

Curriculum Vitae - Jakub Abramson

A. Personal Details

Date of birth: November 25th, 1976
Place of birth: Prague, Czechoslovakia
Citizenship: Israel (2010), Czech Republic
Marital Status: Married (to Hoffit) +3 (Ori, Avishay, Talya)
Office: Dept. of Immunology and Regenerative Biology, Weizmann Institute of Science, Rehovot, Israel
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B. Education

2005-2010: **Post-doctoral fellow**, Harvard Medical School, Boston, MA. Research under supervision of Prof. Diane Mathis & Prof. Christophe Benoist. Research Topic: Molecular mechanisms underlying establishment of self-tolerance in the thymus
2001-2005: **PhD in Immunology**, Weizmann Institute of Science, Israel. Thesis under supervision of Prof. Israel Pecht. Elucidation of functional roles of the *Mast Cell Function-Associated Antigen (MAFA/KLRG1)*.
1995-2000: **M.S. in Biochemistry**, Institute of Chemical Technology (ICT), Prague, Czech Republic. Thesis under supervision of Prof. Pavel Rauch – Development of novel immunochemical methods for detection of *Listeria monocytogenes*

C. Employment

2022-2023 **Distinguished visiting professor**; Sabbatical stay at the Institute of Organic Chemistry and Biochemistry (IOCB); Prague, Czech Republic
2018-present: **Associate Professor** (with tenure), Department of Immunology, Weizmann Institute of Science, Israel.
2011-2018: **Senior Scientist/Assistant Professor** (tenure track), Department of Immunology, Weizmann Institute of Science, Israel.

D. Academic Administration

2020-2022: Cluster Head, Immunity and Infection Cluster of the Excels MSc program in Life Sciences at FGS
2017-2022: Member, The Senior Scientists Appointments Committee of the Life Science Faculties (LSVS) at WIS
2017-2022: Member, Users' committee for animal experimentation, WIS
2017-2020: Member, Institutional Animal Care and Use Committee (IACUC), WIS
2016-2022: Member, Teaching and Education Committee, Feinberg Graduate School
2014-2016: Organiser, Life Science Colloquium, Weizmann Institute of Science
2012: Organizer, The Amos deShalit Summer School Institute for Young Scientists, WIS
2011-present: Member, Admission Committee for MSc & PhD students, Feinberg Graduate School

E. Other Appointments

E1. Teaching

2017-present Main Lecturer, Clinical Immunology (20hrs/semester), Charles University, Prague, Czech Republic
2014-present: Co-lecturer, Basic Course in Immunology (8hrs/semester), Feinberg Graduate School, WIS, Israel
2012-present: Main Lecturer, Clinical Cases in Immunology (20hrs/semester), Feinberg Graduate School, WIS, Israel
2011-2018: Co-lecturer, Advanced Course in Immunology (2hrs/semester), Feinberg Graduate School, WIS, Israel

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E2. Scientific Advisory Boards

- 2016-2022: Member of Life Science evaluation panel for the Israel Science Foundation
2016-present: Member of Steering & Advisory Board, Global Thymus Network
2015-2016: Member of evaluation panel for the Binational Science Foundation

F. International Recognition

F1. Honors & Awards

- 2024 **Falch lecture prize, University of Bergen, Norway**
2021 **Incumbent of the Eugene and Marcia Applebaum Professorial Chair**
2020 **Elected Member of Israel Young Academy**
2017 **Teva-ISF Award** for Promising Biomedical Research
2016 **ERC Consolidator Grant**, European Research Council
2016 **Krill Prize** for Excellence in Scientific Research, Wolf Foundation
2011 **Incumbent of the Dr. Celia Zwillenberg-Fridman and Dr. Lutz Zwillenberg Career Development Chair**
2010 **“Morasha” Award** for Junior Faculty, Israeli Science Foundation
2010 **JDRF Career Transition Award**, Juvenile Diabetes Research Foundation
2007 **Advanced JDRF Postdoctoral Fellowship Award**, Juvenile Diabetes Research Foundation
2005 **JDRF Postdoctoral Fellowship Award**, Juvenile Diabetes Research Foundation
2004 **Aharon Katzir Travel Award**, Aharon Katzir-Katchalsky Center
2001 **NIH Travel Award** for Young Investigators, NIH, Bethesda
2000 **The Karyn Kupcinec Fellowship Award** – ISSI, Weizmann Institute
1997-2000 **Dean’s Scholarship Award for Excellency**, ICT Prague

F2. Invited talks at international meetings and institutions (2018-23)

