

DAFTAR PUSTAKA

- Abbas, S., and Mahmoud, H. 2022. Identification of Sponge-Associated Bacteria From the Coast of Kuwait and Their Potential Biotechnological Applications. *Frontiers in Microbiology*, **13**.
- Adnani, N., Chevrette, M. G., Adibhatla, S. N., Zhang, F., Yu, Q., Braun, D. R., Nelson, J., Simpkins, S. W., McDonald, B. R., Myers, C. L., Piotrowski, J. S., Thompson, C. J., Currie, C. R., Li, L., Rajski, S. R., and Bugni, T. S. 2017. Coculture of Marine Invertebrate-Associated Bacteria and Interdisciplinary Technologies Enable Biosynthesis and Discovery of a New Antibiotic, Keyicin. *ACS Chemical Biology*, **12** (12): 3093–3102.
- Ali, N., Pang, Z., Wang, F., Xu, B., and El-Seedi, H. R. 2022. Lipopeptide Biosurfactants from *Bacillus* spp.: Types, Production, Biological Activities, and Applications in Food. In *Journal of Food Quality*, **20** (22).
- Alqahtani, F. Y., Aleanizy, F. S., El Tahir, E., Alowais, H., Binkelaib, A., Alwathlan, B., Al-Bdrawy, A., Håkansson, A. P., and Alsarra, I. 2021. Capsule independent antimicrobial activity induced by nanochitosan against *Streptococcus pneumoniae*. *Polymers*, **13** (17).
- Anteneh, Y. S., Yang, Q., Brown, M. H., and Franco, C. M. M. 2021. Antimicrobial activities of marine sponge-associated bacteria. *Microorganisms*, **9** (1): 1–19.
- Aryal, B., Adhikari, B., Aryal, N., Bhattarai, B. R., Khadayat, K., and Parajuli, N. 2021. LC-HRMS Profiling and Antidiabetic, Antioxidant, and Antibacterial Activities of *Acacia catechu* (L.f.) Willd. *BioMed Research International*.
- Atallah, B. M., El-Mohsnawy, E., El-Shouny, W. A., and Haroun, S. A. 2023. Identification and characterization of different potentially antibacterial compounds from a marine *Streptomyces* sp. SP1. *Journal of Animal and Plant Sciences*, **33** (1): 166–173.
- Bauer, M., Kube, M., Teeling, H., Richter, M., Lombardot, T., Allers, E., Würdemann, C. A., Quast, C., Kuhl, H., Knaust, F., Wobken, D., Bischof, K., Mussmann, M., Choudhuri, J. V., Meyer, F., Reinhardt, R., Amann, R. I., and Glöckner, F. O. 2006. Whole genome analysis of the marine Bacteroidetes *Gramella forsetii* reveals adaptations to degradation of polymeric organic matter. *Environmental Microbiology*, **8** (12): 2201–2213.
- Bibi, F., Yasir, M., Al-Sofyani, A., Naseer, M. I., and Azhar, E. I. 2020. Antimicrobial activity of bacteria from marine sponge *Suberea mollis* and bioactive

- metabolites of *Vibrio* sp. EA348. *Saudi Journal of Biological Sciences*, **27** (4): 1139–1147.
- Breig, S. J. M., and Luti, K. J. K. 2021. Response surface methodology: A review on its applications and challenges in microbial cultures. *Materials Today: Proceedings*, **42**: 2277–2284.
- Brinkmann, S., Spohn, M. S., and Schäberle, T. F. 2022. Bioactive natural products from Bacteroidetes. *In Natural Product Reports*.
- Calcabrini, C., Catanzaro, E., Bishayee, A., Turrini, E., and Fimognari, C. 2017. Marine sponge natural products with anticancer potential: An updated review. *In Marine Drugs*, **15** (10).
- Caruso, C., Rizzo, C., Mangano, S., Poli, A., di Donato, P., Finore, I., Nicolaus, B., di Marco, G., Michaud, L., & Lo Giudice, A. 2018. Production and biotechnological potential of extracellular polymeric substances from sponge-associated Antarctic bacteria. *Applied and Environmental Microbiology*, **84** (4).
- Caudal, F., Tapissier-Bontemps, N., and Edrada-Ebel, R. A. 2022. Impact of Co-culture on the Metabolism of Marine Microorganisms. *In Marine Drugs*, **20** (2).
- Centers for Disease Control and Prevention. 2019. *Antibiotic Resistance Threats in the United States*. US Department of Health and Human Services, CDC: Atlanta, GA, USA.
- Cheng, B., Li, C., Lai, Q., Du, M., Shao, Z., Xu, P., and Yang, C. 2014. *Sinomicrobium pectinilyticum* sp. nov., A pectinase-producing bacterium isolated from alkaline and saline soil, And emended description of the genus *Sinomicrobium*. *International Journal of Systematic and Evolutionary Microbiology*, **64**: 2939–2943.
- Dong, Y., Song, G. L., Xu, Y., and Zheng, D. 2023. Bio-inhibitive effect of an algal symbiotic bacterium on corrosion of magnesium in marine environment. *Journal of Magnesium and Alloys*.
- Donroe, J. H., Holt, S. R., O'Connor, P. G., Sukumar, N., and Tetrault, J. M. 2017. Interpreting quantitative urine buprenorphine and norbuprenorphine levels in office-based clinical practice. *Drug and Alcohol Dependence*, **180**: 46–51.
- Esposito, F. P., Giugliano, R., Sala, G. Della, Vitale, G. A., Buonocore, C., Ausuri, J., Galasso, C., Coppola, D., Franci, G., Galdiero, M., and de Pascale, D. 2021.

