

List of publications

1. Macek B, Forchhammer K, Hardouin J, Weber-Ban E, Grangeasse C, **Mijakovic I** (2019) Protein post-translational modifications in bacteria. *Nat Microbiol Rev*, in press.
2. Jers C, Kalantari A, Garg A, **Mijakovic I** (2019) Production of 3-hydroxypropanoic acid from glycerol by metabolically engineered bacteria (2019) *Front Bioeng Biotechnol* 7:124.
3. Rahimi S, Kim YJ, Kim J, **Mijakovic I**, Jung K (2019) Triterpenoid-biosynthetic UDP-glycosyltransferases from plants. *Biotechnol Adv*, in press.
4. Gaska K, Kádár R, Xu X, Gubanski S, Müller C, Pandit S, Mokkapati VRSS, **Mijakovic I**, Rybak A, Siwek A, Svensson M (2019) Highly structured graphene polyethylene nanocomposites. *AIP Conf Proc* 2065: 030061.
5. Shi L, Cavagnino A, Rabefiraisana JL, Lazar N, de la Sierra-Gallay IL, Ochsenbein F, Valerio-Lepiniec M, Urvoas A, Minard P, **Mijakovic I**, Nessler S (2019) Structural analysis of the Hanks-type protein kinase YabT from *Bacillus subtilis* provides new insights in its DNA-dependent Activation. *Front Microbiol* 9: 3014.
6. Singh P, Garg A, Pandit S, Mokkapati VRSS, **Mijakovic I** (2018) Antimicrobial effects of biogenic nanoparticles. *Nanomaterials* 8: 1009.
7. Ravikumar V, Nalpas N, Anselm V, Krug K, Lenuzzi M, Šestak MS, Domazet-Lošo T, **Mijakovic I**, Macek B (2018) In-depth analysis of *Bacillus subtilis* proteome identifies new ORFs and traces the evolutionary history of modified proteins. *Sci Rep* 8: 17246.
8. Mokkapati VRSS, Pandit S, Kim J, Lovmar M, Westerlund F, **Mijakovic I** (2018) Antibacterial activity of graphene oxide and reduced graphene oxide integrated in agar plates. *Royal Soc Open Sci* 5: 181083.
9. Singh P, Pandit S, Beshay M, Mokkapati VRRS, Garnæs J, Olsson M, Sultan A, Mackevica A, Mateiu RV, Lütken HV, Daugaard A, Baun A, **Mijakovic I** (2018) Anti-biofilm effects of gold and silver nanoparticles synthesized by the *Rhodiola rosea* rhizome extracts. *Artif Cells Nanomed Biotechnol* 13: 1-14.
10. Motwalli O, Essack M, Salhi A, Hanks J, **Mijakovic I**, Bajic VB (2018) BioPS: System for screening and assessment of biofuel-production potential of cyanobacteria. *PLoS One* 13: e0202002.
11. Merlo A, Mokkapati VRSS, Pandit S, **Mijakovic I** (2018) Boron nitride nanomaterials: biocompatibility and bio-applications. *Biomater Sci* 6: 2298-2311.
12. Singh P, Pandit S, Mokkapati VRSS, Garg A, Ravikumar V, **Mijakovic I** (2018) Gold nanoparticles in diagnostics and therapeutics for human cancer. *Int J Mol Sci* 19: 1979.
13. Cantatore V, Pandit S, Mokkapati VRSS, Schindler S, Eigler S, **Mijakovic I**, Panas I (2018) Modeling of a novel graphene based selective bio-sensor for glucose. *Carbon* 137: 343-348.
14. Singh P, Pandit S, Garnaes J, Tunjic S, Mokkapati VRSS, Thygesen A, Mateiu RV, Baun A, Daugaard AE, Sultan A, **Mijakovic I** (2018) Green synthesis of gold and silver nanoparticles from industrial hemp and their capacity for biofilm inhibition. *Int J Nanomed* 13: 3571-3591.
15. Othoum GK, Bougouffa S, Razali RM, Bokhari A, Alamoudi S, Antunes A, Gao X, Hoehndorf R, Arold ST, Gojobori T, Hirt H, **Mijakovic I**, Bajic VB, Lafi FF, Essack M (2018) In silico exploration of Red Sea *Bacillus* genomes for natural product biosynthetic gene clusters. *BMC Genomics* 19: 382.
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17. Pandit S, Cao Z, Mokkapati VRSS, Celauro E, Yurgens A, Lovmar M, Westerlund F, Sun J, **Mijakovic I** (2018) Vertically aligned graphene coating is bactericidal and prevents the formation of bacterial biofilms. *Adv Mater Interfaces* 5: 1701331.
18. Jers C, Ravikumar V, Lezyk M, Sultan A, Sjöling A, Wai SN, **Mijakovic I** (2018) The global acetylome of the human pathogen *Vibrio cholerae* V52 reveals lysine acetylation of major transcriptional regulators. *Front Cell Infect Microbiol* 7: 537.
19. Stancik IA, Sestak MS, Ji B, Axelson-Fisk M, Franjevic D, Jers C, Domazet-Loso T, **Mijakovic I** (2018) Serine/Threonine protein kinases from bacteria, archaea and eukarya share a common evolutionary origin deeply rooted in the tree of life. *J Mol Biol* 2836: 30542-30549.
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26. 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.
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34. 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.
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42. Shi L, Pignonneau N, Ventroux M, Derouiche A, Bidnenko V, **Mijakovic I**, Noirot-Gros MF (2014) Protein-tyrosine phosphorylation interaction network in *Bacillus subtilis* reveals new substrates, kinase activators and kinase cross-talk. *Front Microbiol* 5: 538.
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