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Dublin, IrelandElena R Milaeva, J Org Inorg Chem 2018, Volume 4
DOI: 10.21767/2472-1123-C4-011**ORGANIC AND ORGANOMETALLIC DERIVATIVES OF α -TOCOPHEROL
MIMETICS AS PROMISING ANTIOXIDANTS WITH DUAL FUNCTIONALITY****Elena R Milaeva**

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The presentation will focus on a novel approach to construction of physiologically active organic and organometallic compounds based on computer-aided design, new synthetic approaches and extensive biological screenings. This study is focused on the design of hybrid compounds possessing 2,6-dialkylphenol group with dual modes of action – prooxidative activity and antioxidative activity. The presence of metal atom allows extensive modification including coordination to the targeted specific groups to control and tune toxicity-activity profiles. The synthesis and biological activity will be discussed. The anti/prooxidant activity has been studied *in vitro*, *ex vivo*, *in vivo* experiments.

Biography

Elena R Milaeva pursued PhD at the A N Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences in 1980. She is currently a Professor of organic chemistry, head of the department of medicinal chemistry & fine organic synthesis at Lomonosov Moscow State University respectively. Her research interests include: organic chemistry, medicinal chemistry, organometallic chemistry.

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