- 2024: Invited Speaker, **Cold Spring Harbor (CSH) Asia**, Suzhou, China
2024: Invited Speaker, **Immunology® 2024**, American Association of Immunology (AAI), Chicago, USA
2024: Honorary Speaker, **Falch honorary lecture**, University of Bergen, Norway
2024: Co-organizer and speaker; **ThymE 2024**, International meeting on T cells and thymus biology, Porto, Portugal
2024: Invited Speaker, **German-Israeli Immunology workshop**, Rehovot, Israel
2023: Invited Speaker, **32nd Hot Spring Harbor International Symposium** “Recent Advances in Cell Biology and Immunology 2023”; Kyushu, Japan
2023: Invited Speaker, **BIOCEV days conference** “2023”; Prague, Czech Republic
2023: Invited Speaker, **Michael Sela Memorial Conference**, Rehovot, ISR
2022: Invited Speaker, **34th Annual meeting of Czech-Slovak Society for Allergology & Clinical Immunology**, Prague, CZ
2022: Invited Speaker, **Cold Spring Harbor Conference (on Immune system)**, CSHL, USA
2022: Invited Speaker, **8th WIS-Prague Drug Discovery conference**, Prague, CZ
2022: Invited Speaker, **FASEB conference (on Immune system)**; Nova Scotia, Canada (declined)
2021: Invited Speaker, **CCP Phenogenomics conference**; via zoom
2019: Invited Speaker, **Annual meeting of the Swiss Society for Allergology and Immunology (SSAI)**, Lugano, Switzerland
2019: Invited Speaker, **European Network of Immunology Institutes (ENII) Summer school**, Porto Cervo, Sardinia
2019: Invited Speaker, **KB Jebsen symposium**, Stockholm, Sweden
2019: Invited Speaker, **NCBS Course on Developmental Biology**, Bangalore, India
2018: Invited Speaker, **Students Conference in Immunology 2018**, Charles University, Prague
2018: Invited Speaker, **Frontiers in Basic Immunology 2018**, National Cancer Institute, NIH
2018: Invited Speaker; **“EFIS-EJI Tatra Immunology Conference”**, Slovakia
2018: Invited Speaker, **Cold Spring Harbor Conference (on Immune system)**, CSHL (April 2018)
2018: Invited Speaker, **ThymOZ conference**, Australia

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2018: Invited Speaker, "NextGen Immunology" (Cell Press Conference), Israel (February 2018)

2018: Invited Speaker, "9th international symposium on haploidentical HSCT", Israel (January 2018)

F3. Peer-review tasks for international journals (2011-present)

Nature, Nature Reviews Immunology; Nature Immunology, Science Immunology, Journal of Experimental Medicine; Journal of Clinical Investigation; Nature Communications; Cell Reports; Journal of Allergy and Clinical Immunology; Gastroenterology; Journal of Immunology; eLife, Eur. Journal of Immunology; BMC Immunology; Molecular Immunology and Biochemistry, Immunology and Cell Biology, Nuclear Acid Research; Science Signaling, Frontiers in Immunology, FASEB J, etc.

F4. Peer-review tasks for granting agencies (2011-present)

Welcome Trust; Israel Science Foundation (ISF); Ministry of Trade and Science (MOST); Binational Science Foundation (BSF); The Dutch Cancer Society (KWF); The Austrian Science Fund (FWF); Natural Sciences and Engineering Research Council of Canada (NSERC), European Research council (ERC); etc.

G. Scientific productivity

G1. Competitive grants (active grants only)

2021-2025: Israel Science Foundation. Total Funding: ~\$690,000

2022-2024: Minerva; Total funding EUR 150,000

2021-2024: US-Israel Binational Science Foundation (BSF): Total Funding: \$160,000

2020-2023: Merck-Weizmann Research Program: Total Funding: EUR 2,100,000

2020-2023: Chan Zuckerberg Initiative (CZI); Total Funding: \$2,150,000

2017-2023: EU-H2020 - ERC Consolidator grant. Total Funding: €2,200,000

2021-2023: WIS-Sheba collaboration grant; Total funding \$50,000

2021-2022: WIS-Pasteur collaboration grant; Total funding \$50,000

G2. Selected Publications – past 5 years (2018-23)

- C. Bornstein, S. Nevo, A. Giladi, N. Kadouri, M. Pouzolles, F. Gerbe, E. David, A. Machado, A. Chuprin, B. Tóth, O. Goldberg, S. Itzkovitz, N. Taylor, P. Jay, V.S. Zimmermann, **J. ABRAMSON***, I. Amit*: Single-cell mapping of the thymic stroma identifies IL-25-producing tuft epithelial cells; [Nature](#) 2018;559(7715):622-626 (*co-senior & corresponding authors - equal contribution)
Featured in a Nature Rev. Immunology commentary

- M. Delacher, Y. Herzig, F. Brunk, D. Kägebein, U. Träger, S. Schmitt, A.C. Hofer, A. Breiling, R.M. Schmid, G. Federico, H.J. Gröne, **J. ABRAMSON** and M. Feuerer: RBPJ expression in Tregs is essential for restraining TH2 responses [Nature Communications](#) 2019 8;10(1):1621

- N. Kadouri, S. Nevo, Y. Goldfarb **J. ABRAMSON**; Thymic epithelial cell heterogeneity: TEC by TEC. [Nat Rev Immunol.](#) 2020;20(4):239-253.

