

List of publications

1. Stancik IA, Sestak MS, Ji B, Axelson-Fisk M, Franjevic D, Domazet-Loso T, **Mijakovic I** (2017) Serine/Threonine protein kinases from bacteria, archaea and eukarya share a common evolutionary origin deeply rooted in the tree of life. *J Mol Biol*, in press.
2. Pandit S, Mokkapati VRSS, Helgadóttir S, Westerlund F, **Mijakovic I** (2017) Combination of cold atmospheric plasma and vitamin C effectively disrupts bacterial biofilms. *Clin Microbiol* 6: 3.
3. Nielsen J, Archer J, Essack M, Bajic VB, Gojobori T, **Mijakovic I** (2017) Building a biobased industry in the Middle East through harnessing the potential of the Red Sea biodiversity. *Appl Microbiol Biotechnol* 101: 4837–4851.
4. Avaz S, Roy RB, Mokkapati VRSS, Bozkurt A, Pandit S, **Mijakovic I**, Menciloglu YZ (2017) Graphene based nanosensor for aqueous phase detection of nitroaromatics. *RSC Adv* 7: 25519-25527.
5. Kalantari A, Chen T, Ji B, Stancik IA, Ravikumar V, Franjevic D, Saulou-Bérion C, Goelzer A, **Mijakovic I** (2017) Conversion of glycerol to 3-hydroxypropanoic acid by genetically engineered *Bacillus subtilis*. *Front Microbiol* 8: 638.
6. Helgadóttir S, Pandit S, Mokkapati VRSS, Westerlund F, Apell P, **Mijakovic I** (2017) Vitamin C pretreatment enhances the antibacterial effect of cold atmospheric plasma. *Front Cell Infect Microbiol* 7: 43.
7. Derouiche A, Petranovic D, Macek B, **Mijakovic I** (2017) *Bacillus subtilis* single-stranded DNA-binding protein SsbA is phosphorylated at threonine 38 by the serine/threonine kinase YabT. *Period Biol* 118: 399-404.
8. Mokkapati VRSS, Yuksel D, Imerbc K, Yilmazd N, **Mijakovic I**, Koyuncu I (2017) Membrane properties and antibacterial activity of polysulfone-graphene oxide composite membranes phase inverted in graphene oxide anti-solvent. *RSC Adv* 7: 4378-4386.
9. Motwalli O, Essack M, Jankovic BR, Ji B, Liu X, Ansari HR, Hoehndorf R, Gao X, Arold ST, Mineta K, Archer JAC, Gojobori T, **Mijakovic I**, Bajic VB (2017) In silico screening for candidate chassis strains of free fatty acid-producing cyanobacteria. *BMC Genomics* 18:33.
10. Wang N, Pandit S, Ye L, Edwards M, Mokkapati VRSS, Murugesan M, Kuzmenko V, Zhao C, Westerlund F, **Mijakovic I**, Liu J (2017) Efficient surface modification of carbon nanotubes for fabricating high performance CNT based hybrid nanostructures. *Carbon* 111: 402-410.
11. Derouiche A, Shi L, Kalantari A, **Mijakovic I** (2016) Substrate specificity of the *Bacillus subtilis* BY-kinase PtkA is controlled by alternative activators: TkmA and SalA. *Front Microbiol* 7: 1525.
12. Shi L, Ravikumar V, Derouiche A, Macek B, **Mijakovic I** (2016) Tyrosine 601 of *Bacillus subtilis* DnaK undergoes phosphorylation and is crucial for chaperone activity and heat shock survival. *Front Microbiol* 7: 533.
13. Zhao C, Pandit S, Fu Y, **Mijakovic I**, Jesorka A, Liu J (2016) Graphene oxide based coatings on nitinol for biomedical implant applications: effectively promote mammalian cell growth but kill bacteria. *RSC Adv* 6: 38124.
14. **Mijakovic I**, Grangeasse C, Turgay K (2016) Exploring the diversity of protein modifications: special bacterial phosphorylation systems. *FEMS Microbiol Rev* 40: 398-417.
15. Garcia-Garcia T, Poncet S, Derouiche A, Shi L, **Mijakovic I**, Noirot-Gros MF (2016) Role of Protein Phosphorylation in the Regulation of Cell Cycle and DNA-Related Processes in Bacteria. *Front Microbiol* 7: 184.
16. Ravikumar V, Macek B, **Mijakovic I** (2016) Resources for assignment of phosphorylation sites on peptides and proteins. *Methods Mol Biol* 1355: 293-306.

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18. Ravikumar V, Jers C, **Mijakovic I** (2015) Elucidating host-pathogen interactions based on post-translational modifications using proteomics approaches. *Front Microbiol* 6: 1312.
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35. **Mijakovic I**, Macek B (2012) Impact of phosphoproteomics on studies of bacterial physiology. *FEMS Microbiol Rev* 36: 877-892.
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