**Stuart Cansdale**

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*Research Associate with 3 years of experience in immunology, 2 years industry experience in and 1 year of experience as a technician at Stanford University. Proficient in a variety of cellular assays, with a strong focus in multi-color flow cytometry. Skilled in dry lab analysis using FlowJo with experience visualizing and interpreting data using Spotfire.*

**EDUCATION**

**B.S.**, Bioengineering, Santa Clara University, Santa Clara, CASep 2016 – Jun 2020

**PROFESSIONAL EXPERIENCE**

**Gamelandia Palo Alto, CA**

*Retail Associate / part-time* May 2024 – Present

* Hosting events, managing inventory, and helping customers
* Winner of the National “Hobby Shop of the Year 2024” awarded by TCGPlayer and “Best of Peninsula 2024: Best Place to Take Your Kid” Reader’s Choice awarded by Mercury News

**Allogene Therapeutics South San Francisco, CA**

*Associate Scientist / FTE* Jan 2022 – Apr 2023

* Generated allogeneic CAR-T process run data for the analytical and process development teams using multi-color flow cytometry panels for the FACS Verse, Lyric and BD Fortessa
* Presented critical flow cytometry data using Spotfire, FlowJo, and FACSDiva
* Assessed quality of donor starting material by designing a 32 color panel for the Cytek Aurora
* Assisted other product development teams with cell culture, ELISAs, library prep, NGS, and PCR experiments

**Stanford University SNP Center for Allergy & Asthma Research Palo Alto, CA**

*Life Science Technician II / FTE* Mar 2021 – Dec 2021

* Analyzed basophil activation in allergy trial patients using the BD FACS Canto II and Flowjo
* Performed analysis using several assays including ELISA, Luminex, PCR, blood smears, ficoll, EpiTOF, and FACS

**Gritstone Bio Pleasanton, CA**

*Manufacturing Associate II / 6 month contract* Oct 2020 – Mar 2021

* Managed GMP cell lines to manufacture virus for cancer treatments and COVID
* Performed bioreactor scale-up from thawing plasmid to 50 liter single-use bioreactors

**Santa Clara University Department of Bioengineering Santa Clara, CA**

*Research Assistant / part-time* Dec 2016 – Jun 2020

* Co-author of senior thesis project combining a brain-computer interface using live EEG data with Python and MATLAB to recognize brain states for dynamic prosthetic control

**SKILLS**

* multi-color flow & mass cytometry: Flowjo, FACSDiva, FACSVerse, FACSLyric, Cytek Aurora, BD Fortessa, FACS Canto II, Helios
* cell culture: mammalian cell lines, adherent, suspension, closed-system, GMP, bioreactor, scale-up, wave reactors
* Benchling, ELN, LIMS, GDP
* wet lab: ELISA, MiSeq, ficoll, Western Blot, fluorescence microscopy, PCR, NGS, HPLC, blood smears, EpiTOF, Luminex

**PUBLICATIONS**

* Y.S. Jung, J. Aguilera, A. Kaushik, J.W. Ha, **S. Cansdale,** *et al*., K. Nadeau. “Impact of air pollution exposure on cytokines and histone modification profiles at single-cell levels during pregnancy.” *Science Advances,* vol. 10, no. 48, 2024.
* J.W. Ha, J. Aguilera, Y.S. Jung, **S. Cansdale,** *et al*., M. Prunicki. “The impacts of ambient air pollution exposure during pregnancy on maternal and neonatal health: Associations of PM2.5 exposure with immune biomarker levels.” *The Journal of Allergy and Clinical Immunology,* vol. 151, no. 2, 2023.
* J.W. Ha, N. Castano, **S. Cansdale,** *et al*., S. Galli. “Development of Basophil Activation Test (BAT)-based point-of-care diagnostic tool for allergies.” *The Journal of Allergy and Clinical Immunology,* vol. 149, no. 2, 2022.
* B. Baculi, **S. Cansdale,** Y. Yan. “Brainwave Classification for EEG-based Neurofeedback.” *Bioengineering Senior Theses,* 2020.