

## Robert Schauner

rschauner@fastmail.com | ORCID: 0000-0002-6336-7331 | www.schauner.com

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Education	B.A., Coe College. Majors: Biology, Molecular Biology. Minor: Chemistry. May 2018
	Ph.D., Department of Pathology, Case Western Reserve University. est. August 2024 O-GlcNAcylation and Response Prediction in Acute Myeloid Leukemia: A Data-Driven Approach Mentors: Dr. David Wald and Dr. Tae Hyun Hwang
Fellowships	Higher Education Research Experience Fellow, Oak Ridge National Lab, Oak Ridge, TN—August 2017- December 2017
Awards	Minority Scholar in Cancer Research Awardee — AACR Annual Meeting 2022
Publications	Automated Manufacture of Autologous CD19 CAR-T Cells for Treatment of Non-Hodgkin Lymphoma—Frontiers in Immunology 2020 Zachary Jackson, Anne Roe, Ashish Sharma, Filipa Blasco Tavares Pereira Lopes, Aarthi Talla, Sarah Kleinsorge-Block, Kayla Zamborsky, Jennifer Schiavone, Shivaprasad Manjappa, <b>Robert Schauner</b> , Grace Lee, Ruifu Liu, Paolo F. Caimi, Ying Xiong, Winfried Kruger, Andrew Worden, Mike Kadan, Dina Schneider, Rimas Orentas, Boro Dropulic, Rafick-Pierre Sekaly, Marcos de Lima, David N. Wald, Jane S. Reese
	Single cell RNA sequencing of AML initiating cells reveals RNA-based evolution during disease progression—Leukemia 2021 L. C. Stetson, Dheepa Balasubramanian, Susan Pereira Ribeiro, Tammy Stefan, Kalpana Gupta, Xuan Xu, Slim Fourati, Anne Roe, Zachary Jackson, <b>Robert Schauner</b> , Ashish Sharma, Banumathi Tamilselvan, Samuel Li, Marcos de Lima, Tae Hyun Hwang, Robert Balderas, Yogen Sauntharajah, Jaroslaw Maciejewski, Thomas LaFramboise, Jill S. Barnholtz-Sloan, Rafick-Pierre Sekaly, and David N. Wald
	Sequential Single-Cell Transcriptional and Protein Marker Profiling Reveals TIGIT as a Marker of CD19 CAR-T Cell Dysfunction in Patients with Non-Hodgkin Lymphoma—Frontiers in Immunology 2022 Zachary Jackson, Changjin Hong, <b>Robert Schauner</b> , Boro Dropulic, Paolo F. Caimi, Marcos de Lima, Maria Florencia Giraud, Kalpana Gupta, Jane S. Reese, Tae Hyun Hwang, and David N. Wald
	NK cells from COVID-19 positive patients exhibit enhanced cytotoxic activity upon NKG2A and KIR2DL1 blockade—Frontiers in Immunology 2023 Grace Lee, <b>Robert Schauner</b> , Juanita Burke, Jade Borocz, Smitha Vasana, Lukasz Sobieraj, Maria Giraud, Zachary Jackson, Qasim Ansari, Maria Navas, Hany Sakr, and David Wald
	Single Cell and Bulk RNA Expression Analyses Identifies Enhanced Hexosamine Biosynthetic Pathway and O-GlcNAcylation in Acute Myeloid Leukemia blasts and stem cells—Frontiers in Immunology 2024 <b>Robert Schauner*</b> , Jordan Cress*, Changjin Hong, David Wald, and Parameswaran Ramakrishnan
	Transcriptional State Evolution in Pediatric Acute Myeloid Leukemia—Biomedical Graduate Student Symposium 2020, Case Western Reserve University
Presentations	Discovering Biomarkers for Pediatric Acute Myeloid Leukemia using single-cell RNA sequencing — ISMB/ECCB 2021
	New platform for novel biomarker discovery using single-cell RNA sequencing on pediatric acute myeloid leukemia samples — AACR Annual Meeting 2022
	Development of a Platform for Biomarker Discovery using scRNA sequencing on Pediatric AML Samples— St. Jude Children’s Hospital Future Fellows Research Conference 2022
Enhanced Hexosamine Biosynthetic Pathway and O-GlcNAcylation in Acute Myeloid Leukemia: A Data-Driven Approach—Immunology Retreat 2024	

	Computer Skills	Analysis Skills	Laboratory Techniques
<b>Skills</b>	Languages: R, Python Linux, Mac, HPC Seurat, tidyverse, git, SLURM snakemake, scverse Affinity Creative Suite	Single-cell RNA seq RNA seq <i>In silico</i> flow cytometry FlowJo	High-parameter (10+) Flow Cytometry 10x Visium Spatial Profiling 10x single-cell Gene Expression Profiling primary cell culture DNA/RNA extraction
<b>Other</b>			American Association of Immunologists – Member 2020 – Rise Up: Northeast Ohio – Teaching Fellow 2020 – Rise Up: Northeast Ohio – Director of Media and Public Relations 2020 –2023 International Society for Computational Biology – Member 2021 – American Association for Cancer Research – Associate Member 2022 –