

СПИСЪК НА ТРУДОВЕТЕ
на чл.-кор. проф. дбн Илга Константинова Пъжева
за участие в конкурса за избор на академици на БАН - 2021

Трудовете са групирани както следва:

- I.** Публикации в списания с импакт-фактор (IF): **78**
- II.** Публикации в списания и тематични поредици със SCImago Journal Rank (SJR): **6**
- III.** Публикации в рецензирани периодични издания без IF и SJR: **22**
- IV.** Публикации в рецензирани тематични поредици, книги и сборници от национални и международни научни форуми: **24**
- V.** Глави от книги: **8** (в т.ч. 3 със SJR)
- VI.** Дисертации: **2**
- VII.** Редакции на книги (съставителство): **3**
- VIII.** Други трудове, в т.ч. с публицистичен характер: **12**

I. Публикации в списания с импакт-фактор (IF):

Статии на английски език (в хронологичен ред):

1. **Pajeva, I.K.**, Z.C.Lateva, and G.V.Dimitrov. BACOMP - Database of Bioactive Compounds for Structure - Activity Relationship, *Int. J. Bio-Med.Comput.*, **1986**, 18, 7-24.
IF=0.740 (1992)
2. **Pajeva, I.**, E.Golovinsky. Substructural Analysis of Antineoplastic Drugs in respect of *in Vivo* Tumor Models, *Quant.Struct.-Act.Relat.*, **1990**, 9, 216-222.
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4. Dimitrov,G.V.,N.A.Dimitrova, **I.K. Pajeva**. The threshold stimulation and accomodation of a Hodgkin-Huxley axon, *Gen.Physiol.Biophys.*, **1992**, 11, 59-68.
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5. **Pajeva, I.K.**, D.K.Todorov. Studies of Doxorubicin in model membranes: relation to the mechanism of action and multidrug resistance, *Compt. rend. Acad. bulg. Sci.*, **1995**, 48 (11-12), 159-162.
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9. **Pajeva, I.K.**, D.K.Todorov: Study of Thaliblastine in model membranes: relation to mechanism of action and multidrug resistance, *Compt. rend. Acad. bulg. Sci.*, 50(2), **1997**, 69-72.
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10. Timcheva, C., **I.Pajeva**, D.Todorov: Calcium channel blockers verapamil and diltiazem as modulators of multidrug resistance in tumours, *Compt. rend. Acad. bulg. Sci.*, **1997**, 50 (5) 137-140.
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12. **Pajeva, I.K.**, M.Wiese: Molecular modeling of phenothiazines and related drugs as multidrug resistance modifiers: a comparative molecular field analysis study, *J. Med. Chem.*, **1998**, 41, 1815-1826.
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 13. **Pajeva, I.K.**, M.Wiese: A comparative molecular field analysis of propafenone-type modulators of cancer multidrug resistance, *Quant. Struct.-Act. Relat.*, **1998**, 17, 301-312.
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 14. Todorov, D.K., M.V. Ilarionova, K.B. Timcheva, **I.K.Pajeva**: Antitumor activity of a *Dionaea Muscipula* E.preparation *Carnivora* □ new in vitro and in vivo on animal and human tumors, sensitive and resistant to antitumor drugs, *Biotechnol. Biotechn. Eq.*, 12(2), **1998**, 61-66.
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 17. Wiese, M., **I. Pajeva**. Structure-activity relationships of multidrug resistance reversers, *Curr. Med. Chem.*, **2001**, 8, 685-713.
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 18. **Pajeva, I.K.**, M. Wiese. Human P-glycoprotein pseudoreceptor modeling: 3D-QSAR study of thioxanthene type multidrug resistance modulators, *Quant. Str.-Act. Relat.*, **2001**, 20, 130-138.
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 19. **Pajeva, I.K.**, M. Wiese. Multidrug resistance related drugs: estimation of hydrophobicity as a space directed molecular property, *Compt. rend. Acad. bulg. Sci.*, **2001**, Tome 54, 11, 81-84.
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 21. Lesigiarska I., **I. Pajeva**, S. Yanev. QSAR and 3D QSAR analysis of a series of xanthates as inhibitors and inactivators of cytochrome P-450 2B1, *Xenobiotica*, **2002**, 32 (16), 1063-1077.
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 24. **Pajeva I.**, D.K. Todorov, J.K. Seydel. Membrane effects of the antitumor drugs doxorubicin and thaliblastine: comparison to multidrug resistance modulators verapamil and trans-flupentixol, *Europ. J. Pharm. Sci.*, **2004**, 21(2-3), 243-250.
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 25. **Pajeva, I.K.**, C. Globisch, M. Wiese. Structure-Function Relationships of Multidrug Resistance P-glycoprotein, *J. Med. Chem.*, **2004**, 47 (10), 2523-2533.
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 26. **Pajeva, I.K.**, J.K. Seydel, D. K. Todorov. Interactions of the anticancer drugs doxorubicin and thaliblastine with model membranes and their relation to multidrug resistance, *Biotechnol. Biotechn. Eq.*, **2004**, 18 (1), 132-139.
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33. Tsakovska I., **I. Pajeva**. Phenothiazines and structurally related compounds as modulators of cancer multidrug resistance. *Curr Drug Targets*, **7**, **2006**, 1123-1134.
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61. Alov, P., I. Tsakovska, **I. Pajeva**. Quantitative structure-property relationship modelling of antiradical properties of natural polyphenols using EVA vector descriptor approach. *Comptes rendus de l'Academie bulgare des Sciences*, 69 (9), **2016**, 1145-1152.
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63. Al Sharif M., I. Tsakovska, **I. Pajeva**, P. Alov, E. Fioravanzo, A. Bassan, S. Kovarich, C. Yang, A. Mostrag-Szlichtyng, V. Vitcheva, A. P. Worth, A. N. Richarz, M.T. D. Cronin. The Application of Molecular Modelling in the Safety Assessment of Chemicals: A Case Study on Ligand-Dependent PPAR γ Dysregulation, *Toxicology*, **2017**, 392, 140-154. DOI:10.1016/j.tox.2016.01.009
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66. Tsakovska I., **I. Pajeva**, M. Al Sharif, P. Alov, E. Fioravanzo, S. Kovarich, A. P. Worth, A. Richarz, C. Yang, A. Mostrag-Szlichtyng, M.T.D. Cronin. Quantitative structure–skin permeability relationships. Review Article, *Toxicology*, **2017**, 387, 27-42.
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67. Stoyanova T., I. Lessigiarska, M. Mikov, **I. Pajeva**, S. Yanev. Xanthates as useful probes for testing the active sites of Cytochromes P450 4A11 and 2E1. *Frontiers in Pharmacology*, 8, **2017**, Article 672. DOI:10.3389/fphar.2017.00672
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68. Al Sharif M., A. Diukendjieva-Todorova, P. Alov, V. Vitcheva, M. Mori, B. Botta, I. Tsakovska, **I. Pajeva**. Natural modulators of nonalcoholic fatty liver disease: mode of action analysis and in silico ADMET prediction, *Toxicology and Applied Pharmacology*, **2017**, 337, 45-66. DOI:10.1016/j.taap.2017.10.013.
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69. Al Sharif M., P. Alov, A. Diukendjieva, V. Vitcheva; R. Simeonova, I. Krasteva, A. Shkondrov, I. Tsakovska, **I. Pajeva**. Molecular determinants of PPAR γ partial agonism and related in silico / in

