AARON COHEN, Ph.D.

Date of birth: 06/12/1990 – Citizenship: French/Israeli
Strasbourg, France – Tel : +33 6 62 24 92 15
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WORK EXPERIENCE

SCIENTIFIC DIRECTOR 2022 - Present
SpacePharma-EU - Illkirch-Graffenstaden, France

POSTDOCTORAL RESEARCH FELLOW 2022 - Present
Biozentrum, University of Basel - Basel, Switzerland
Organoid Scientist: Role of Coronins in Human Gastruloids and Cerebral Organoids development (Pieters Group) | Stem Cell Biology | CRISPR-Cas9 based Genetic Engineering | Transcriptomics -scRNAseq

EDUCATION

Ph.D. BIOENGINEERING 2016 - 2022
The Hebrew University of Jerusalem - Jerusalem, Israel
The Alexander Grass Center for Bioengineering
Biodesign Israel Fellow Medical Innovation program
Advisor: Prof. Yaakov Nahmias
Thesis: ***Human Kidney and Liver-On-Chip Models for Drug Development: Nephrotoxicity and Aging.***

MASTER OF BIOMEDICAL ENGINEERING, M.S. 2014 - 2016
University of Paris Descartes, Mines Paris Tech - Paris, France
Master BME Paris, Major in Biomaterials and Tissue Engineering
Mention « Très Bien » / *summa cum laude*

BACHELOR OF SCIENCE, B.Sc., BIOMEDICAL SCIENCES 2011 - 2014
University of Montreal - Montreal, Canada

INTERNSHIPS

HARVARD UNIVERSITY - Cambridge, MA Feb'16 - Aug'16
Research Trainee
Harvard - MIT Health Science and Technology Department, Prof. Ali Khademhosseini's Lab
Tissue Engineering – Extrusion of self-bending alginate microfibers and manual printing of multimaterial 3D structures with a hydrogel coding device.

TECHNION – ISRAEL INSTITUTE OF TECHNOLOGY - Haifa, Israel Feb'15 - May'15
Research Intern
Department of Biomedical Engineering, Prof. Dror Seliktar's Lab
Burst Release of BMP-2 from PEGylated hydrogels with fibrinogen or albumin with addition of heparin, for bone tissue regeneration. Encapsulation of primary dermal fibroblasts in PEG-fibrinogen microspheres.

MONTREAL HEART INSTITUTE - Montreal, Canada May'14 - Aug'14
Research Intern
Department of metabolomic, Prof. Christine Des Rosiers' Lab, Supervisor: Prof. Lise Coderre
Study of the Akt/mTOR signaling pathway in skin primary fibroblasts of Leigh Syndrome French Canadian type (LSFC) patients.

LANGUAGES – SKILLS

French: Mother Tongue **English:** Fluent **Hebrew:** Fluent

Computer Skills: Pack Office (Word, Excel, Outlook, PowerPoint), ImageJ, MatLab, SolidWorks, Java and R (basics).

COMMUNITY EXPERIENCE

BORD OF DIRECTORS Hillel Montreal (UdeM), Montreal, Canada 2013 - 2014

STUDENT AMBASSADOR Hebrew University, Jerusalem, Israel 2017 - 2019

PUBLICATIONS

- Keinan, E., Abraham AC., **Cohen A.** *et al.* High-Reynolds Microfluidic Sorting of Large Yeast Populations. *Sci Rep* **8**, 13739 (2018).
- Mukaneza, Y., **Cohen A.** *et al.* mTORC1 is required for expression of LRPPRC and cytochrome-c oxidase but not HIF-1α in Leigh syndrome French Canadian type patient fibroblasts. *Am. J. Physiol., Cell Physiol.* **317**, C58–C67 (2019).
- **Cohen** et al. Mechanism and reversal of drug-induced nephrotoxicity on a chip. *Sci. Transl. Med.* **13**, eabd6299 (2021). Cover article.
- **Patent:** A method for reduction of drug-induced nephrotoxicity (2020).
- **Cohen A.** et al. Aminoglycoside-induced lipotoxicity and its reversal in kidney on chip. *Lab on a Chip* (2022).
- **Cohen A.** et al. Capturing critical hallmarks of rapid human aging on chip. TBA (2022).

PRIZES - CONFERENCES - COURSES

- **INVITED SPEAKER**, **European Society for Clinical Investigation** (ESCI)
  Conference 2021.
- **SMART PRIZE 2021 AWARDEE, Alexander Silberman Institute of Life Sciences**
  The Hebrew University of Jerusalem
  Recognize excellent research papers published in top journals by graduate students.
- **TEACHER, Biomaterials for Tissue Engineering**
  The Jerusalem School of Business Administration
  Transdisciplinary Innovation Program (TIP).