

## Researcher Information Form

**Name:** Ken Greis

**Department/Division/College:** Cancer Biology-COM

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**Research Interest** (1-2 Sentences):

Dr. Greis' research is focused on mass spectrometry-based technologies to understand cellular and disease mechanisms. Recent cancer-relevant studies have focused on global PTM profiling by both label-free and isotope tagging quantitative mass spectrometry to understand aberrant signaling mechanisms as new therapeutic targets for disease.

**Unique Resources/Techniques:**

A variety of mass spectrometry profiling techniques for protein and metabolite, including identification and quantification.

**Representative Publications (5 Maximum, May use Hyperlink):**

Dwivedi P, Muench D, Wagner M, Azam M, Grimes HL, **Greis KD**. Time resolved quantitative phospho-tyrosine analysis reveals Bruton's Tyrosine kinase mediated signaling downstream of the mutated granulocyte-colony stimulating factor receptors (2019). *Leukemia* 33(1):75-87. [doi: 10.1038/s41375-018-0188-8](https://doi.org/10.1038/s41375-018-0188-8), PMID: 29977015.

Dwivedi P, Muench D, Wagner M, Azam M, Grimes HL, **Greis KD**. Phospho serine and threonine analysis of normal and mutated granulocyte colony stimulating factor receptors. (2019) *Sci Data*, 6(1):21. [doi: 10.1038/s41597-019-0015-8](https://doi.org/10.1038/s41597-019-0015-8), PMID: 30967555.

Muench DE, Olsson A, Ferchen K, Pham G, Serafin, RA, Chutipongtanate S, Dwivedi P, Song B, Hay S, Chetal K, Trump-Durbin LR, Mookerjee-Basu J, Zhang K, Yu JC, Lutzko C, Myers KC, Nazor KL, **Greis KD**, Kappes DJ, Way SS, Salomonis N, and Grimes HL. Mouse models of neutropenia reveal progenitor-stage-specific defects. (2020) *Nature*, 582, 109-114. <https://doi.org/10.1038/s41586-020-2227-7>, PMID: 32494068

Nieder Korn M, Hueneman K, Choi K, Varney ME, Romano L, Pujato MA, **Greis KD**, Inoue J-I, Meetei R, and Starczynowski DT. TIFAB regulates USP15-mediated p53 signaling during stressed and malignant hematopoiesis (2020) *Cell Reports*, 30, 2776–2790. <https://doi.org/10.1016/j.celrep.2020.01.093>, PMID: 32101751.

Dwivedi P, Chutipongtanate S, Muench DE, Azam M, Grimes HL, **Greis KD**. SWATH-proteomics of ibrutinib's action in myeloid leukemia initiating mutated G-CSFR. (2020) *Proteomic Clin. Appl.* [DOI: 10.1002/prca.201900144](https://doi.org/10.1002/prca.201900144), PMID: 32319217