vivo studies of natural saponins as potential type 2 diabetes modulators, *Food and Chemical Toxicology*, **2018**, 112, 47-59. DOI:10.1016/j.fct.2017.12.009

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70. Diukendjieva, A., P. Alov, I. Tsakovska, T. Pencheva, A. Richarz, V. Kren, M.T.D. Cronin, **I. Pajeva**. *In vitro* and *in silico* studies of the membrane permeability of natural flavonoids from *Silybum marianum* (L.) Gaertn. and their derivatives, *Phytomedicine*, **2019**, 53, 79-85. DOI:10.1016/j.phymed.2018.09.001

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71. Al Sharif, M., V. Vitcheva, R. Simeonova, I. Krasteva, V. Manov, P. Alov, G. Popov, A. Shkondrov, **I. Pajeva**. *In silico* and *in vivo* studies of *Astragalus glycyphylloides* saponin(s) with potential relevance to metabolic syndrome modulation, *Food and Chemical Toxicology*, **2019**, 130, 317-325. DOI:10.1016/j.fct.2019.05.032

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72. Lagarde N., E. Goldwasser, T. Pencheva, D. Jereva, **I. Pajeva**, J. Rey, P. Tuffery, B.O. Villoutreix, M.A. Miteva. A free web-based protocol to assist structure-based virtual screening experiments. *International Journal of Molecular Sciences*, **2019**, 20 (18), 4648. DOI:10.3390/ijms20184648

