benkova, V. Yordanova, A. Nesheva, R. Hazarosova, G. Staneva, A. Kostadinova, Stress response of gram-positive and gram-negative bacteria induced by metal and nonmetal nanoparticles. In search of smart antimicrobial agents, Lecture notes in networks and systems**, 2023**, 658, 147-155, SJR 0.15, Q4.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85161556478&origin=resultslist&sort=plf-f>

1. Yordanova, V., G. Staneva, P. Krastev, T. Markovska, A-M. Marinovska, A. Kostadinova, R. Hazarosova, A. Momchilova, Lipid order of membranes isolated from erythrocytes of patients with coronary artery disease: correlation with biochemical parameters, Lecture notes in networks and systems**, 2023**, 658, 134-146, **SJR 0.15, Q4.**

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85161580114&origin=resultslist&sort=plf-f>

1. Kostadinova, A., G. Staneva, D. Benkova, V. Yordanova, R. Hazarosova, R. Veleva, A. Nesheva, A. Momchilova, R. Yankova, H. Elzorkany, H. Elshoky, Interactions of chitosan-based nanoparticles with bioinspired membranes, Oxidation Communications, **2021**, 44 (1), 63-71, **SJR 0.196, Q4**.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85105349352&origin=resultslist&sort=plf-f>

<https://scibulcom.net/en/article/J6Cj1xia2sEpi6FTbv3l>

1. Staneva, G., C. Watanabe, N. Puff, V. Yordanova, M. Seigneuret, M. I. Angelova, Amyloid-beta interactions with lipid rafts in biomimetic systems: A review of laboratory methods, Methods in Molecular Biology, chapter, **2021,** 2187, 47-86, **SJR 0.422, Q4.**

<https://pubmed.ncbi.nlm.nih.gov/32770501/>

1. Vitkova, V., R. Hazarosova, K. Antonova, D. Mitkova, V. Yordanova, A. Momchilova, G. Staneva, Resveratrol stiffens 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine bilayers, Lecture notes in networks and systems, **2020**, 374, 363-371, **SJR 0.15, Q4**.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85127043108&origin=resultslist&sort=plf-f>

1. Yordanova, V., G. Staneva, V. Vitkova, M. Angelova, A. Kostadinova, D. Benkova, R. Veleva, A. Nesheva, R. Hazarosova, Biomimetic vesicles as a tool to reveal the physico-chemical membrane changes induced by oxidized lipids, Oxidation Communications, **2020**, 43 (4), 678-687, **SJR 0.196, Q4.**

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85111467797&origin=resultslist&sort=plf-f>

<https://scibulcom.net/en/article/4icyEjRjBK47FTTWK1JO>

1. Ilieva B, H Gagov, M Chichova, I Sazdova (**2020)** Comparison of Catecholamine Physiological Effects in Vertebrates: Systematic Review, ACTA ZOOLOGICA BULGARICA, [72 (2), 171-178](callto:72%20(2),%20171-178)

<https://www.acta-zoologica-bulgarica.eu/downloads/acta-zoologica-bulgarica/2020/002390.pdf>

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