

Stanford



Ryan Stephan Nett

Postdoctoral Research Fellow, Chemical Engineering

Bio

HONORS AND AWARDS

- HHMI Fellow, Life Sciences Research Foundation (LSRF) (9/1/2019)

PROFESSIONAL EDUCATION

- Bachelor of Arts, Gustavus Adolphus College (2012)
- Doctor of Philosophy, Iowa State University (2017)

Research & Scholarship

LAB AFFILIATIONS

- Elizabeth Sattely, Sattely Lab (9/1/2017)

Publications

PUBLICATIONS

- **A metabolic regulon reveals early and late acting enzymes in neuroactive Lycopodium alkaloid biosynthesis.** *Proceedings of the National Academy of Sciences of the United States of America*
Nett, R. S., Dho, Y., Low, Y., Sattely, E. S.
2021; 118 (24)
- **Discovery and engineering of colchicine alkaloid biosynthesis.** *Nature*
Nett, R. S., Lau, W., Sattely, E. S.
2020
- **Unraveling a Tangled Skein: Evolutionary Analysis of the Bacterial Gibberellin Biosynthetic Operon.** *mSphere*
Nett, R. S., Nguyen, H. n., Nagel, R. n., Marcassa, A. n., Charles, T. C., Friedberg, I. n., Peters, R. J.
2020; 5 (3)
- **D2O Labeling to measure active biosynthesis of natural products in medicinal plants** *AICHE JOURNAL*
Nett, R. S., Guan, X., Smith, K., Faust, A., Sattely, E. S., Fischer, C. R.
2018; 64 (12): 4319–30
- **A Third Class: Functional Gibberellin Biosynthetic Operon in Beta-Proteobacteria.** *Frontiers in microbiology*
Nagel, R. n., Bieber, J. E., Schmidt-Dannert, M. G., Nett, R. S., Peters, R. J.
2018; 9: 2916
- **phytohormone with wide distribution in the bacterial rice leaf streak pathogen Xanthomonas oryzae pv. oryzicola.** *New phytologist*
Nagel, R., Turrini, P. C., Nett, R. S., Leach, J. E., Verdier, V., Van Sluys, M., Peters, R. J.
2017; 214 (3): 1260-1266

- **Characterization of CYP115 As a Gibberellin 3-Oxidase Indicates That Certain Rhizobia Can Produce Bioactive Gibberellin A(4)** *ACS CHEMICAL BIOLOGY*
Nett, R. S., Contreras, T., Peters, R. J.
2017; 12 (4): 912-917
- **Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution** *NATURE CHEMICAL BIOLOGY*
Nett, R. S., Montanares, M., Marcassa, A., Lul, X., Nagel, R., Charles, T. C., Hedden, P., Rojas, M. C., Peters, R. J.
2017; 13 (1): 69-74
- **Labeling Studies Clarify the Committed Step in Bacterial Gibberellin Biosynthesis** *ORGANIC LETTERS*
Nett, R. S., Dickschat, J. S., Peters, R. J.
2016; 18 (23): 5974-5977