

## List of publications

1. Abdel-Haleem AM, Ravikumar V, Ji B, Mineta K, Gao X, Nielsen J, Gojobori T, **Mijakovic I** (2020) Integrated metabolic modeling, culturing and transcriptomics explains enhanced virulence of *V. cholerae* during co-infection with ETEC. *mSystems* in press.
2. Futo M, Opasic L, Koska S, Corak N, Siroki T, Ravikumar V, Thorsell A, Kifer D, Domazet-Loso M, Vlahovick K, **Mijakovic I**, Domazet-Loso T (2020) Embryo-like features in developing *Bacillus subtilis* biofilms. *Mol Biol Evol* in press.
3. **Mijakovic I** (2020) Evolutionary age of genes can assist in genome mining. *Period Biol* in press.
4. Neissi A, Rafiee G, Farahmand H, Rahimi S, **Mijakovic I** (2020) Cold-resistant heterotrophic ammonium and nitrite removing bacteria improve aquaculture conditions of rainbow trout (*Oncorhynchus mykiss*). *Microb Ecol*, 80: 266–277.
5. Bonne K hler J, Jers C, Senissar M, Shi, Derouiche A, **Mijakovic I** (2020) Importance of protein Ser/Thr/Tyr phosphorylation for bacterial pathogenesis. *FEBS Lett* 594: 2339-2369.
6. Rahimi S, Modin O, **Mijakovic I** (2020) Technologies for biological removal and recovery of nitrogen from wastewater. *Biotechnol Adv* 43: 107570.
7. Singh P, Pandit S, Mokkapati VRSS, Garn es J, Jers C, **Mijakovic I** (2020) Extracellular synthesis of silver nanoparticles from *Solibacillus isronensis* sp. and their application in biofilm inhibition. *Molecules* 25: 2783.
8. Rahimi S, Modin O, Roshanzamir F, Neissi A, Saheb Alam S, Seelbinder B, Pandit S, Shi L, **Mijakovic I** (2020) Co-culturing *Bacillus subtilis* and wastewater microbial community in a bio-electrochemical system enhances denitrification and butyrate formation. *Chem Eng J* 397: 125437.
9. Aminian-Dehkordi J, Mousavi SM, Marashi SA, Jafari A, **Mijakovic I** (2020) A systems-based approach for cyanide overproduction by *Bacillus megaterium* for gold bioleaching enhancement. *Front Bioeng Biotechnol*, 8: 528.
10. Shi L, Derouiche A, Pandit S, Rahimi S, Kalantari A, Mokkapati VRSS, Futo A, Ravikumar V, Jers C, Vlahovick K, **Mijakovic I** (2020) Evolutionary analysis of the *Bacillus subtilis* genome reveals new genes involved in sporulation. *Mol Biol Evol* 37: 1667-1678.
11. Huang C, Gonzales-Lopez C, Henry C, **Mijakovic I**, Ryan K (2020) HipBA toxin-antitoxin systems and persistence in *Caulobacter crescentus*. *Sci Rep* 10: 2865.
12. Pandit S, Gaska K, Mokkapati VRSS, Svensson M, Forsberg S, K d r R, **Mijakovic I** (2020) Pre-controlled alignment of graphite nanoplatelets in polymeric composites prevents bacterial attachment. *Small* 16: e1904756.
13. Othoum G, Prigent S, Derouiche A, Shi L, Bokhari A, Alamoudi S, Bougouffa S, Gao X, Hoehndorf R, Arold S, Gojobori T, Hirt H, Lafi F, Nielsen J, Bajic V, **Mijakovic I**, Essack M (2019) Comparative genomics study reveals Red Sea *Bacillus* with characteristics associated with potential microbial cell factories (MCFs). *Sci Rep* 9: 19254.
14. Aminian-Dehkordi J, Mousavi SM, Jafari A, **Mijakovic I**, Marashi SA (2019) A manually curated genome-scale reconstruction of the metabolic network in *Bacillus megaterium* DSM319. *Sci Rep* 9: 18762.
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16. Macek B, Forchhammer K, Hardouin J, Weber-Ban E, Grangeasse C, **Mijakovic I** (2019) Protein post-translational modifications in bacteria. *Nat Microbiol Rev* 17: 651-664.

17. Rahimi S, Kim YJ, Kim J, **Mijakovic I**, Jung K (2019) Triterpenoid-biosynthetic UDP-glycosyltransferases from plants. *Biotechnol Adv* 7: 124.
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19. Xu L, WenY, Pandit S, Mokkapati VRSS, **Mijakovic I**, Li Y, Ding M, Ren S, Li W, Liu G (2019) Graphene-based biosensors for the detection of prostate cancer protein biomarkers: a review. *BMC Chemistry* 13: 112.
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21. 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.
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35. 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.
36. 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* 430: 27-32.
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41. 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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