- Peligero-Cruz, C., Givony, T., Sebé-Pedrós, A., Dobeš, J., Kadouri, N., Nevo, S., Roncato, F., Alon, R., Goldfarb, Y. and **J. ABRAMSON**, IL18 signaling promotes homing of mature Tregs into the thymus. [eLife](#). 2020, doi: 10.7554/eLife.58213

- Goldfarb, Y., Givony, T., Kadouri, N., Dobeš, J., Peligero-Cruz, C., Zelayat, I., Damari, G., Dassa, B., Bendor, S., Gropper, Y., Oftedal, B.E., Bratland, E., Erichsen, M.M., Berger, A., Avin, A., Nevo, S., Haljasorg, U., Kuperman, Y., Ulman, A., Haffner-Krausz, R., Porat, Z., Atasoy, U., Husebye, E.S. & **J. ABRAMSON**. Mechanistic dissection of dominant AIRE mutations in mouse models reveals evidence for AIRE auto-regulation. [Journal of Experimental Medicine](#) 2021, doi: 10.1084/jem.20201076

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- Dobeš, J., Ben-Nun O, Binyamin, A., Oftedal, B.E., Goldfarb, Y., Kadouri, N., Gropper, Y., Givony, T., Filipp, D., Husebye, E.S. & **J. ABRAMSON**. Extrathymic expression of Aire controls the induction of effective TH17 cell-mediated immune response to *Candida albicans*. *Nature Immunology* 2022, doi: 10.1038/s41590-022-01247-6
- Kadouri, N., Goldfarb, Y., Givony, T., Nevo, S., Hey, J., Ben-Dor, S., Damari, G., Dassa, B., Dobeš, J., Weichenhan, D., Bähr, M., Paulsen, M., Haffner-Krausz, R., Mall, M.A., Plass, C. and **J. ABRAMSON** Transcriptional regulation of the thymus master regulator Foxn1. *Science Immunology*, 2022, doi: 10.1126/sciimmunol.abn8144
- **J. ABRAMSON**, Dobeš J., Lyu M., Sonnenberg G.; ROR γ t+ antigen-presenting cells; *Nat Rev Immunol*. 2023; DOI: 10.1038/s41577-023-00906-5
- T. Givony, D. Leshkowitz, D. Del Castillo, S. Nevo, N. Kadouri, B. Dassa, Y. Gruper, R. Khalaila, O. Ben-Nun, T. Gome, J. Dobeš, S. Ben-Dor, M. Kedmi, H. Keren-Shaul, R. Heffner-Krausz, Z. Porat, O. Golani, Y. Addadi, O. Brenner, D. D. Lo, Y. Goldfarb & **J. ABRAMSON**; Thymic mimetic cells function beyond self-tolerance. *Nature* 2023, <https://doi.org/10.1038/s41586-023-06512-8>
- Y. Gruper, A.S.B. Wolff, L. Glanz, F. Spoutil, M. Cuida Marthinussen, A. Osickova, Y. Herzig, Y. Goldfarb, G. Aranaz-Novaliches, J. Dobeš, et al and **J. ABRAMSON**; Autoimmune amelogenesis imperfecta in patients with APS-1 and coeliac disease; *Nature* 2023, doi: 10.1038/s41586-023-06776-0
- S. Nevo, N. Kadouri, N. Rosenthal et al & **J. ABRAMSON**; Tuft cells and fibroblasts promote thymus regeneration through activation of a type-2 immune response *Science Immunology* 2023 (in press)
- B.E Oftedal, A. Berger; Ø. Bruserud; Y. Goldfarb; A. Sulen; L. Breivik; A. Hellesen; S. Ben-Dor, R. Haffner-Krausz; P. Knappskog, S. Johansson, A Wolff, E. Bratland, **J. ABRAMSON**, E.S. Husebye; , A partial form of AIRE deficiency underlies a mild form of Autoimmune Polyendocrine Syndrome Type 1; *J Clinical Investigation*, 2023, doi: 10.1172/JCI169704
- Brabec T; Schwarzer M; Kováčová K; Dobešová M; Schierová D; Březina J; Pacáková I; Šrůtková D; Ben-Nun O; Goldfarb Y; Šplíchalová I; Kolář M; **J. ABRAMSON**; Filipp D, Dobeš J, Segmented filamentous bacteria induce the conversion of cognate CD4+ T-cells to granzyme-positive intraepithelial lymphocytes; *J Exp Med*, 2024, doi: 10.1084/jem.20230194