

## СПИСЪК С ПУБЛИКАЦИИ СЛЕД ПРИДОБИВАНЕ НА ОНС „ДОКТОР“

НА АС. Д-Р ИНЖ. ДОНИКА ГЕОРГИЕВА ИВАНОВА

ЗА УЧАСТИЕ В КОНКУРС ЗА ЗАЕМАНЕ НА АКАДЕМИЧНА ДЛЪЖНОСТ ДОЦЕНТ В ОБЛАСТ НА  
ВИШЕТО ОБРАЗОВАНИЕ 4. ПРИРОДНИ НАУКИ, МАТЕМАТИКА И ИНФОРМАТИКА,  
ПРОФЕСИОНАЛНО НАПРАВЛЕНИЕ 4.2. ХИМИЧЕСКИ НАУКИ, ПО НАУЧНА СПЕЦИАЛНОСТ  
„БИООРГАНИЧНА ХИМИЯ, ХИМИЯ НА ПРИРОДНИТЕ И ФИЗИОЛОГИЧНО АКТИВНИТЕ  
ВЕЩЕСТВА“, КЪМ КАТЕДРА „ФАРМАКОЛОГИЯ, ФИЗИОЛОГИЯ НА ЖИВОТНИТЕ, БИОХИМИЯ И  
ХИМИЯ“, ВЕТЕРИНАРНОМЕДИЦИНСКИ ФАКУЛТЕТ, ТРАКИЙСКИ УНИВЕРСИТЕТ,  
ОБЯВЕН В ДВ БР.30/15.04.2022 Г.

### 1. МАТЕРИАЛИ ПО ПОКАЗАТЕЛ „В“

СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ В ИЗДАНИЯ, КОИТО СА РЕФЕРИРАНИ И ИНДЕКСИРАНИ В  
СВЕТОВНОИЗВЕСТНИ БАЗИ ДАННИ С НАУЧНА ИНФОРМАЦИЯ (WEB OF SCIENCE И SCOPUS) ПО  
ПОКАЗАТЕЛ В

- B1.** Zhelev Z., **D. Ivanova**, I.Aoki, T. Saga, and R. Bakalova. – 2-Deoxy-D-glucose sensitizes cancer cells to Barasertib and Everolimus by ROS-independent mechanism(s), *Anticancer Res.*, 2015, 35(12), 6623-6632, IF<sub>2015</sub> = 1.895 (Q3), SJR = 0,829 (Q2); <https://ar.iiarjournals.org/content/anticanres/35/12/6623.full.pdf>
- B2.** Zhelev Z., **D. Ivanova**, R. Bakalova, I. Aoki, and T. Saga. – Inhibition of pentose-phosphate pathway through 6-aminonicotinamide sensitizes leukemia lymphocytes, but not normal lymphocytes, to chemotherapeutics by ROS-independent mechanism, *Anticancer Res.*, 2016, 36(11), 6011-6020, IF<sub>2016</sub> = 1.937 (Q3), SJR = 0,769 (Q2); *doi:10.21873/anticanres.11190*  
<https://ar.iiarjournals.org/content/anticanres/36/11/6011.full.pdf>
- B3.** Zhelev Z., **D. Ivanova**, D. Lazarova, I. Aoki, R. Bakalova, and T. Saga. – Docosahexaenoic acid sensitizes leukemia lymphocytes to barasertib and everolimus by ROS-dependent mechanism without affecting the level of ROS and viability of normal lymphocytes, *Anticancer Res.*, 2016, 36(4), 1673-1682, IF<sub>2016</sub> = 1.937 (Q3), SJR = 0,769 (Q2); <https://ar.iiarjournals.org/content/anticanres/36/4/1673.full.pdf>
- B4.** Zhelev Z., **D. Ivanova**, R. Bakalova, I. Aoki, and T. Higashi. – Synergistic cytotoxicity of melatonin and new-generation anticancer drugs against leukemia lymphocytes, but

not normal lymphocytes, *Anticancer Res.*, 2017, 37(1), 149-159, IF<sub>2017</sub> = 1.865 (Q4), SJR = 0,717 (Q2); doi:10.21873/anticancerres.11300

