



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, William E. King III, declare that this thesis/dissertation titled "Near-Field Electrospinning and Characterization of Biodegradable Small Diameter Vascular Grafts" 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.
- Where I used the published or unpublished work of others, this is clearly attributed.
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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: William E. King III

See digital reply with confirmation.

Advisor Name: Gary L. Bowlin

See digital reply with confirmation.

**Declaration of Personal Contributions to Previously Published Articles
with Several Authors Incorporated into the ET/D
(This also includes in press and accepted articles.)**

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*.]

If this declaration is not applicable, please indicate here: Declaration of Chapters 4 and 5 will be completed upon publication.

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

- **Chapter 1**
- **Citation:** King W.E., Minden-Birkenmaier B.A., Bowlin G.L. (2020) Synthetic Materials: Processing and Surface Modifications for Vascular Tissue Engineering. In: Walpoth B.H., Bergmeister H., Bowlin G.L., Kong D., Rotmans J.I., Zilla P. (eds) Tissue-Engineered Vascular Grafts. Reference Series in Biomedical Engineering. Springer, Cham.
https://doi.org/10.1007/978-3-030-05336-9_2.
- **My significant contributions:** Conceptualization, Methodology, Software, Validation, Formal Analysis, Investigation, Data Curation, Writing- Original Draft Preparation, Writing- Review and Editing, Visualization.

- **Chapter 2**
- **Citation:** King WE III, Bowlin GL. Near-Field Electrospinning and Melt Electrowriting of Biomedical Polymers—Progress and Limitations. *Polymers*. 2021; 13(7):1097.
<https://doi.org/10.3390/polym13071097>.
- **My significant contributions:** Conceptualization, Methodology, Software, Validation, Formal Analysis, Investigation, Data Curation, Writing- Original Draft Preparation, Writing- Review and Editing, Visualization.

- **Chapter 3**
- **Citation:** King III W.E., Gillespie Y, Gilbert K, L. Bowlin G. Characterization of Polydioxanone in Near-Field Electrospinning. *Polymers*. 2020; 12(1):1. <https://doi.org/10.3390/polym12010001>.
- **My significant contributions:** Conceptualization, Methodology, Software, Validation, Formal Analysis, Investigation, Data Curation, Writing- Original Draft Preparation, Writing- Review and Editing, Visualization.

William E King III ETD Declaration of Authorship for Confirmation

Inbox x



Shirley Hancock

Jun 1, 2021, 5:05 PM (2 days ago)

Greetings, Hunter & Dr. Bowlin -- Attached is Hunter's ETD DOA. To confirm the accuracy of the statements, please Reply

Gary L Bowlin (glbowlin)

Jun 2, 2021, 8:04 AM (1 day ago)



to me, Hunter, Larry

Accuracy of William King's ETD DOA confirmed 06/02/21.

Gary L. Bowlin, Ph.D.

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King, Hunter

Wed, Jun 2, 10:04 AM (23 hours ago)

to me, glbowlin@memphis.edu, Larry

Ms. Hancock,

Accuracy of William King's ETD DOA confirmed 06/02/21.

Thank you,

Hunter King