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## **EDUCATION**

- 2000-2003 Ph.D. in Biology, *magna cum laude* Eberhard-Karls-Universität Tübingen  
Thesis: In Vitro Antifungal Activity and Mechanism of Action of Auristatin PHE.
- 1999-2000 Bio-Informatics semester Eberhard-Karls Universität Tübingen
- 1995-1999 M.S. in Biology, *magna cum laude* Eberhard-Karls-Universität Tübingen  
Thesis: An Approach to Characterize the Phenotype of Latently HSV-1 Infected Sensory Neurons.
- 1993-1995 B.S. in Biology, *magna cum laude* Eberhard-Karls-Universität Tübingen

## **RESEARCH EXPERIENCE**

- 2004-present Department of Energy Joint Genome Institute, Walnut Creek, CA  
*Postdoctoral research.* Analyzed a complex symbiotic microbial community using metagenomics.  
Postdoctoral advisor: Dr. EM Rubin.
- 2000-2003 ASU Cancer Research Institute, Tempe, AZ (collab. Tübingen University)  
*Graduate research.* Studied the activity of dolastatin10, auristatin PHE and other natural products and their synthetic derivatives.  
Graduate advisor: Prof. Dr. GR Pettit.
- 1997-1999 Eberhard-Karls-Universität Tübingen  
*Research assistant.* Participated in several projects involving the determination of bacterial diversity and systematics, production of viral recombinants, tissue culture work and molecular techniques such as the manipulation of chromosomal and plasmid DNA, non-radioactive hybridization techniques and protein expression.

**PEER-REVIEWED PUBLICATIONS**

**Woyke T**, Boffelli D and Rubin EM. Separation of microbial meta-samples. Manuscript in preparation.

Newton ILG, **Woyke T**, Auchtung TA, Dilly GF, Dutton RJ, Fisher MC, Fontanez KM, Lau E, Stewart FJ, Richardson PM, Barry KW, Detter JC, Wu D, Eisen JA, Cavanaugh CM. A window into hydrothermal vent endosymbioses: the *Calyptogena magnifica* chemoautotrophic symbiont genome. Manuscript in preparation/ submission.

**Woyke T**, Teeling H, Ivanova NN, Huntemann M, Richter M, Gloeckner FO, Boffelli D, Anderson IJ, Barry KW, Shapiro HJ, Szeto E, Kyrpides NC, Mussmann M, Amann R, Bergin C, Ruehland C, Rubin EM, Dubilier N. Symbiosis insights through metagenomic analysis of a microbial consortium (2006). *Nature* 443: 950-5.

Pettit RK, **Woyke T**, Pon S, Cichacz ZA, Pettit GR, Herald CL. In vitro and in vivo antifungal activities of the marine sponge constituent spongistatin (2005). *Med Mycol* 43: 453-63.

Hoelzinger DB, Mariani L, Weis J, **Woyke T**, Berens TJ, McDonough WS, Sloan A, Coons SW, Berens ME. Gene expression profile of glioblastoma multiforme invasive phenotype points to new therapeutic targets (2005). *Neoplasia* 7: 7-16.

**Woyke T**, Berens ME, Hoelzinger DB, Pettit GR, Winkelmann G, Pettit RK. Differential gene expression in auristatin PHE-treated *Cryptococcus neoformans* (2004). *Antimicrob Agents Chemother* 48: 561-7.

**Woyke T**, Roberson RW, Pettit GR, Winkelmann G, Pettit RK. Effect of auristatin PHE on microtubule integrity and nuclear localization in *Cryptococcus neoformans* (2002). *Antimicrob Agents Chemother* 46: 3802-8.

**Woyke T**, Pettit GR, Winkelmann G, Pettit RK. In vitro activities and postantifungal effects of the potent dolastatin 10 derivative auristatin PHE (2001). *Antimicrob Agents Chemother* 45: 3580-4.

**COVER ILLUSTRATION**

**Woyke T** and Pettit RK. Microtubule skeleton (anti- $\alpha$ -tubulin) and nuclei (DAPI) during the *Cryptococcus neoformans* cell cycle. *J Med Microbiol*. July 2003.

**ABSTRACTS**

**Woyke T**, Teeling H, Ivanova NN, Huntemann M, Richter M, Gloeckner FO, Boffelli D, Anderson IJ, Barry KW, Shapiro HJ, Szeto E, Kyrpides NC, Musmann M, Amann R, Bergin C, Ruehland C, Dubilier N and Rubin EM. Metagenomic analysis of microbial symbionts in a gutless worm. 114<sup>th</sup> Microbial Genomics Conference. Lake Arrowhead, CA. September 2006.

**Woyke T**, Dubilier N, Boffelli D, Teeling H, Huntemann M, Richter M, Shapiro H, Barry KW, Gloeckner FO and Rubin EM. Metagenome of microbial symbionts in a gutless worm: metabolic insights. Keystone Symposia on Microbial Community Genomics in Animals and in the Environment. Tahoe City, CA. February 2006.

Hoelzinger DB, Berens TJ, **Woyke T**, Tran NL, Sloan A, Coons SW and Berens ME. Molecular characterization of glioblastoma multiformes invasive phenotype by gene expression profiling. Oncogenomics 2003: Dissecting Cancer through Genome Research. Phoenix, AZ. February 2003.

Hoelzinger DB, Berens TJ, **Woyke T**, Tran NL, Watts G, Sloan A, Coons SW and Berens ME. Gene expression profile of glioblastoma multiformes invasive phenotype. Keystone Symposia on Cell Migration and Invasion. Breckenridge, CO. January 2003

**Woyke T**, Roberson RW and Pettit RK. Effects of auristatin PHE on microtubule integrity and nuclear localization in *Cryptococcus neoformans*. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy. San Diego, CA. September 2002.

**Woyke T**, Pettit GR, Roberson RW and Pettit RK. In vitro preclinical evaluation of auristatin PHE and effects on microtubule integrity and nuclear localization in *C. neoformans*. Bridging Disciplines: The key to biomedical research and economic development in the 21st century. The Arizona Disease Control Research Commission and the Flinn Foundation Symposium, Tuscon, AZ. October 2001.

**Woyke T**, Roberson RW and Pettit RK. Pharmacodynamics of a potent dolastatin 10 derivative and effects on cryptococcal cell division. 101st Annual American Society for Microbiology Meeting, Orlando, FL. May 2001.