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73. Dinić J., A. Podolski-Renić, M. Jovanović, L. Musso, I. Tsakovska, **I. Pajeva**, S. Dallavalle, M. Pešić. Novel Heat Shock Protein 90 inhibitors suppress P-glycoprotein activity and overcome multidrug resistance in cancer cells. *International Journal of Molecular Sciences*, **2019**, 20, 4575. DOI:10.3390/ijms20184575

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74. Dallavalle S.; V. Dobričić; L. Lazzarato; E. Gazzano; M. Machucheroe, **I. Pajeva**; I. Tsakovska, N. Zidar; R. Fruttero. Improvement of Conventional Anti-Cancer Drugs as New Tools against Resistant Tumors, *Drug Resistance Update*, **2020**, 50, 100682. DOI:10.1016/j.drug.2020.100682

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75. Diukendjieva A., M. Zaharieva, M. Mori, P. Alov, I. Tsakovska, T. Pencheva, H. Najdenski, V. Kren, C. Felici, F. Bufalieri, L. Di Marcotullio, B. Botta, M. Botta, **I. Pajeva**. Dual Smo/BRAF inhibition by flavonolignans from *Silybum marianum*. *Antioxidants*, **2020**, 9(5), 384, 13 pages. DOI:10.3390/antiox9050384

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76. Dinić J., T. Efferth, A.T. García-Sosa, J. Grahovac, J. M. Padrón, **I. Pajeva**, F. Rizzolio, S. Saponara, G. Spengler, I. Tsakovska. Repurposing old drugs to fight multidrug resistant cancers, *Drug Resistance Updates*, 52, **2020**, 100713. DOI:10.1016/j.drug.2020.100713

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77. Ilieva Y., L. Dimitrova, M.M.Zaharieva, M. Kaleva, P. Alov, I. Tsakovska, T. Pencheva, I. Pencheva-El Tibi, H. Najdenski, **I. Pajeva**. Cytotoxicity and microbicidal activity of commonly used organic solvents: a comparative study and application to a standardized extract from *Vaccinium Macrocarpon*, *Toxics*, **2021**, 9, 92. DOI:10.3390/toxics9050092

IF=3.271 (2019)

Статия на руски език:

78. Павлова, Й.Р., **И. К. Пъжева**, Г.Д. Велинов, О.Е. Будевски. Метод количественного определения содержания серной и фосфорной кислот в смеси. *Журн. прикл. хим.*, **1981**, LIV, 1946-1949.

IF=0.065 (1992)

II. Публикации в списания и тематични поредици със SCImago Journal Rank (SJR):

79. (1) Tsakovska, I., M. Pinto-Bazurco, **I. Pajeva**: Receptor tyrosine kinase inhibitors: QSAR and molecular modelling study, *Pharmatsija*, **2005**, 52 (3), 11-15.

SJR=0.101 (2005)

80. (2) Al Sharif M., A. Diukendjieva, P. Alov, A. Richards, M.T.D. Cronin, I. Tsakovska, **I. Pajeva**.

Optimized structure - based methodology for studying PPAR γ partial agonists. *Int.J. BIOautomation*, **2018**, 22 (1), 65-72. DOI:10.7546/ijba.2018.22.1

SJR=0.267 (2018)

81. (3) Diukendjieva A., I. Tsakovska, P. Alov, T. Pencheva, I. Pajeva, A. Worth, J. Madden, M.T.D. Cronin. Advances in the Prediction of Gastrointestinal Absorption: Quantitative Structure-Activity Relationship (QSAR) modelling of PAMPA Permeability. *Computational Toxicology*, **2019**, 10, 51-59. DOI:10.1016/j.comtox.2018.12.008

SJR=0.579 (2019)

82. (4) Jereva D., T. Pencheva, I. Tsakovska, P. Alov, **I. Pajeva**. Exploring Applicability of InterCriteria Analysis on the Performance of MOE and GOLD Scoring Functions. In: I. Georgiev et al. (eds.) *Advanced Computing in Industrial Mathematics, Studies in Computational Intelligence*, Springer, **2021**, vol. 961, 198-208. DOI: 10.1007/978-3-030-71616-5_18

SJR=0.185 (2020)

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SJR=0.185 (2020)

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VII. Редакции на книги (съставителство)

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