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- This work was done wholly or mainly while being a candidate for a terminal degree at the University of Tennessee Health Science Center.
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- I have acknowledged all other main sources of help (e.g., lab assistance, joint work on projects, consultations/discussions with colleagues/experts, funding).
- Where the dissertation is based on work done jointly with others, I have made clear what I contributed (see next page).

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Advisor Name: P. David Rogers

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Articles with several authors incorporated into my ET/D and my contributions to them:



- **Chapter 2**
- **Citation:** Nishimoto AT, Zhang Q, Hazlett B, Morschhäuser, Rogers PD. (2019). The contribution of clinically-derived mutations in the gene encoding the zinc cluster transcription factor Mrr2 to fluconazole antifungal resistance and *CDR1* expression in *Candida albicans*. *Antimicrob Agents Chemother*. doi:10.1128/aac.00078-19:AAC.00078-19.
- **My significant contributions:** Conceptualization, Methodology, Validation, Formal Analysis, Investigation, Data Curation, Writing – Original Draft as well as Review & Editing, Visualization, Project Administration

- **Chapter 3**
- **Citation:** Warrilow AG, Nishimoto AT, Parker JE, Price CL, Flowers SA, Kelly DE, Rogers PD, Kelly SL. 2019. The Evolution of Azole Resistance in *Candida albicans* Sterol 14alpha-Demethylase (CYP51) through Incremental Amino Acid Substitutions. *Antimicrob Agents Chemother*. doi:10.1128/AAC.02586-18.
- **My significant contributions:** Validation, Formal Analysis, Investigation, Data Curation, Writing – Original Draft as well as Review & Editing, Visualization

- **Chapter 5**
- **Citation:** Nishimoto AT, Wiederhod NP, Flowers SA, Zhang Q, Kelly SL, Morschhäuser J, Yates CM, Hoekstra WJ, Schotzinger RJ, Garvey EP, Rogers PD. (2019) *In vitro* activities of the novel investigational tetrazoles VT-1161 and VT-1598 compared to the triazole antifungals against azole-resistant strains and clinical isolates of *Candida albicans*. *AntiMicrob Agents Chemother*. doi:10.1128/aac.00341-19:AAC.00341-19..
- **My significant contributions:** Methodology, Validation, Formal Analysis, Investigation, Data Curation, Writing – Original Draft as well as Review & Editing, Visualization

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