

Matthew Minus, Ph.D.

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CURRICULUM VITAE

EDUCATION

- Ph.D. Chemistry, Rice University, Houston, Texas, 2017
- M.A. Chemistry, Rice University, Houston, Texas, 2013
- B.A. Chemistry, Texas Southern University, Houston, Texas, 2009

EXPERIENCE *(List all previous teaching and administrative positions held relative to Higher Ed.)*

- Prairie View A&M University
Associate Professor, 2019 – Present
Courses: Introduction to Inorganic Chemistry, Organic Chemistry Lab, Introduction to Chemistry Lab
- University of Texas; Southwestern University
Post-Doctoral Fellow, 2017-2019
Courses: Organic Chemistry Lab I & II
- Rice University
Graduate Researcher, 2011 – 2017
Courses: General Chemistry Lab, Organic Chemistry Discussion
- J. Frank Dobie HS
High School Chemistry teacher, 2009 - 2011
Courses: Chemistry

PROFESSIONAL, TECHNICAL AND WORK-RELATED EXPERIENCE AND SKILLS

- 7 years of experience in inorganic synthesis
- 7 years of experience in organic synthesis
- 7 years of experience in chemical analysis - reverse-phase HPLC, silica-gel chromatography, TLC analysis, IR, ITC, UV-Vis, Fluorometer, Microplate Fluorometer, NMR (Proton, Carbon, HSQC, Fluorine), MS (ESI, GC, ICP)
- Additional skills- post-translational protein modification, Gel electrophoresis, chemical decomposition analysis, Chemical blotting, FPLC

PROFESSIONAL ACHIEVEMENTS AND PUBLICATIONS *(5-7 most recent)*

PUBLICATIONS

- *VIP "Rhodium(II) proximity-labeling identifies a novel target site on STAT3 for inhibitors with potent anti-leukemia activity" Minus, M. B.; Liu, W.; Vohidov, F.; Kasembeli, M.; Long, X.; Krueger, M.; Stevens, A.; Kolosov, M.; Tweardy, D.; Redell, M.; Ball, Z. T., **Angew. Chem. Intl. Ed.**, 2015, 54, 13085-13089.
- "Chemical post-translational modification with designed rhodium(II) catalysts" Martin, S. C.; Minus M. B.; Ball, Z. T., **Methods Enzymol.** 2016, academic press.
- "Histidine-directed arylation/alkenylation of backbone N–H bonds mediated by copper(II)" Ohata, J.; Minus, M. B.; Abernathy, M.; Ball, Z. T., **J. Am. Chem. Soc.** 2016, 138 (24), 7472-7475
- "Assessing the intracellular fate of rhodium(II) complexes" Minus, M. B.; Kang, M. K.; Knudsen, S. E.; Liu, W.; Krueger, M.; Redell, M.; Ball, Z. T. **Chem. Commun.**, 2016, 52, 11685-11688.
- " Reengineering a Reversible Covalent-Bonding Assembly to Optically Detect ee in β -Chiral Primary Alcohols " Minus M. B. Feathersen, A.F., Choo, S.Y., King S., Miller S. J., Anslyn E.V.* **Chem**, 2019 , 12, 3003-3005.
- "On One Hand: The Optical Sensing of Enantiomeric Excess," Minus, M. B., **Pot. Energy.**, 2020, 12, 3003-3005
- " Targeting STAT3 anti-apoptosis pathways with organic and hybrid organic–inorganic inhibitors" Minus M. B., Munoz, J., Stevens, A., Krueger, M., Liu, W., Kasembeli, M., Wang, H., Cooper, J.C., Kolosov, M., Tweardy, D.; Redell, M.; Ball, Z. T.* **Org. Biomol. Chem.**, 2020,18, 3288-3296.

ACHEIVEMENTS

- IRACDA fellowship, 2019
- Harry B. Weiss Teaching Award, 2014
- NIH/NRSA (F31) Fellowship, 2013
- NSF-AGEP Fellowship, 2012