Sebastian Schmidl, Ph.D.

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**Assistant Professor of Biology, RELLIS Coordinator
2018 to Present, Texas A&M University-Texarkana**

Research Interests

- Host-adapted metabolism and virulence regulation in *Mycoplasma pneumoniae*

- Development of antibiotic resistance in bacterial pathogens

- Regulatory systems in human gut microbiota associated with metabolic diseases

Recently Taught Courses (Past 2 Years)

BIOL 311: General Microbiology
BIOL 310: Genetics
BIOL 402: Cell and Molecular Biology
BIOL 425: Immunology
BIOL 445: Virology
BIOL 447: Synthetic Biology
BIOL 466: Evolutionary Biology
BIOL 472: Intro to Forensic Science
BIOL 481: Seminar in Biology
BIOL 487: Human Parasitology
BIOL 490: Introduction to Biotechnology
CHEM 410: Biochemistry I

Education

UNIVERSITY OF GÖTTINGEN; Göttingen, Germany
Ph.D. in Biology, 2010

UNIVERSITY OF GÖTTINGEN; Göttingen, Germany
M.S. in Biology, 2007
Major: Microbiology; Minors: Human Genetics and Chemistry

Academic Experience

TEXAS A&M UNIVERSITY-TEXARKANA; Texarkana, TX
Assistant Professor of Biology and Coordinator of the Biology Program at RELLIS, 2018 to Present

TEXAS A&M INTERNATIONAL UNIVERSITY; Laredo, TX
Assistant Professor of Biology, 2015 to 2018

RICE UNIVERSITY; Houston, TX
Postdoctoral Research Fellow, 2011 to 2015

UNIVERSITY OF GÖTTINGEN; Göttingen, Germany
Postdoctoral Research Associate, 2010 to 2011

Significant Professional Publications (last 5 years)

Combrink KD, Ramos AR, Spring S, **Schmidl SR**, Elizondo K, Morin P, De Jesus B, Maurer FP (2019) Rifamycin derivatives active against pathogenic rapidly-growing mycobacteria. *Bioorg Med Chem Lett* **29**: 2112-2115.

Schmidl SR*, Ekness F*, Sofjan K, Daeffler KN, Brink KR, Landry BP, Gerhardt KP, Dyulgyarov N, Sheth RU, Tabor JJ (2019) Rewiring bacterial two-component systems by modular DNA-binding domain swapping. *Nat Chem Biol* **15**: 690-698. [*contributed equally.