



# ALEXANDER SCOTT

Principal Scientist

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## PROFESSIONAL SUMMARY

Driven Principal Scientist with a decade of experience in biotechnology and pharmaceutical research. Expertise in leading high-impact projects, developing innovative methodologies, and fostering interdisciplinary collaborations. Passionate about translating scientific insights into transformative solutions that enhance therapeutic outcomes.

## WORK EXPERIENCE

### Principal Scientist

Seaside Innovations

📅 May / 2019–Ongoing

📍 Santa Monica, CA

1. Investigated the molecular mechanisms of cytotoxicity using mouse embryonic stem cells derived from diversity-outbred mice.
2. Expanded and banked a collection of 600 mouse embryonic stem cell clones for future research.
3. Designed and implemented high-throughput lab automation systems, integrating Biomek FX liquid handlers with robotic incubators.
4. Optimized compound screening by determining effective concentrations for diverse compound libraries.
5. Developed a robust protocol for screening 320 mES cell lines across multiple compound concentrations.
6. Analyzed experimental data using GraphPad Prism and authored comprehensive reports on findings.
7. Created and documented standard operating procedures (SOPs) to standardize laboratory processes for team use.

### Principal Scientist

Lakeside Apparel Co

📅 May / 2015–May / 2019

📍 Chicago, IL

1. Designed and executed experiments to enhance the performance and reliability of the Guardant 360 NGS workflow.
2. Oversaw the development and implementation of automated workflows on Hamilton robotic platforms.
3. Managed and trained Research and CLIA Operators during the feasibility and validation phases of new automation projects.
4. Produced technical documentation, including SOPs and validation reports, to meet regulatory compliance requirements.
5. Facilitated the transfer of automated methods to Research and CLIA Operations, ensuring seamless integration.
6. Conducted training sessions for operators on new equipment and processes, enhancing operational efficiency.

## EDUCATION

### Ph.D. in Molecular Biology

Stanford University

📅 May / 2012–May / 2015

📍 Chicago, IL

Focused on molecular mechanisms in biochemistry and cell biology.

## SKILLS

Data Analysis Software



Scientific Strategy



Market Research



Technical Presentations



Clinical Trials



Biostatistics



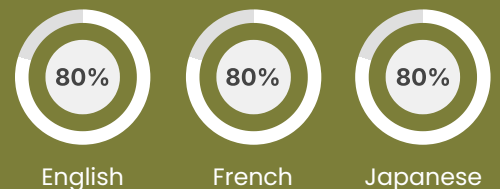
## INTERESTS

- 🤿 Scuba Diving    🎮 E-sports  
🗣️ Reading Fiction    🧩 Puzzle Solving

## STRENGTHS

- 📋 Stewardship    👥 Teamwork  
🔗 Tenacity    🧠 Vision

## LANGUAGES



## ACHIEVEMENTS

- ⭐ Developed a novel screening protocol that improved compound identification efficiency by 30%.
- ⭐ Led a project that resulted in the successful validation of a new automated workflow, reducing processing time by 25%.