

# SEAN M. BENLER

## CURRICULUM VITAE

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### Current Affiliation

Laboratory of Dr. Forest Rohwer, San Diego State University  
5500 Campanile Drive, San Diego, CA 92101

### Educational Preparation

University of California, San Diego & San Diego State University <i>Ph.D. in Cellular and Molecular Biology</i>	2013 – 2018
University of California, Davis <i>B.S. in Biology</i>	2005 – 2010

### Professional History

Teaching Assistant <i>Instructed 24 students per year on microbiology wet-lab techniques</i>	SDSU	2013 – 2018
Quality Control Associate II <i>Employed flow cytometry to analyze monoclonal antibodies</i>	BD Biosciences	2010 – 2013
Research Assistant <i>Characterized phenotypes of rhizobia bacteria as part of an international collaboration</i>	UC Davis	2010

### Publications

1. **Benler, S.**, Hung, S., Lim, Y., McNair, K., Barr, J., Rohwer, F., Segall, A. 'Gp4 is a nuclease required for morphogenesis of T4-like bacteriophages', *Virology (in review)*.
2. **Benler, S.**, Cobian-Guemes, A., McNair, K., Hung, S., Levi, K., Edwards, R., Rohwer, F., 'A diversity-generating retroelement encoded by a globally ubiquitous *Bacteroides* phage', *Microbiome (in press)*.
3. Cobian-Guemes, A., **Benler, S.**, Brettin, T, Cantu, V.A., Conrad, D., Cuevas, D., Dorrestein, P., Edwards, R., Hamidi, R., Lim, Y.W., Maughan, H., Quinn, R., Rohwer, F. 'Cystic Fibrosis Rapid Response: translating multi-omics data into clinically relevant information', *mBio (in review)*.
4. Schooley, R. T., Biswas, B., Gill, J. J., Hernandez-Morales, A., Lancaster, J., Lessor, L., Barr, J. J., Reed, S. L., Rohwer, F., **Benler, S.**, Segall, A. M., Taplitz, R., Smith, D. M., Kerr, K., Kumaraswamy, M., Nizet, V., Lin, L., McCauley, M. D., Strathdee, S. A., Benson, C. A., Pope, R. K., Leroux, B. M., Picel, A. C., Mateczun, A. J., Cilwa, K. E., Regeimbal, J. M., Estrella, L. A., Wolfe, D. M., Henry, M. S., Quinones, J., Salka, S., Bishop-Lilly, K. A., Young, R. and Hamilton, T. 'Development and use of personalized bacteriophage-based therapeutic cocktails to treat a patient with a disseminated resistant

*Acinetobacter baumannii* infection', *Antimicrobial Agents and Chemotherapy* (2017).

5. Quinn, R. A., Vermeij, M. J. A., Hartmann, A. C., Galtier d'Auriac, I., **Benler, S.**, Haas, A., Quistad, S. D., Lim, Y. W., Little, M., Sandin, S., Smith, J. E., Dorrestein, P. C. and Rohwer, F. 'Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence', *Proceedings of the Royal Society B* (2016).

### **Awards**

Hologic Science and Technology Scholarship	2018
James and Mary Crouch Scholarship	2018
Laurel Amtower Scholarship	2018

### **Presentations**

Lake Arrowhead Microbial Genomics	Arrowhead, CA	2018
*Immunogenomics	Huntsville, AL	2017
*California Microbiome Initiative Symposium	San Diego, CA	2017
EMBO Virus of Microbes	Liverpool, UK	2016
* Talks		

### **Trainings and certificates**

American Academy of Underwater Sciences (AAUS) certified	2016
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### **Community outreach and academic service**

Greater San Diego Science and Engineering Fair judge	2014 – 2018
Graduate Student Representative, SDSU	2017 – 2018
<i>Ad hoc</i> reviewer for BMC Biology, Environment Microbiology	2017 – 2018
NSF PIRE international collaborator ( <a href="http://infinite diversity.org">http://infinite diversity.org</a> )	2016
Contributor, <i>An Illustrated History of Phage Research</i> ( <a href="http://2015phage.org/phage_art.php">http://2015phage.org/phage_art.php</a> )	2015