



ET/D Declaration of Authorship

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, Mohammad Arifur Rahman, declare that this dissertation titled "Identification of Novel CYP2E1 Inhibitor to Investigate Cellular and Exosomal CYP2E1-Mediated Toxicity" 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 thesis/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 thesis/dissertation is based on work done jointly with others, I have made clear what I contributed (see next page).

Student Name: Mohammad Arifur Rahman See digital reply with confirmation.

Advisor Name: Santosh Kumar See digital reply with confirmation.

**Declaration of Personal Contributions to Previously Published Articles
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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 # 1**
- **Citation:** Rahman M. A., Patters B. J., Kodidela S., Kumar S. Extracellular Vesicles: Intercellular Mediators in Alcohol-Induced Pathologies (2019). *J Neuroimmune Pharmacol* (1557-1904). doi: 10.1007/s11481-019-09848-z.
- **My significant contributions:** Conceptualization, Methodology, Validation, Resources, Formal Analysis, Investigation, Data Curation, Writing - Original Draft as well as Review & Editing, Visualization.

- **Chapter # 2**
- **Citation:** Rahman M. A., Midde N. M., Wu X., Li W., and Kumar S. Kinetic Characterizations of Diallyl Sulfide Analogs for Their Novel Role as CYP2E1 Enzyme Inhibitors (2017). *Pharmacol Res Perspect*. Oct, 5(5). doi: 10.1002/prp2.362.
- **My significant contributions:** Participated in Research Design, Conducted Experiments, Performed Data Analysis, Wrote the Manuscript [as submitted and accepted by the publisher].

- **Chapter # 3**
- **Citation:** Rahman M. A., Gong Y., Kumar S. In Vitro Evaluation of Structural Analogs of Diallyl Sulfide as Novel CYP2E1 Inhibitors for Their Protective Effect Against Xenobiotic-induced Toxicity and HIV Replication (2018). *Toxicol Lett*, 292, 31-38. doi: 10.1016/j.toxlet.2018.04.023.
- **My significant contributions:** Participated in Research Design, Conducted Experiments, Performed Data Analysis, Wrote the Manuscript [as submitted and accepted by the publisher].

- **Chapter # 4**
- **Citation:** Rahman M. A., Kodidela S., Sinha N., Haque S., Shukla P.K, Rao R., Kumar S. Plasma Exosomes Exacerbate Alcohol- and Acetaminophen-induced Toxicity via CYP2E1 Pathway (2019). *Sci Rep*, 9(1):6571. doi: 10.1038/s41598-019-43064-2.
- **My significant contributions:** Participated in Research Design, Conducted Experiments, Performed Data Analysis, Wrote the Manuscript [as submitted and accepted by the publisher].

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