Curriculum Vitae

Name: Sebastian Oliver Wendel
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Education

- Fachhochschule Giessen, Giessen, Germany — Dipl. Ing. Biotechnology, 2011
- Kansas State University, Manhattan, KS — PhD Chemical Engineering, 2015

Professional Experience

- 2024 – Present: Research Assistant Professor, Kansas State University
- 2015 – 2024: Postdoctoral Fellow, Kansas State University
- 2011 – 2014: Graduate Research Assistant, Kansas State University

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Honors and Awards

- 2023: KINBRE Post-Doctoral Transition Award
- 2021: Co-Chair, Basic Science Oral Session: Antivirals, International Papillomavirus Conference
- 2018: KINBRE Early Stage Post-Doctoral Award
- 2014: National American Chemistry Society SciMix Presentation Award

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Professional Memberships

- 2010 – 2017: American Chemical Society
- 2021 – Present: International Papillomavirus Society
- 2016 – Present: Reviewer for peer-reviewed journal articles (*Nanomedicine, Cancers, Viruses*)

Current Funding

- SO Wendel, 2024, KINBRE-DRPP *Preclinical Development of POLϴ-Inhibitors for the Treatment of Cervical Cancer,* $225,000

Selected Publications

1. **Wendel SO**, Snow JA, Gu L, Banerjee NS, Malkas L, Wallace NA. *The potential of PCNA inhibition as a therapeutic strategy in cervical cancer*. J Med Virol. **2023**.

2. **Wendel SO**, Wallace NA. *Interactions among human papillomavirus proteins and host DNA repair factors differ during the viral life cycle and virus-induced tumorigenesis*. mSphere. **2023**.

3. **Wendel SO**, Stoltz A, Xu X, Snow JA, Wallace N. *HPV 16 E7 alters translesion synthesis signaling*. Virology Journal. **2022**.

4. **Wendel SO**, Snow JA, Bastian T, Brown L, Hernandez C, Burghardt E, et al. *High-Risk α-HPV E6 Impairs Translesion Synthesis by Blocking POLη Induction*. Cancers. **2020**.

5. Udukala DN*, **Wendel SO***, Wang H, Yapa AS, Covarrubias-Zambrano O, Janik K, et al. *Early detection of non-small cell lung cancer in liquid biopsies by ultrasensitive protease activity analysis*. Journal of Cancer Metastasis and Treatment. **2020**. (*First two authors are equal contributors)

6. Bossmann SH, Troyer DL, Malalasekera AP, Wang H, **Wendel SO**, Zhu G. *Nanoplatforms for arginase, indoleamine 2, 3-dioxygenase and tryptophan 2, 3-dioxygenase detection by posttranslational modification*. **Patent, 2019**.

7. Kalubowilage M, Covarrubias-Zambrano O, Malalasekera AP, **Wendel, SO**, et al. *Early Detection of Pancreatic Cancers in Liquid Biopsies by Ultrasensitive Fluorescence Nanobiosensors*. Nanomedicine: Nanotechnology, Biology and Medicine **2018**. (*First four authors are equal contributors)

8. Udukala DN*, Wang H*, **Wendel SO***, Malalasekera AP, et al. *Early breast cancer screening using iron/iron oxide-based nanoplatforms with sub-femtomolar limits of detection*. Beilstein J Nanotechnol. **2016**. (*First three authors are equal contributors)

9. **Wendel SO**, Menon S, Alshetaiwi H, Shrestha TB, Chlebanowski L, Hsu W-W, et al. *Cell-Based Drug Delivery: Micrococcus luteus Loaded Neutrophils as Chlorhexidine Delivery Vehicles in a Mouse Model of Liver Abscesses in Cattle*. PLOS ONE. **2015**.