

List of publications

1. Cantatore V, Pandit S, VRSS Mokkappati, Schindler S, Eigler S, **Mijakovic I**, Panas I (2018) Modeling of a novel graphene based selective bio-sensor for glucose. Carbon, in press.
2. 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, in press.
3. Singh P, Pandit S, Garnaes J, Tunjic S, Mokkappati 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 in press.
4. García TG, Ventrux 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.
5. Pandit S, Cao Z, Mokkappati 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.
6. 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.
7. Stancik IA, Sestak MS, Ji B, Axelson-Fisk M, Franjevic D, 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.
8. Pandit S, Ravikumar V, Abdel Haleem AM, Derouiche A, Mokkappati 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.
9. Pandit S, Mokkappati VRSS, Helgadóttir S, Westerlund F, **Mijakovic I** (2017) Combination of cold atmospheric plasma and vitamin C effectively disrupts bacterial biofilms. Clin Microbiol 6: 3.
10. 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.
11. Avaz S, Roy RB, Mokkappati VRSS, Bozkurt A, Pandit S, **Mijakovic I**, Menciloglu YZ (2017) Graphene based nanosensor for aqueous phase detection of nitroaromatics. RSC Adv 7: 25519-25527.
12. 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.
13. Helgadóttir S, Pandit S, Mokkappati 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.
14. 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.
15. Mokkappati 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.

16. 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.
17. 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.
18. 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.
19. 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.
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25. 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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28. Grangeasse C, Stülke J, **Mijakovic I** (2015) Regulatory potential of post-translational modifications in bacteria. *Front Microbiol* 6: 500.
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30. 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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35. Shi L, Ji B, Kolar-Znika L, Boskovic A, Jadeau F, Combet C, Grangeasse C, Franjevic D, Talla E, **Mijakovic I** (2014) Evolution of bacterial protein-tyrosine kinases and their relaxed specificity towards substrates. *Genome Biol Evol* 6: 800-817.
36. Ravikumar V, Shi L, Krug K, Derouiche A, Jers C, Cousin C, Kobir A, **Mijakovic I**, Macek B (2014) Quantitative phosphoproteome analysis of *Bacillus subtilis* reveals novel substrates of the kinase PrkC and phosphatase PrpC. *Mol Cell Proteom* 13: 1965-1978.
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