Combining osmac approach and untargeted metabolomics for the identification of new glycolipids with potent antiviral activity produced by a marine *Rhodococcus*. *International Journal of Molecular Sciences*, **22** (16).

- Fan, B., Parrot, D., Blümel, M., Labes, A., and Tasdemir, D. 2019. Influence of OSMAC-based cultivation in metabolome and anticancer activity of fungi associated with the brown alga *Fucus vesiculosus*. *Marine Drugs*, **17** (1).
- Galitz, A., Nakao, Y., Schupp, P. J., Wörheide, G., and Erpenbeck, D. 2021. A soft spot for chemistry—current taxonomic and evolutionary implications of sponge secondary metabolite distribution. *Marine Drugs*, **19** (8).
- Gavriilidou, A., Gutleben, J., Versluis, D., Forgiarini, F., Van Passel, M. W. J., Ingham, C. J., Smidt, H., and Sipkema, D. 2020. Comparative genomic analysis of Flavobacteriaceae: Insights into carbohydrate metabolism, gliding motility and secondary metabolite biosynthesis. *BMC Genomics*, **21** (1).
- Giri, S. S., Ryu, E. C., Sukumaran, V., and Park, S. C. 2019. Antioxidant, antibacterial, and anti-adhesive activities of biosurfactants isolated from Bacillus strains. *Microbial Pathogenesis*, **132**: 66–72.
- Gomes, N. G. M., Dasari, R., Chandra, S., Kiss, R., and Kornienko, A. 2016. Marine invertebrate metabolites with anticancer activities: Solutions to the “supply problem.” *In Marine Drugs*, **14** (5).
- Jamal, M. T., and Satheesh, S. 2022. Antibiofilm activity of secondary metabolites of sponge-associated bacterium *Alcanivorax* sp. from the Red Sea. *Frontiers in Marine Science*, **9**.
- Jemil, N., Ben Ayed, H., Manresa, A., Nasri, M., and Hmidet, N. 2017. Antioxidant properties, antimicrobial and anti-adhesive activities of DCS1 lipopeptides from *Bacillus methylotrophicus* DCS1. *BMC Microbiology*, **17** (1).
- Jung, Y. T., Park, S., Lee, J. S., and Yoon, J. H. 2016. *Roseivirga maritima* sp. nov., isolated from seawater. *International Journal of Systematic and Evolutionary Microbiology*, **66** (7): 2664–2670.
- Kokkini, M., González Heredia, C., Oves-Costales, D., de la Cruz, M., Sánchez, P., Martín, J., Vicente, F., Genilloud, O., and Reyes, F. 2022. Exploring *Micromonospora* as Phocoenamycin Producers. *Marine Drugs*, **20** (12).
- Kumla, D., Aung, T. S., Buttachon, S., Dethoup, T., Gales, L., Pereira, J. A., Inácio, Â., Costa, P. M., Lee, M., Sekeroglu, N., Silva, A. M. S., Pinto, M. M. M., and Kijjoa, A. 2017. A new dihydrochromone dimer and other secondary

