

Meet the Editorial Board Member

R. Bakalova

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Dr. Bakalova obtained a doctorate (PhD) degree in Biochemistry & Biophysics from the Bulgarian Academy of Sciences, as well as a doctorate in science (DSci) degree in Biological Sciences from the Sofia University “St. Kliment Ohridski”, Bulgaria. She has over 200 scientific publications and 12 patents. The main scientific interests of Dr. Bakalova are in the field of molecular imaging, molecular probe design, drug delivery systems, and nanomedicine. Recent studies focus on redox-imaging and image-guided redox-modulation in cancer, especially brain tumors, as well as on nano-theranostics in diseases accompanied by inflammation.



R. Bakalova

SELECTED PUBLICATIONS

- [1] Ivanova, D.; Zhelev, Z.; Getsov, P.; Nikolova, B.; Aoki, I.; Higashi, T.; and Bakalova, R. Vitamin K: Redox-modulation, prevention of mitochondrial dysfunction and anticancer effect. *Redox Biol.*, **2018**, *16*, 352-358.
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- [5] Bakalova, R.; Zhelev, Z.; Aoki, I.; Saga, T. Tissue redox activity as a hallmark of carcinogenesis: from early to terminal stages of cancer, *Clinical Cancer Res.*, **2013**, *19*(9), 2503-2517.
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- [7] Sumiyoshi, A.; Shibata, S.; Zhelev, Z.; Miller, T.; Lazarova, D.; Aoki, I.; Obata, T.; Higashi, T.; Bakalova, R. Targeting glioblastoma via selective alteration of mitochondrial redox state. *Cancers*, **2022**, *14*(3), 14030485.
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- [11] Bakalov, R.; Zhelev, Z.; Miller, T.; Aoki, I.; Higashi, T. New potential biomarkers for stratification of patients for pharmacological vitamin C in adjuvant settings of cancer therapy. *Redox Biol.*, **2020**, *28*, 101357.