<https://ar.iarjournals.org/content/anticancerres/37/1/149.full.pdf>

- B5. Ivanova D., Z. Zhelev, D. Lazarova, P. Getsov, R. Bakalova, I. Aoki.** - Vitamins C and K3: a powerful redox system for sensitizing leukemia lymphocytes to everolimus and barasertib, *Anticancer Res.*, 2018, 38(3), 1407-1414, IF<sub>2018</sub> = 1.935 (Q4), SJR = 0,722 (Q2); doi:10.21873/anticancerres.12364

<https://ar.iarjournals.org/content/anticancerres/38/3/1407.full.pdf>

- B6. Ivanova D., Z. Zhelev, S. Semkova, I. Aoki, R. Bakalova.** - Resveratrol modulates the redox-status and cytotoxicity of anticancer drugs by sensitizing leukemic lymphocytes and protecting normal lymphocytes, *Anticancer Res.*, 2019, 39(7), 3745-3755, IF<sub>2019</sub> = 1.994 (Q4), SJR = 0,716 (Q2); doi:10.21873/anticancerres.13523

<https://ar.iarjournals.org/content/anticancerres/39/7/3745.full.pdf>

- B7. Ivanova D., Z. Zhelev, G. Zlateva, D. Lazarova, Z. Yaneva, R. Panovska, I. Aoki, R. Bakalova.** – Effect of alpha-tocopheryl succinate on the cytotoxicity of anticancer drugs towards leukemia lymphocytes, *Anticancer Res.*, 2022, 42(1), 547 – 554, IF<sub>2020</sub> = 2.480 (Q4), SJR = 0,735 (Q2); <https://doi.org/10.21873/anticancerres.15512>

- B8. Ivanova D., Z. Yaneva, R. Bakalova, S. Semkova, Zh. Zhelev.** -The antimalaria drug artemisinin displays strong cytotoxic effect on leukaemia lymphocytes in combination with vitamin C and pro-vitamin K3. *Bulgarian Journal of Veterinary Medicine*, 2021, 24(4), 533 – 543, SJR<sub>2020</sub> = 0,211 (Q3); DOI: 10.15547/bjvm.2019-0134

<http://www.uni-sz.bg/bjvm/BJVM%20December%202021%20p.533-543.pdf>

- B9. Bakalova R., E. Georgieva, D. Ivanova, Z. Zhelev, I. Aoki, and T. Saga.** – Magnetic resonance imaging of mitochondrial dysfunction and metabolic activity, accompanied by overproduction of superoxide, *ACS Chem. Neurosci.*, 2015, 6(12), 1922-1929, IF<sub>2015</sub> = 4.096 (Q1), SJR = 1,819 (Q1); DOI: 10.1021/acschemneuro.5b00220

- B10. Ivanova D., Z. Zhelev, I. Aoki, R. Bakalova, and T. Higashi.** – Overproduction of reactive oxygen species – obligatory or not for induction of apoptosis by anticancer drugs? *Chin. J. Cancer Res.*, 2016, 28(4), 383-396, IF<sub>2016</sub> = 3.000 (Q2), SJR = 0,939 (Q2). doi: 10.21147/j.issn.1000-9604.2016.04.01

[http://www.cjcrn.org/article/html\\_9664.html](http://www.cjcrn.org/article/html_9664.html)

### 3. МАТЕРИАЛИ ПО ПОКАЗАТЕЛ „Г“

3.1. СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ В ИЗДАНИЯ, КОИТО СА РЕФЕРИРАНИ И ИНДЕКСИРАНИ В СВЕТОВНОИЗВЕСТНИ БАЗИ ДАННИ С НАУЧНА ИНФОРМАЦИЯ (WEB OF SCIENCE И SCOPUS), ИЗВЪН ХАБИЛИТАЦИОННИЯ ТРУД - ПО ПОКАЗАТЕЛ Г