- metabolites from cultures of the marine sponge-associated fungi *Neosartorya fennelliae* KUFA 0811 and *Neosartorya tsunodae* KUFC 9213. *Marine Drugs*, **15** (12).
- Li, M., Wang, K., Jia, C., Liu, T., Yang, S., Ou, H., and Zhao, J. 2021. Bacteroidetes bacteria, important players in the marine sponge larval development process. *IScience*, **24** (6).
- Li, W., Ding, L., Wang, N., Xu, J., Zhang, W., Zhang, B., He, S., Wu, B., and Jin, H. 2019. Isolation and characterization of two new metabolites from the sponge-derived fungus *Aspergillus* sp. LS34 by OSMAC approach. *Marine Drugs*, **17** (5).
- Li, X., Xu, H., Li, Y., Liao, S., and Liu, Y. 2023. Exploring Diverse Bioactive Secondary Metabolites from Marine Microorganisms Using Co-Culture Strategy. In *Molecules*, **28** (17).
- Li, Y., Li, Q., Hao, D., Jiang, D., Luo, Y., Liu, Y., and Zhao, Z. 2015. Production, purification, and antibiofilm activity of a novel exopolysaccharide from *Arthrobacter* sp. B4. *Preparative Biochemistry and Biotechnology*, **45** (2): 192–204.
- Lipphardt, A., Karmainski, T., Blank, L. M., Hayen, H., and Tiso, T. 2023. Identification and quantification of biosurfactants produced by the marine bacterium *Alcanivorax borkumensis* by hyphenated techniques. *Analytical and Bioanalytical Chemistry*, **415** (30): 7067–7084.
- Matysiak, S., Zabielska, J., Kula, J., and Kunicka-Styczyńska, A. 2018. Synthesis of (R)- and (S)-Ricinoleic Acid Amides and Evaluation of Their Antimicrobial Activity. *JAOCS, Journal of the American Oil Chemists' Society*, **95** (1): 69–77.
- Mehbub, M. F., Lei, J., Franco, C., and Zhang, W. 2014. Marine sponge derived natural products between 2001 and 2010: Trends and opportunities for discovery of bioactives. In *Marine Drugs* **12** (8): 4539–4577. MDPI.
- Memha, R., Kuete, V., Pagès, J. M., Pegnyemb, D. E., and Mosset, P. 2020. Synthesis and biological evaluation of four new ricinoleic acid-derived 1-o-alkylglycerols. *Marine Drugs*, **18** (2).
- Moghaddam, J., Crüsemann, M., Alanjary, M., Harms, H., Dávila-Céspedes, A., Blom, J., Poehlein, A., Ziemert, N., König, G. M., and Schäberle, T. F. 2018. Analysis of the Genome and Metabolome of Marine *Myxobacteria* Reveals High Potential for Biosynthesis of Novel Specialized Metabolites. *Scientific Reports*, **8** (1).

- Mohimani, H., Gurevich, A., Mikheenko, A., Garg, N., Nothias, L. F., Ninomiya, A., Takada, K., Dorrestein, P. C., and Pevzner, P. A. 2017. Dereplication of peptidic natural products through database search of mass spectra. *Nature Chemical Biology*, **13** (1): 30–37.
- Muñoz-Muñoz, A. C., Pekol, T., Awad, A., Hackett, P., Sullivan, L., Rodrigues, A., Brelsford, E., Engert, R., Savery, D., and Andrade, L. 2022. Norbuprenorphine Interferences in Urine Drug Testing LC-MS-MS Confirmation Methods from Quetiapine Metabolites. *Journal of Analytical Toxicology*, **46** (7), 757–764.
- Mutlu, H., and Meier, M. A. R. 2010. Castor oil as a renewable resource for the chemical industry. In *European Journal of Lipid Science and Technology*, **112** (1): 10–30.
- Navarro Llorens, J. M., Tormo, A., and Martínez-García, E. 2010. Stationary phase in gram-negative bacteria. In *FEMS Microbiology Reviews*, **34** (4): 476–495.
- Nedashkovskaya, O. I., Kim, S. B., Lee, D. H., Lysenko, A. M., Shevchenko, L. S., Frolova, G. M., Mikhailov, V. V., Lee, K. H., and Bae, K. S. 2005. *Roseivirga ehrenbergii* gen. nov., sp. nov., a novel marine bacterium of the phylum “Bacteroidetes”, isolated from the green alga *Ulva fenestrata*. *International Journal of Systematic and Evolutionary Microbiology*, **55** (1): 231–234.
- Özkaya, F. C., Ebrahim, W., El-Neketi, M., Tansel Tanrikul, T., Kalscheuer, R., Müller, W. E. G., Guo, Z., Zou, K., Liu, Z., and Proksch, P. 2018. Induction of new metabolites from sponge-associated fungus *Aspergillus carneus* by OSMAC approach. *Fitoterapia*, **131**: 9–14.
- Pan, R., Bai, X., Chen, J., Zhang, H., and Wang, H. 2019. Exploring structural diversity of microbe secondary metabolites using OSMAC strategy: A literature review. In *Frontiers in Microbiology*, **10**.
- Pringgenies, D., Wilis, A. S., Feliatra, F., and Ariyanto, D. 2023. The antibacterial and antifungal potential of marine natural ingredients from the symbiont bacteria of mangrove. *Global Journal of Environmental Science and Management*, **9** (4): 819–832.
- Riyanti, Balansa, W., Liu, Y., Sharma, A., Mihajlovic, S., Hartwig, C., Leis, B., Rieuwpassa, F. J., Ijong, F. G., Wägele, H., König, G. M., and Schäberle, T. F. 2020. Selection of sponge-associated bacteria with high potential for the production of antibacterial compounds. *Scientific Reports*, **10** (1).

