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In accordance with the University of Tennessee Health Science Center [Honor Code](#) and the requirements for integrity and honesty laid out in the College of Graduate Health Sciences' [Electronic Thesis & Dissertation \(ET/D\) Learning Portal](#), I, Andrew T. Nishimoto, declare that this dissertation titled “An Investigation into Clinically Relevant Determinants of Azole Resistance in *Candida albicans*” and the work presented therein are my own. I confirm that:

- This work was done wholly or mainly while being a candidate for a terminal degree at the University of Tennessee Health Science Center.
- There is clear and full disclosure in the dissertation for any part that was previously submitted for a degree or any other qualification at this University or any other institution or that has been accepted for publication.
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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).

**Student Name:** Andrew T. Nishimoto

See digital reply with confirmation.

**Advisor Name:** P. David Rogers

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**Declaration of Personal Contributions to Previously Published Articles  
with Several Authors Incorporated into the ET/D  
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Please provide below the Chapter number of the incorporated article(s), the List of References citation, and your significant contributions as first or second author, or indicate Not Applicable. If part of your accepted submission to the journal was a statement of author contributions, you may quote that and at the end indicate [As submitted and accepted by *Journal title*.]

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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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