**Г1.** Georgieva E., **D. Ivanova**, Z. Zhelev, R. Bakalova, M. Gulubova, and I. Aoki. – Mitochondrial dysfunction and redox imbalance as a diagnostic marker of “free radical diseases”, *Anticancer Res.*, 2017, 37(10), 5373-5381, IF<sub>2017</sub> = 1.865 (Q4), SJR = 0,717 (Q2);

[DOI: 10.21873/anticancerres.11963](https://doi.org/10.21873/anticancerres.11963); <https://ar.iijournals.org/content/37/10/5373.abstract>

**Г2.** **Ivanova D.**, Zh. Zhelev, P. Getsov, B. Nikolova, I. Aoki, T. Higashi, R. Bakalova. - Vitamin K: Redox-modulation, prevention of mitochondrial dysfunction and anticancer effect, *Redox Biology*, 2018, 16, 352-358, IF<sub>2018</sub> = 7.793 (Q1), SJR = 2,166 (Q1); [DOI:10.1016/j.redox.2018.03.013](https://doi.org/10.1016/j.redox.2018.03.013);

<https://www.sciencedirect.com/science/article/pii/S2213231718300934?via%3Dihub>

**Г3.** Yaneva Z., **D. Ivanova**, N. Nikolova, M. Tzanova. – The 21st century revival of chitosan in service to bio-organic chemistry, *Biotechnology & Biotechnological Equipment*, 2020, 34(1), 221 – 237. IF<sub>2020</sub> = 1.632 (Q4), SJR = 0,417 (Q3);

<https://www.tandfonline.com/doi/full/10.1080/13102818.2020.1731333>

**Г4.** **Ivanova D.**, Z. Yaneva. - Antioxidant properties and redox-modulating activity of chitosan and its derivatives: biomaterials with application in cancer therapy, *BioResearch Open Access*, 2020, vol. 9(1), 64–72, SJR<sub>2020</sub> = 0,457 (Q3); [DOI: 10.1089/biores.2019.0028](https://doi.org/10.1089/biores.2019.0028);

<https://www.liebertpub.com/doi/10.1089/biores.2019.0028>

**Г5.** Tzanova M., V. Atanasov, Z. Yaneva, **D. Ivanova**, T. Dinev – Selectivity of current extraction techniques for flavonoids from plant materials, *MDPI, Processes*, 2020, vol.8, 1222, p. 1-30, IF<sub>2020</sub> = 2.847 (Q3), SJR = 0,414 (Q2);

<https://doi.org/10.3390/pr8101222>

**Г6.** Bakalova R., S. Semkova, **D. Ivanova**, Z. Zhelev, T. Miller, T. Takeshima, S. Shibata, D. Lazarova, I. Aoki, T. Higashi. – Selective targeting of cancerous mitochondria and suppression of tumor growth using redox-active treatment adjuvant,

*Oxidative Medicine and Cellular Longevity*, 2020, art. number 6212935, IF<sub>2020</sub> = 6.543 (Q2), SJR = 1.494 (Q1); DOI: [10.1155/2020/6212935](https://doi.org/10.1155/2020/6212935); <https://www.hindawi.com/journals/omcl/2020/6212935/>

**Г7.** Yaneva Z., E.B. Simeonov, **D.G. Ivanova**. – In vitro ultraviolet-B radiation mediated antioxidant response of Bulgarian Goldenrod (*Solidago virgaurea* L.) extract, *Bulgarian Chemical Communications*, 2020, 52, 33 – 40. SJR<sub>2020</sub> = 0,179 (Q4); [http://bcc.bas.bg/BCC\\_Volumes/Volume\\_52\\_Special\\_D\\_2020/BCC-52-D-2020-33-40-Yaneva-B03.pdf](http://bcc.bas.bg/BCC_Volumes/Volume_52_Special_D_2020/BCC-52-D-2020-33-40-Yaneva-B03.pdf)

