***Curriculum Vitae***

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| **Date Prepared:** | September 17, 2025 |
| **Name:** | Yan Y. Sweat, Ph.D. |
| **Office Address:** | 6000 Harry Hines Blvd.Room NB10.216ADallas, TX 75390 |
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**Education**

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| Year | Degree(Honors) | Field of Study(Thesis advisor for PhDs) | Institution |
| 8/2015-5/2020 | Ph.D. | Dr. Brad Amendt | University of Iowa |

**Postdoctoral Training**

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| Year(s) | Titles | Specialty/Discipline(Lab PI for postdoc fellows) | Institution |
| 8/2020-9/2022 | Research Fellow | Dr. Jerrold Turner | Brigham and Women’s Hospital |

**Faculty Academic Appointments**

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| Year(s) | Academic Title | Department | Academic Institution |
| 2025- | Assistant Professor | Internal Medicine | UT Southwestern |

**Other Professional Positions**

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| Year(s) | Position Title | Institution |
| 10/2022-2/2025 | Scientist II | Kojin Therapeutics |
| 2/2025-7/2025 | Visiting Scientist | Boston Children’s Hospital |

**Honors and Awards**

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| Year | Name of Honor/Award | Awarding Organization |
| 2020 | First Place Basic Science Award | Iowa Association for Dental Research |
| 2019 | Dare to Discover Campaign | University of Iowa |
| 2019 | Bernard Sarnat Award First Place | International Association for Dental Research |
| 2019 | First Place Max Smith Oral Presentation | Iowa Association for Dental Research |
| 2019 | Travel Award | American Society for Anatomists |
| 2018 | Travel Award | American Society for Anatomists |
| 2017 | Hugh Vollrath Ross Scholarship | University of Iowa |

