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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.

● 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).

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- **Chapter 2**
  - **Citation:** Kuefner M.S., Pham K., Redd J.R., Stephenson E.J., Harvey I., Deng X., Bridges D., Boilard E., Elam M.B., Park E.A. Secretory phospholipase A2 group IIA modulates insulin sensitivity and metabolism. JLR, 2017; 58:1822-1833 https://doi.org/10.1194/jlr.M076141 (51).
  - **My significant contributions:** Project design, Conceptualization, Methodology, Analysis, Investigation, Data collection and Animal Experiments, Writing – Original Draft as well as Review & Editing.

- **Chapter 3**
  - **Citation:** Kuefner M.S., Deng X., Stephenson E.J., Pham K., Park E.A. Secretory phospholipase A2 group IIA enhances the metabolic rate and increases glucose utilization in response to thyroid hormone. FASEB J. 2019; 33:738-749 https://doi.org/10.1096/fj.201800711R (52).
  - **My significant contributions:** Project design, Conceptualization, Methodology, Analysis, Investigation, Data collection and Animal Experiments, Writing – Original Draft as well as Review & Editing.
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