**Г8.** Yaneva Z., **D. Ivanova**, G. Beev, K. Besheva. – Quantification of catechin in Acacia catechu extract by non-derivative, first derivative UV/Vis spectrophotometry and FT-IR spectroscopy, *Bulgarian Chemical Communications*, 2020, 52, 41 – 47. SJR<sub>2020</sub> = 0,179 (Q4); [http://bcc.bas.bg/BCC\\_Volumes/Volume\\_52\\_Special\\_D\\_2020/BCC-52-D-2020-41-47-Yaneva-B04.pdf](http://bcc.bas.bg/BCC_Volumes/Volume_52_Special_D_2020/BCC-52-D-2020-41-47-Yaneva-B04.pdf)

**Г9.** Yaneva Z., **D. Ivanova**. – Catechins within the biopolymer matrix-design concepts and bioactivity prospects, *Antioxidants*, 2021, 9(12), art. number 1180. IF<sub>2020</sub> = 6.313 (Q1), SJR = 1,067 (Q2); DOI: [10.3390/antiox9121180](https://doi.org/10.3390/antiox9121180); <https://www.mdpi.com/2076-3921/9/12/1180>

**Г10.** Semkova S., **D. Ivanova**, B. Nikolova, G. Zlateva, R. Bakalova, Z. Zhelev, I. Aoki – Inhibition of ATP-synthase potentiates cytotoxicity of combination drug menadione/ascorbate in leukemia lymphocytes, *Biotechnology & Biotechnological Equipment*, 2021, 35(1), 1738 – 1744. IF<sub>2020</sub> = 1.632 (Q4), SJR = 0,417 (Q3); <https://doi.org/10.1080/13102818.2021.1996268>

**Г11.** Yaneva Z., **D. Ivnova**, N. Popov – Clinoptiolite microparticles as carriers of catechin-rich Acacia catechu extracts: microencapsulation and in vitro release study, *Molecules*, 2021, 26(6), art. number 1655. IF<sub>2020</sub> = 4.412 (Q2), SJR = 0,782 (Q1); DOI: [10.3390/molecules26061655](https://doi.org/10.3390/molecules26061655); <https://www.mdpi.com/1420-3049/26/6/1655>

**Г12.** Yaneva Z., E. Simeonov, N. Rusenova, **D. Ivanova**, G. Nikolova, Y. Karamalakova, C. Chilev, G. Beev. – Flavonoids extraction kinetics, antimicrobial activity and radical scavenging potential of Bulgarian Woundwort (*Solidago virgaurea* L.), *Separations*, 2022, 9(2), art. number 27. IF<sub>2020</sub> = 2.777 (Q3), SJR = 0,485 (Q2); <https://doi.org/10.3390/separations9020027>

**Г13.** Nikolova N., **D. Ivanova**, Z. Yaneva. – In vivo radioprotective potential of newly synthesized azomethine and styrylquinoline derivatives and a natural polyphenol: a preliminary study, *Life-Basel*, 2022, 12(3), art. number 346. IF<sub>2020</sub> = 3.817 (Q2); DOI: [10.3390/life12030346](https://doi.org/10.3390/life12030346); <https://www.mdpi.com/2075-1729/12/3/346>

**Г14.** Yaneva Z., **D. Ivanova**, N. Nikolova, M. Toneva. – Organic dyes in contemporary medicinal chemistry and biomedicine. I. From the chromophore to the bioimaging/bioassay agent, *Biotechnology & Biotechnological Equipment*, 2022, 36(1), 1 – 14. IF<sub>2020</sub> = 1.632 (Q4), SJR = 0,417 (Q3). <https://doi.org/10.1080/13102818.2022.2039077>

Изготвил:.....

/ас. д-р Доника Георгиева Иванова/