

ACS Citations for Abstract

1. Gould K. Antibiotics: From prehistory to the present day. *Journal of Antimicrobial Chemotherapy*. 2016;71(3):572–575. doi:10.1093/jac/dkv484
2. Santajit S, Indrawattana N. Mechanisms of antimicrobial resistance in Eskape pathogens. *BioMed Research International*. 2016;2016:1–8. doi:10.1155/2016/2475067
3. Mulani MS, Kamble EE, Kumkar SN, Tawre MS, Pardesi KR. Emerging strategies to combat ESKAPE pathogens in the era of antimicrobial resistance: A Review. *Frontiers in Microbiology*. 2019;10. doi:10.3389/fmicb.2019.00539
4. Hernandez, S., T. Tsang, C. Bascom–Slack, N. Broderick and J. Handelsman. 2018. *Tiny Earth: A research guide to student sourcing antibiotic discovery*. XanEdu Publishers, Ann Arbor, MI.

ACS Citations for Video

1. Hernandez, S., T. Tsang, C. Bascom–Slack, N. Broderick and J. Handelsman. 2018. *Tiny Earth: A research guide to student sourcing antibiotic discovery*. XanEdu Publishers, Ann Arbor, MI.
2. Bergey, D. H. 1., & Holt, J. G. (2000). *Bergey’s manual of determinative bacteriology*. 9th ed. Philadelphia: Lippincott Williams & Wilkins.
3. Delgado–Baquerizo M, Oliverio AM, Brewer TE, Benavent–González A, Eldridge DJ, Bardgett RD, Maestre FT, Singh BK, Fierer N. A global atlas of the dominant bacteria found in soil. *Science*. 2018;359(6373):320–325. doi:10.1126/science.aap9516
4. Handelsman J, Cohen K. Earth Works. In: *A world without soil: The past, present, and precarious future of the Earth Beneath Our feet*. New Haven, CT: Yale University Press; 2022. p. 24–41.
5. Santajit S, Indrawattana N. Mechanisms of antimicrobial resistance in Eskape pathogens. *BioMed Research International*. 2016;2016:1–8. doi:10.1155/2016/2475067
6. Sikora A, Zahra F. Nosocomial Infections. [Updated 2021 Aug 10]. In: *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan–. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK559312/>
7. Mulani MS, Kamble EE, Kumkar SN, Tawre MS, Pardesi KR. Emerging strategies to combat ESKAPE pathogens in the era of antimicrobial resistance: A Review. *Frontiers in Microbiology*. 2019;10. doi:10.3389/fmicb.2019.00539
8. Green E. D. Plasmid. *Genome.gov*. [accessed 2022 Jan 26]. <https://www.genome.gov/genetics-glossary/Plasmid>
9. Plasmids | pathways over time. BI 204. [accessed 2022 Jan 26]. <https://capricorn.bc.edu/wp/pathways/plasmid-identification/plasmids/>
10. Boeck LD, Berry DM, Mertz FP, Wetzel RW. A10255, a complex of novel growth-promoting thiopeptide antibiotics produced by a strain of *Streptomyces*

- gardneri. Taxonomy and fermentation studies. *J Antibiot (Tokyo)*. 1992 Aug;45(8):1222-30. doi: 10.7164/antibiotics.45.1222. PMID: 1399842.
11. Measuring and assessing soils. *Agriculture and Food*. [accessed 2022 Jan 26]. <https://www.agric.wa.gov.au/climate-land-water/soils/measuring-and-assessing-soils>
 12. MiniOne. MiniOne Electrophoresis Instruction Manual. 2018.
 13. IBI Scientific Instruction Manual Gel/PCR DNA Fragments Extraction Kit. 2021.
 14. Knudtson K. Genome Sequencing Results. 2022.
 15. Altschul, S.F., Gish, W., Miller, W., Myers, E.W. & Lipman, D.J. (1990) "Basic local alignment search tool." *J. Mol. Biol.* 215:403-410.
 16. Aryal S. Online microbiology notes. *Microbiology Info.com*. 2021 Sep 22 [accessed 2022 Jan 26]. <https://microbiologyinfo.com/>
 17. Fleck WF, Strauss DG, Prauser H. Naphthochinon-Antibiotica aus *Streptomyces lateritius* I. Fermentation, Isolierung und Charakterisierung der Granatomycine A, C und D [Naphthoquinone antibiotics from *Streptomyces lateritius*. I Fermentation, isolation and characterization of granatomycins A, C, and D]. *Z Allg Mikrobiol.* 1980;20(9):543-51. German. doi: 10.1002/jobm.3630200902. PMID: 7210705.
 18. Rhee SG, Cho C-S. Blot-based detection of dehydroalanine-containing glutathione peroxidase with the use of biotin-conjugated cysteamine. *Methods in Enzymology*. 2010;23-34. doi:10.1016/S0076-6879(10)74002-7
 19. Ichinose K, Bedford DJ, Tornus D, Bechthold A, Bibb MJ, Revill WP, Floss HG, Hopwood DA. The granaticin biosynthetic gene cluster of *Streptomyces violaceoruber* Tü22: sequence analysis and expression in a heterologous host. *Chem Biol.* 1998 Nov;5(11):647-59. doi: 10.1016/S1074-5521(98)90292-7. PMID: 9831526.
 20. Wang J, Zhang R, Chen X, Sun X, Yan Y, Shen X, Yuan Q. Biosynthesis of aromatic polyketides in microorganisms using type II polyketide synthases. *Microbial Cell Factories*. 2020;19(1). doi:10.1186/s12934-020-01367-4
 21. Chaudhary HS, Gopalan N, Shrivastava AR, Singh S, Singh AK, Yadav J. Antibacterial activity of actinomycetes isolated from different soil samples of Sheopur (a city of Central India). *Journal of Advanced Pharmaceutical Technology & Research*. 2013;4(2):118. doi:10.4103/2231-4040.111528