

## List of publications

1. 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, in press.
2. Merlo A, Mokkapati VRSS, Pandit S, **Mijakovic I** (2018) Boron nitride nanomaterials: biocompatibility and bio-applications. Biomater Sci, in press.
3. 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.
4. Cantatore V, Pandit S, Mokkappati 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.
5. 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.
6. 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.
7. García TG, Ventrone M, Derouiche A, Bidnenko V, Correia Santos SF, Henri C, **Mijakovic I**, Noirot-Gros MF, Poncet S (2018) Phosphorylation of the *Bacillus subtilis* replication controller YabA plays a role in regulation of sporulation and biofilm formation. Front Microbiol 9: 486.
8. 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.
9. 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.
10. Stancik IA, Sestak MS, Ji B, Axelsson-Fisk M, Franjevic D, Jers C, Domazet-Lošo 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.
11. Pandit S, Ravikumar V, Abdel Haleem AM, Derouiche A, Mokkapati VRSS, Sihlbom C, Mineta K, Gojobori T, Gao X, Westerlund F, **Mijakovic I** (2017) Low concentrations of vitamin C reduce the synthesis of extracellular polymers and destabilize bacterial biofilms. Front Microbiol 8: 2599.
12. 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.
13. 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.
14. 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.
15. 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.
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18. Mokkapatil VRSS, Yuksel D, Imerbc K, Yilmazd N, **Mijakovic I**, Koyuncu I (2017) Membrane properties and antibacterial activity of polysulfone-graphene oxide composite membranes phase inversed in graphene oxide anti-solvent. *RSC Adv* 7: 4378-4386.
19. 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.
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36. Sohoni SV, Fazio A, Workman CT, **Mijakovic I**, Eliasson Lantz A (2014) Synthetic promoter library for modulation of actinorhodin production in *Streptomyces coelicolor* A3(2). *PLoS One* 9: e99701.
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