BIOMATERIALS

Antimicrobial resistance has become a global concern, the U.S. and costs billions of dollars to treat antibiotic resistant infections. As antimicrobial resistance to all known antibiotics continues to rise, there is an urgent need to accelerate the drug-discovery pipeline.





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## High-Throughput Screening of Small-Molecule Transport Through Pseudomonas aeruginosa's OccK1 Protein Allyson Karmazyn, Yinghui Dai, and Shikha Nangia Department of Biomedical and Chemical Engineering, Syracuse University, Syracuse, New York 13244, United States

## References

1. Yinghui Dai, Huilin Ma, Meishan Wu, Tory Welsch, Colleen Cassidy, Soor Vora, and Shikha Nangia. "A computational platform for accelerating antibiotics discovery." In preparation 2. H. Ma, D. D. Cummins, N. B. Edelstein, J. Gomez, A. Khan, M. D. Llewellyn, T. Picudella, S. R. Willsey, and S. Nangia. Journal of Chemical Theory and Computation 13, 811–824 (2017). Drug Development Process – Basics. Aurous HealthCare-CRO, 14 July 2016, auroushealthcare.wordpress.com/2016/07/14/drug-development-process-basics/. "WHO Publishes List of Bacteria for Which New Antibiotics Are Urgently Needed." World Health Organization, www.who.int/news-room/detail/27-02-2017-who-publishes-list-of-bacteria-for-whichnew-antibiotics-are-urgently-needed.



