

Списък на избрани научни трудове за участие в конкурса (1986-2023)**1. Списък на подбрани научни трудове за участие в конкурса**

Забележка: Подбрани са само публикации в реферирани научни издания, в които кандидатът е първи и/или кореспондиращ автор.

Списъкът включва над 115 научни труда, от които:

- ✓ Глави от монографии – 2
- ✓ Научни статии в чужди реферирани списания с импакт-фактор и/или импакт-ранг – 98
- ✓ Научни статии в български реферирани списания – 15
- ✓ Патенти – 13

1.1. Статии, публикувани в книги и монографии (book-chapters)

2. [Bakalova R.*](#), A. Ewis, and Y. Baba, Y. – Microarray-Based Technology: Basic Principles, Advantages and Limitations, “Encyclopedia of Molecular Cell Biology and Molecular Medicine” (ed. R.A. Meyers), Wiley-VCH Verlag GmbH, Weinheim, Germany, 2005, Vol. 8, p. 263-287.
3. [Bakalova R.*](#), Z. Zhelev, H. Ohba, and Y. Baba. – Quantum dot-based nanobioprobes for fluorescent detection of molecular and cellular biological targets, “Nanotechnologies for the Life Science” (ed. Chala Kumar), Wiley-VCH Verlag GmbH, Weinheim, Germany, 2007, Vol. 8 (“Nanotechnologies for Biosensors”), p. 175-207 (статията включва оригинални резултати).

1.2. Статии, публикувани в чужди реферирани списания (Scopus & Web of Science)

4. [Бакалова Р.](#), Н. Давиташвили, Л. Столярова, Л. Смирнов, А. Ерин, В. Каган. – Стабилизиращо действие оксибензимидазола и его производных на биологические мембраны при активации перекисного окисления липидов, Бюлл. Эксп. Биол. Мед., 1987, **104**(9), 304-306. [Stabilizing effect of hydroxybenzimidazole and its derivatives on biological membranes during activation of lipid peroxidation. Biull. Eksp. Biol. Med., 1987, **104**(9), 304-306. PMID: 3663915].
5. [Бакалова Р.](#), А. Некрасов, В. Ланкин, В. Каган, Ц. Стойчев, Р. Евстигнеева. – Механизмы ингибирующего действия α-токоферола и его синтетических производных на окисление линолевой кислоты, катализируемое липоксигеназой из ретикулоцитов, Докл. Акад. Наук СССР, 1988, **299**(4), 1008-1011. [A mechanism of the inhibitory effect of alpha-tocopherol and its analogs on the oxidation of linoleic acid catalyzed by lipoxygenase from reticulocytes. Dokl. Acad. Nauk SSSR, 1988, **299**(4), 1008-1011. PMID: 3135162].

6. [Бакалова Р.*](#), Ц. Соколова, Ст. Рибаров, В. Каган. – Ефективност действия а-токоферола и его гомологов на люминолзависимую хемилюминесценцию, индуцируемую системами (Fe^{2+} + НАДФ.Н) и (Fe^{2+} + аскорбат) в микросомах печени крыс, Бюлл. Эксп. Биол. Мед., 1991, **112**(11), 482-485. [The efficiency of the action of alpha-tocopherol and its homologs on lumonol-dependent chemiluminescence induced by (Fe^{2+} + NADPH) and (Fe^{2+} + ascorbate) systems in rat liver microsomes. Biull. Eksp. Biol. Med., 1991, **112**(11), 482-485. PMID: 1810482].
7. [Bakalova R.*](#), A. Goudev, Z. Zhelev, Ch. Nachev, and St. Ribarov. – Oxidation of low density lipoproteins leads to disturbance of their binding with alpha-tocopherol, Gen. Physiol. Biophys., 1996, **15**(6), 463-475. PMID: 9248832.
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11. [Bakalova R.*](#), M. Mileva, Ch. Kotsev, V. Bardarov, and St. Ribarov. – Determination of malondialdehyde in biological samples by solid-phase extraction and high-performance liquid chromatography, Meth. Find. Exp. Clin. Pharmacol., 2000, **22**(5), 267-269. doi: 10.1358/mf.2000.22.5.796643. PMID: 11031725.
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