- Riyanti, Zumkeller, C. M., Spohn, M., Mihajlovic, S., Schwengers, O., Goesmann, A., Choironi, N. A., Schäberle, T. F., and Harwoko, H. 2023. Draft Genome Sequences of *Algoriphagus* sp. Strain PAP.12 and *Roseivirga* sp. Strain PAP.19 Isolated from Marine Samples from Papua, Indonesia. *Microbiology Resource Announcements*, **12** (4).
- Rizzo, C., Gugliandolo, C., and Giudice, A. Lo. 2020. Exploring mediterranean and arctic environments as a novel source of bacteria producing antibacterial compounds to be applied in aquaculture. *Applied Sciences (Switzerland)*, **10** (11).
- Romano, S., Jackson, S. A., Patry, S., and Dobson, A. D. W. 2018. Extending the “one strain many compounds” (OSMAC) principle to marine microorganisms. *In Marine Drugs*, **16** (7).
- Santos, P. M., Batista, D. L. J., Ribeiro, L. A. F., Boffo, E. F., de Cerqueira, M. D., Martins, D., de Castro, R. D., de Souza-Neta, L. C., Pinto, E., Zambotti-Villela, L., Colepicolo, P., Fernandez, L. G., Canuto, G. A. B., and Ribeiro, P. R. 2018. Identification of antioxidant and antimicrobial compounds from the oilseed crop *Ricinus communis* using a multiplatform metabolite profiling approach. *Industrial Crops and Products*, **124**: 834–844.
- Schwarz, J., Hubmann, G., Rosenthal, K., and Lütz, S. 2021. Triaging of culture conditions for enhanced secondary metabolite diversity from different bacteria. *Biomolecules*, **11** (2): 1–22.
- Sekaran, U., and Bougie, R. 2010. *Research Methods for Business*. Wiley: Chichester, West Sussex, United Kingdom.
- Spyere, A., Rowley, D. C., Jensen, P. R., and Fenical, W. 2003. New neoverrucosane diterpenoids produced by the marine gliding bacterium *Saprospira grandis*. *Journal of Natural Products*, **66** (6): 818–822.
- Srinivasan, R., Kannappan, A., Shi, C., and Lin, X. 2021. Marine bacterial secondary metabolites: A treasure house for structurally unique and effective antimicrobial compounds. *In Marine Drugs*, **19** (10).
- Thawabteh, A. M., Swaileh, Z., Ammar, M., Jaghama, W., Yousef, M., Karaman, R., A. Bufo, S., and Scrano, L. 2023. Antifungal and Antibacterial Activities of Isolated Marine Compounds. *Toxins*, **15** (2).
- Totaro, G., Cruciani, L., Vannini, M., Mazzola, G., Di Gioia, D., Celli, A., and Sisti, L. 2014. Synthesis of castor oil-derived polyesters with antimicrobial activity. *European Polymer Journal*, **56** (1): 174–184.

- Vitale, G. A., Sciarretta, M., Cassiano, C., Buonocore, C., Festa, C., Mazzella, V., Pons, L. N., D'auria, M. V., and de Pascale, D. 2020. Molecular network and culture media variation reveal a complex metabolic profile in *Pantoea* cf. *Eucrina* d2 associated with an acidified marine sponge. *International Journal of Molecular Sciences*, **21** (17): 1–18.
- Wu, Q., Ni, M., Dou, K., Tang, J., Ren, J., Yu, C., and Chen, J. 2018. Co-culture of *Bacillus amyloliquefaciens* ACCC11060 and *Trichoderma asperellum* GDFS1009 enhanced pathogen-inhibition and amino acid yield. *Microbial Cell Factories*, **17** (1).
- Xu, B. H., Ye, Z. W., Zheng, Q. W., Wei, T., Lin, J. F., and Guo, L. Q. 2018. Isolation and characterization of cyclic lipopeptides with broad-spectrum antimicrobial activity from *Bacillus siamensis* JFL15. *Biotech*, **8** (10).
- Xu, Y., Tian, X. P., Liu, Y. J., Li, J., Kim, C. J., Yin, H., Li, W. J., and Zhang, S. 2013. *Sinomicrobium oceani* gen. nov., sp. nov., a member of the family Flavobacteriaceae isolated from marine sediment. *International Journal of Systematic and Evolutionary Microbiology*, **63** (3): 1045–1050.
- Zhang, S., Song, W., Nothias, L. F., Couvillion, S. P., Webster, N., and Thomas, T. 2022. Comparative metabolomic analysis reveals shared and unique chemical interactions in sponge holobionts. *Microbiome*, **10** (1).

