

## Jeremy Barr

jeremybarr85@gmail.com

### Address

Dept. of Biology San Diego State University, 302 North Life Sciences 5500 Campanile Dr., San Diego, CA 92182

### Academic History

- 2013 – Present - Adjunct Assistant Professor, San Diego, CA San Diego State University, The Rohwer Lab.
- 2011 – 2013 - Post-doctoral Research Fellow San Diego, CA San Diego State University, The Rohwer Lab.
- 2007 – 2011 - Doctorate of Philosophy Brisbane, QLD The University of Queensland, Advanced Water Management Centre. Thesis; The Microbial Ecology of Granular Sludge in Enhanced Biological Phosphorus Removal.
- 2009 – 2010 - Graduate Certificate in Research Commercialisation Brisbane, QLD The University of Queensland, School of Business.
- 2005 – 2006 - Honours Class I - Microbiology Brisbane, QLD The University of Queensland, School of Chemistry and Molecular Biosciences. Thesis: Stability of the Violacein Antitumour Antibiotic Gene Cluster in a RecA Mutant of *Rhodobacter sphaeroides*.
- 2002 – 2005 - Bachelor of Biotechnology - Microbiology Brisbane, QLD The University of Queensland, School of Chemistry and Molecular Biosciences.

### Publications

1. **J. J. Barr**, R. Auro, M. Furlan, K. L. Whiteson, M. L. Erb, J. Pogliano, A. Stotland, R. Wolkowicz, A. S. Cutting, K. S. Doran, P. Salamon, M. Youle & F. Rohwer (2013). Bacteriophage adhering to mucus provide a non-host-derived immunity. ***Proceedings of the National Academy of Sciences***.
2. **J. J. Barr**, M. Youle & F. Rohwer (2013). Innate and acquired bacteriophage-mediated immunity. ***Bacteriophage***, 3(3).
3. **J. J. Barr**, F. Slater, T. Fukushima & P. L. Bond (2010). Bacteriophage-host interactions cause community and performance changes in a mixed-culture activated sludge system. ***FEMS Microbiology Ecology***, 74, 631 – 642.
4. **J. J. Barr**, L. L. Blackall & P. L. Bond (2010). Further limitations of phylogenetic group-specific probes used for the detection of bacteria in environmental samples. ***The ISME Journal***, 4(8), 959 – 961.
5. **J. J. Barr**, A. E. Cook & P. L. Bond (2010). Granule formation mechanisms within an aerobic wastewater system operating for phosphorus removal. ***Applied and Environmental Microbiology***, 76(22), 7588 – 7597. Figure published as Journal Cover.
6. **J. J. Barr**, A. E. Cook, T. Fukushima & P. L. Bond (2010). Chapter 11.4: Clone Library Generation. *In: The Microbiology Ecology of Activated Sludge. Eds. R. J. Seviour & P. H. Nielsen.*

7. C. M. Wright, J. E. Larsen, M. L. Colosimo, **J. J. Barr**, L. Chen, R. E. McLachlan, I. A. Yang, R. V. Bowman & K. M. Fong (2010). Genetic association study of CYP1A1 polymorphisms identifies risk haplotypes in nonsmall cell lung cancer. *European Respiratory Journal*, 35(1), 152-159.
8. F. R. Slater, A. C. Singer, S. Turner, **J. J. Barr** & P. L. Bond (2010). Pandemic pharmaceutical dosing effects on wastewater treatment: no adaptation of activated sludge bacteria to degrade the antiviral drug Oseltamivir (Tamiflu) and loss of nutrient removal performance. *FEMS Microbiology Letters*, 315(1), 17-22.
9. J. Mohanakrishnan, M. V. W. Kofoed, **J. J. Barr**, Z. Yuan, A. Schramm & R. L. Meyer (2011). Dynamic microbial response of sulfidogenic wastewater biofilm to nitrate. *Applied Microbial Biotechnology*, 91(6), 1647-57.

### **Awards and Achievements**

- **2010 – AusBiotech-GSK Student Excellence Award**, National finalist for post-graduate biotechnology students, Melbourne, Australia.
- **2010 – Teaching Excellence Award**, Student evaluation of teaching excellence, Avg: 4.9 (scale 1-5, 5 highest), The University of Queensland, Brisbane, Australia.
- **2010 – Commercial Training Scheme Scholarship**, Competitive government grant for the undertaking of a Business School Graduate Certificate, Brisbane, Australia.
- **2009 - ASM Becton-Dickinson PhD Award**, National award for post-graduate microbiology students, Perth, Australia.
- **2009 – Best Student Platform Presentation Award**, Best Student presentation at ASPD5 conference, Aalborg, Denmark
- **2009 - ISME Student Award**, Best Presentation of a proffered microbial ecology paper at The 50<sup>th</sup> ASM conference, Perth, Australia

### **Work History**

- 2006 – 2010 **Practical Demonstrator and Presenter**, Brisbane, QLD The University of Queensland, School of Chemistry and Molecular Biosciences. Subjects: Environmental Engineering, Microbiology, Genetics, Medicine, Dentistry and Biotechnology.
- 2004 – 2007 **Laboratory Technician**, Brisbane, QLD The Prince Charles Hospital, Thoracic Medicine Cancer Research Department.