

CURRICULUM VITAE

Date Prepared: 02/2020

I. General Information:

Name: David R. Sweet

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Education:

2023 (expected) MD, Case Western Reserve University School of Medicine
2021 (expected) PhD, Department of Pathology, Case Western Reserve University School of Medicine
2014 BS, Degree in Neuroscience, *magna cum laude*, The Ohio State University

Professional Societies:

2019 – Member, Endocrine Society
2018 – Member, North American Vascular Biology Organization (NAVBO)
2016 – Member, American Physician Scientists Association (APSA)
2016 – Member, American Association for the Advancement of Science (AAAS)

Funding:

08/2017 – 07/2021 National Institutes of Health F30 NRSA Pre-doctoral Fellowship
(F30HL139014, PI: D. Sweet)
Myeloid KLF2 mediates S-nitrosylation-driven vascular response to ischemic injury

Awards, Honors, and Professional Service:

2020 Outstanding Abstract Award, Endocrine Society, ENDO2020 Meeting, San Francisco, CA
2019 American Association of Immunologists Travel Award to AAP/ASCI/APSA Meeting, Chicago, IL
2018 NAVBO Travel Award to Vascular Biology Meeting, Newport, RI
2018 First place pre-doctoral poster award, Department of Medicine Research Day, University Hospitals Cleveland Medical Center
2018 Poster award, annual MSTP winter retreat, Case Western Reserve University, Cleveland, OH
2017-2018 MSTP Council Executive Board, Case Western Reserve University, Cleveland, OH
2017 First place pre-doctoral poster award, Department of Medicine Research Day, University Hospitals Cleveland Medical Center
2017 First place overall, Biomedical Graduate Student Symposium, Case Western Reserve University, Cleveland, OH
2017 American Association of Physicians/American Society of Clinical Investigators Travel Award to AAP/ASCI/APSA Meeting, Chicago, IL
2016-2017 MSTP Representative to the Committee on Medical Education, Case Western Reserve University, Cleveland, OH
2016 Poster award, annual MSTP winter retreat, Case Western Reserve University, Cleveland, OH
2014 Graduation with Honors in Arts and Sciences, The Ohio State University, Columbus, OH
2014 Graduation with research distinction in neuroscience, The Ohio State University, Columbus, OH
2014 magna cum laude, The Ohio State University, Columbus, OH
2014 Forum Distinction Award, Neuroscience Colloquium, The Ohio State University, Columbus, OH
2010 – 2014 Dean's list (all semesters), The Ohio State University, Columbus, OH
2010 – 2014 Trustees Scholarship, The Ohio State University

Invited Oral Presentations:

2020 Endocrine Society ENDO2020 Meeting, San Francisco, CA
2018 North American Vascular Biology Organization (NAVBO) Vascular Biology Meeting,

2018	Newport, RI
2018	Lepow Research Day, Case Western Reserve University, Cleveland, OH
2018	Cardiovascular Research Institute Retreat, Case Western Reserve University, Cleveland, OH
2017	Lepow Research Day, Case Western Reserve University, Cleveland, OH

II. Publications:

Original reports:

1. **Sweet DR***, Vasudevan NT*, Fan L, Takami Y, Tugal D, Sharma N, Chan ER, Zhang L, Fu C, Wynshaw-Boris A, Sangwung P, Nayak L, Holvoet P, Matoba K, Lu Y, Zhou G, Jain MK (2019) Myeloid Krüppel-like factor 2 is a critical regulator of metabolic inflammation. *Nat Commun* (In revision)
2. Han S, Ray JW, Pathak P, **Sweet DR**, Zhang R, Gao H, Jain N, Koritzinsky E, Matoba K, Xu W, Chan ER, Simon DI, Jain MK (2019) KLF15 regulates endobiotic and xenobiotic metabolism. *Nat Metab.* **1**: 422-430.
3. Lu Y, Fujioka H, Joshi D, Li Q, Sangwung P, Hsieh P, Zhu J, Torio J, **Sweet D**, Wang L, Chiu SY, Croniger C, Liao X, Jain MK (2018) Mitophagy is required for brown adipose tissue mitochondrial homeostasis during cold challenge. *Sci Rep.* **8**(1): 8251.
4. Liao X, Shen Y, Zhang R, Sugi K, Vasudevan NT, Alaiti MA, **Sweet DR**, Zhou L, Qing Y, Gerson SL, Fu C, Wynshaw-Boris A, Hu R, Schwartz MA, Fujioka H, Hayashi H, Stamler JS, Jain MK (2018) Distinct roles of resident and non-resident macrophages in non-ischemic cardiomyopathy. *Proc Natl Acad Sci U S A.* **115**(20): E4661-9.
5. Gaudet AD, **Sweet DR**, Polinski NK, Guan Z, Popovich PG (2014) Galectin-1 in injured rat spinal cord: Implications for macrophage phagocytosis and neural repair. *Mol Cell Neurosci* **64**: 84-94.
6. Richardson ET, Shukla S, **Sweet DR**, Wearsch PA, Tschlis PN, Boom WH, Harding CV (2015) TLR2-dependent ERK signaling in *Mycobacterium tuberculosis*-infected macrophages drives anti-inflammatory responses and inhibits Th1 polarization of responding T cells. *Infect Immun.* **83**(6): 2242-2254.
7. Gaudet AD, Mandrekar-Colucci S, Hall JC, **Sweet DR**, Schmitt PJ, Xu X, Guan Z, Mo X, Guerau-de-Arellano M, Popovich PG (2016) miR-155 deletion in mice overcomes neuron-intrinsic and neuron-extrinsic barriers to spinal cord repair. *J Neurosci* **36**(32): 8516-8532
8. Shaw MA, Kombrinck KW, McElhinney KE, **Sweet DR**, Flick MJ, Palumbo JS, Cheng M, Esmon NL, Esmon CT, Brill A, Wagner DD, Degen JL, Mullins ES (2016) Limiting prothrombin activation to meizothrombin is compatible with survival but significantly alters hemostasis in mice. *Blood* **128**(5): 721-732

Reviews and Editorials:

1. **Sweet DR**, Fan L, Jain MK (2019) Taking KLF9 to 'Cort' for crimes against metabolism. *J Clin Invest.* **129**(6).
2. Hsieh PN, Fan L, **Sweet DR**, Jain MK (2018) The Krüppel-like factors and control of energy homeostasis. *Endocr Rev.* **40**(1):137-152.
3. **Sweet DR**, Hsieh PN, Fan L, Jain MK (2018) Krüppel-like factors in vascular inflammation: mechanistic insights and therapeutic potential. *Front Cardiovasc Med.* **5**(6): 1-17.
4. Hsieh PN, **Sweet DR**, Fan L, Jain MK (2018) Aging and the Krüppel-like factors. *Trends Cell Mol Biol.* **12**: 1-15.
5. Bateman EM, Schleicher WE, Smith EJ, **Sweet DR**, Gaudet AD (2017) Journal Club: MRI reveals acute inflammation in cortical lesions during early multiple sclerosis. *Neurology.* **90**(8): e724-6.
6. Fan L, Hsieh PN, **Sweet DR**, Jain MK (2017) Krüppel-like factor 15: regulator of BCAA metabolism and circadian protein rhythmicity. *Pharmacol Res.*