**Bibliography**

Original Research Articles

|  |  |
| --- | --- |
|  | Sweat, Mason E., Wei Shi, Yan Y. Sweat, Jie Li, Jiajin Li, Erin M. Keating, Anna Ponek, et al. “TBX5 and CHD4 Coordinately Activate Atrial Cardiomyocyte Genes to Maintain Cardiac Rhythm Homeostasis.” *Circulation*, August 13, 2025. https://doi.org/10.1161/CIRCULATIONAHA.125.073833. |
|  | Su, Dan, Tadkamol Krongbaramee, Samuel Swearson, Yan Sweat, Mason Sweat, Fan Shao, Steven Eliason, and Brad A. Amendt. “Irx1 Mechanisms for Oral Epithelial Basal Stem Cell Plasticity during Reepithelialization after Injury.” *JCI Insight* 10, no. 1 (January 9, 2025). https://doi.org/10.1172/jci.insight.179815. |
|  | Oami, Takehiko, Shabnam Abtahi, Takashi Shimazui, Ching-Wen Chen, Yan Y. Sweat, Zhe Liang, Eileen M. Burd, et al. “Claudin-2 Upregulation Enhances Intestinal Permeability, Immune Activation, Dysbiosis, and Mortality in Sepsis.” *Proceedings of the National Academy of Sciences of the United States of America* 121, no. 10 (March 5, 2024): e2217877121. https://doi.org/10.1073/pnas.2217877121. |
|  | Zuo, Li, Wei-Ting Kuo, Feng Cao, Sandra D. Chanez-Paredes, Daniel Zeve, Prabhath Mannam, Léa Jean-François, et al. “Tacrolimus-Binding Protein FKBP8 Directs Myosin Light Chain Kinase-Dependent Barrier Regulation and Is a Potential Therapeutic Target in Crohn’s Disease.” *Gut* 72, no. 5 (May 2023): 870–81. https://doi.org/10.1136/gutjnl-2021-326534. |
|  | Srivastava, Atul K., Bharat Somireddy Venkata, Yan Y. Sweat, Heather R. Rizzo, Léa Jean-François, Li Zuo, Kathleen W. Kurgan, et al. “Serine 408 Phosphorylation Is a Molecular Switch That Regulates Structure and Function of the Occludin α-Helical Bundle.” *Proceedings of the National Academy of Sciences of the United States of America* 119, no. 34 (August 23, 2022): e2204618119. https://doi.org/10.1073/pnas.2204618119. |
|  | Eliason, Steven, Liu Hong, Yan Sweat, Camille Chalkley, Huojun Cao, Qi Liu, Hank Qi, Hongwei Xu, Fenghuang Zhan, and Brad A. Amendt. “Extracellular Vesicle Expansion of PMIS-miR-210 Expression Inhibits Colorectal Tumour Growth via Apoptosis and an XIST/NME1 Regulatory Mechanism.” *Clinical and Translational Medicine* 12, no. 9 (September 2022): e1037. https://doi.org/10.1002/ctm2.1037. |
|  | Sweat, Yan, Ryan J. Ries, Mason Sweat, Dan Su, Fan Shao, Steven Eliason, and Brad A. Amendt. “miR-17 Acts as a Tumor Suppressor by Negatively Regulating the miR-17-92 Cluster.” *Molecular Therapy. Nucleic Acids* 26 (December 3, 2021): 1148–58. https://doi.org/10.1016/j.omtn.2021.10.021. |
|  | Bezamat, Mariana, Juliana F. Souza, Fernanda M. F. Silva, Emilly G. Corrêa, Aluhe L. Fatturi, João A. Brancher, Flávia M. Carvalho, et al. “Gene-Environment Interaction in Molar-Incisor Hypomineralization.” *PloS One* 16, no. 1 (January 6, 2021): e0241898. https://doi.org/10.1371/journal.pone.0241898. |
|  | Sweat, Mason, Yan Sweat, Wenjie Yu, Dan Su, Riley J. Leonard, Steven L. Eliason, and Brad A. Amendt. “The miR-200 Family Is Required for Ectodermal Organ Development through the Regulation of the Epithelial Stem Cell Niche.” *Stem Cells (Dayton, Ohio)* 39, no. 6 (June 13, 2021): 761–75. https://doi.org/10.1002/stem.3342. |
|  | Yu, Wenjie, Zhao Sun, Yan Sweat, Mason Sweat, Shankar Rengasamy Venugopalan, Steven Eliason, Huojun Cao, Michael L. Paine, and Brad A. Amendt. “Pitx2-Sox2-Lef1 Interactions Specify Progenitor Oral/Dental Epithelial Cell Signaling Centers.” *Development (Cambridge, England)* 147, no. 11 (June 4, 2020): dev186023. https://doi.org/10.1242/dev.186023. |
|  | Sweat, Y. Y., M. Sweat, W. Yu, M. Sanz-Navarro, L. Zhang, Z. Sun, S. Eliason, et al. “Sox2 Controls Periderm and Rugae Development to Inhibit Oral Adhesions.” *Journal of Dental Research* 99, no. 12 (November 2020): 1397–1405. https://doi.org/10.1177/0022034520939013. |
|  | Eliason, Steve, Thad Sharp, Mason Sweat, Yan Y. Sweat, and Brad A. Amendt. “Ectodermal Organ Development Is Regulated by a microRNA-26b-Lef-1-Wnt Signaling Axis.” *Frontiers in Physiology* 11 (July 14, 2020): 780. https://doi.org/10.3389/fphys.2020.00780. |
|  | Sweat, Yan Yan, Mason Sweat, Maurisa Mansaray, Huojun Cao, Steven Eliason, Waisu L. Adeyemo, Lord J. J. Gowans, et al. “Six2 Regulates Pax9 Expression, Palatogenesis and Craniofacial Bone Formation.” *Developmental Biology* 458, no. 2 (February 15, 2020): 246–56. https://doi.org/10.1016/j.ydbio.2019.11.010. |
|  | Sun, Zhao, Clarissa S. G. da Fontoura, Myriam Moreno, Nathan E. Holton, Mason Sweat, Yan Sweat, Myoung Keun Lee, et al. “FoxO6 Regulates Hippo Signaling and Growth of the Craniofacial Complex.” *PLoS Genetics* 14, no. 10 (October 4, 2018): e1007675. https://doi.org/10.1371/journal.pgen.1007675. |
|  | Zhang, Chengfei, Hongwang He, Li Wang, Na Zhang, Hongjun Huang, Qingqing Xiong, Yan Yan, et al. “Virus-Triggered ATP Release Limits Viral Replication through Facilitating IFN-β Production in a P2X7-Dependent Manner.” *The Journal of Immunology* 199, no. 4 (August 15, 2017): 1372–81. https://doi.org/10.4049/jimmunol.1700187. |
|  | Zhang, Na, Hongjun Huang, Binghe Tan, Yinglei Wei, Qingqing Xiong, Yan Yan, Lili Hou, et al. “Leucine-Rich Repeat-Containing G Protein-Coupled Receptor 4 Facilitates Vesicular Stomatitis Virus Infection by Binding Vesicular Stomatitis Virus Glycoprotein.” *The Journal of Biological Chemistry* 292, no. 40 (October 6, 2017): 16527–38. https://doi.org/10.1074/jbc.M117.802090. |
|  | Li, Ruimei, Binghe Tan, Yan Yan, Xiaobin Ma, Na Zhang, Zhi Zhang, Mingyao Liu, Min Qian, and Bing Du. “Extracellular UDP and P2Y6 Function as a Danger Signal to Protect Mice from Vesicular Stomatitis Virus Infection through an Increase in IFN-β Production.” *The Journal of Immunology* 193, no. 9 (November 1, 2014): 4515–26. https://doi.org/10.4049/jimmunol.1301930. |

Reviews, Book Chapters, Monographs and Editorials

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|  | Sweat, Yan Y., and Jerrold R. Turner. “PTPN2 Mutations Cause Epithelium-Intrinsic Barrier Loss That Synergizes with Mucosal Immune Hyperactivation.” *The Journal of Clinical Investigation* 131, no. 17 (September 1, 2021). https://doi.org/10.1172/JCI151414. |
|  | Sweat, Yan Y., Shabnam Abtahi, Sandra D. Chanez-Paredes, Preeti Raju, Li Zuo, Nitesh Shashikanth, Wei-Ting Kuo, and Jerrold R. Turner. “Modulation of Intestinal Disorders by Claudin-2 and Occludin via Canonical and Noncanonical Mechanisms.” In *Tight Junctions*, 85–107. Cham: Springer International Publishing, 2022. https://doi.org/10.1007/978-3-030-97204-2\_5. |

**Non-peer reviewed scientific or medical publications/materials in print or other media (no abstracts)**

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|  | Eaton, John K., Priya Chatterji, Laura Furst, Sneha Basak, Ayesha M. Patel, Yan Y. Sweat, Luke L. Cai, et al. “The Enzyme Glutamate-Cysteine Ligase (GCL) Is a Target for Ferroptosis Induction in Cancer.” *bioRxiv*, April 30, 2024. https://doi.org/10.1101/2024.04.28.591552. |
|  | Eaton, John K., Priya Chatterji, Yan Y. Sweat, Rachelle A. Victorio, Mathias J. Wawer, and Vasanthi S. Viswanathan. “Commonly Used Organoid Culture Media Prevent Ferroptosis.” *bioRxiv*, April 30, 2024. https://doi.org/10.1101/2024.04.29.591759. |