

# NIH Office of Dietary Supplements (ODS) 2022–2023 Seminar Series

## *Exploring Compound Interactions in Botanical Supplements using NP Analyst*

Roger G. Linington, Ph.D.  
Simon Fraser University  
Burnaby, BC, Canada

Wednesday, October 12, 2022 • 11 a.m. – 12 p.m. ET

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Professor Linington received his B.Sc. in Chemistry from the University of Leeds in the United Kingdom and his Ph.D. from the University of British Columbia in Vancouver, Canada, under the supervision of Prof. Raymond Andersen. He did postdoctoral work with Prof. William Gerwick at the Scripps Institution of Oceanography at the University of California, San Diego, where he was a participating member of the Panama International Cooperative Biodiversity Groups (ICBG) Project. During this time, he lived and worked in Panama City, Panama, running a semi-independent marine natural products drug discovery program.

From 2007 to 2015 he was a faculty member in the Department of Chemistry and Biochemistry at the University of California, Santa Cruz. Since 2015 he has been a Professor of Chemistry at Simon Fraser University in Vancouver, Canada, where he is a Tier I Canada Research Chair in Natural Products and High-Throughput Screening. He is the recipient of several awards, including the 2014 American Society of Pharmacognosy Matt Suffness Young Investigator Award and the 2020 Intellisyn Pharma Research Excellence Award. He has published 94 manuscripts, and his research program focuses on designing new screening and analytical methods for drug discovery and development from natural products.

### Recent Publications

1. Lee, S.; van Santen, J. A.; Farzaneh, N.; Liu, D. Y.; Pye, C. R.; Baumeister, T. U. H.; Wong, W. R.; Linington, R. G. "NP Analyst: An Open Online Platform for Compound Activity Mapping." *ACS Central Science*, 2022;8(2):223–234. PMID: 35233454 PMCID [PMC8874762](#) doi: [10.1021/acscentsci.1c01108](#).
2. van Santen, J. A.; Poynton, E. F.; Iskakova, D.; McMann, E.; Alsup, T. A.; Clark, T. N.; Fergusson, C. H.; Fewer, D. P.; Hughes, A. H.; McCadden, C. A.; Parra, J.; Soldatou, S.; Rudolf, J. D.; Janssen, E. M.-L.; Duncan, K. R.; Linington, R. G. "The Natural Products Atlas 2.0: A Database of Microbially-Derived Natural Products." *Nucleic Acids Research*, 2022; 50(D1);D1317–D1323. PMID: 34718710 PMCID [PMC8728154](#) doi: [10.1093/nar/gkab941](#).
3. Clark, T. N.; Houriet, J.; Vidar, W. S.; Kellogg, J. J.; Todd, D. A.; Cech, N. B.; Linington, R. G. "Interlaboratory Comparison of Untargeted Mass Spectrometry Data Uncovers Underlying Causes for Variability." *Journal of Natural Products*, 2021;84(3):824–835. PMID: 33666420 PMCID: [PMC8326878](#) doi: [10.1021/acs.jnatprod.0c01376](#).



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