

Uri Ben-David

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ACADEMIC POSITIONS

- 06/2022 to date **Associate Professor**, Department of Human Molecular Genetics & Biochemistry, Faculty of Medicine, Tel-Aviv University.
- 10/2019-06/2022 **Senior Lecturer (Assistant Professor)**, Department of Human Molecular Genetics & Biochemistry, Faculty of Medicine, Tel-Aviv University.
- 2014-2019 **Postdoctoral Fellow at the Broad Institute of Harvard and MIT**, Cambridge, MA, under the supervision of Prof. Todd R. Golub and Prof. Rameen Beroukhi.

EDUCATION

- 2010-2014 **Ph.D. studies at the Hebrew University of Jerusalem**, Israel, under the supervision of Prof. Nissim Benvenisty, Stem Cell Unit, Dept. of Genetics, Life Sciences Institute. PhD thesis title: “Genomic instability and tumorigenicity of human pluripotent stem cells”.
- 2009-2010 **M.Sc. studies, Dept. of Genetics, Life Sciences Institute, Hebrew University.**
Average of M.Sc. studies: **98.4/100**. Direct Ph.D. program entrance exam: **99/100**.
- 2006-2009 **B.Sc. studies, *summa cum laude*, Life sciences and Cognitive sciences, Hebrew University.** Studies within the excellence program of the Exact Sciences Faculty, “Amirim Teva”. Average of B.Sc. studies: **98/100**.

TEACHING AND MENTORING EXPERIENCE

- 2024 to date Teaching an advance course on “Selected Topics in Cancer Genetics” for PhD students
- 2023 to date Teaching in an undergraduate course on “Tour of research laboratories” for 3rd year undergraduate students
- 2021 to date Teaching the basic “Introduction to Molecular Biology” course for 1st year medical school students (~200 students)
Accredited by the TAU BLEND Program for Innovation in Teaching & Learning
- 2020 to 2023 Teaching a graduate level course on “Scientific Writing”
- 2019 to date Mentoring 3 Staff Scientists, 3 postdocs, 4 PhD students, 5 MD/PhD students, 5 MSc student, 2 MD thesis students, and 7 undergraduate students
- 2016-2018 Coaching in the Cancer Program “Bootcamp” Training
- 2016-2019 Training and mentoring a full-time Research Associate
- 2012-2019 Training and mentoring undergraduate students

2012-2014	Teaching assistant at the Hebrew University Life Sciences Institute: Human Genetics course for 3 rd year biology students
2010-2012	Teaching assistant at the Hebrew University Life Sciences Institute: General Genetics course for 1 st year biology students

PROFESSIONAL TRAININGS

2023	8400 iTranslate Program for translational research in HealthTech
2023	Tel Aviv University 'Time Management' workshop
2021	Azrieli Foundation 'Storytelling' Workshop
2020	HFP 'Grant Writing' workshop
2020	Tel Aviv University 'Effective Interviewing' workshop
2020	Tel Aviv University 'Team Leadership' workshop
2019	EMBO 'Lab Leadership' Course

OTHER EXPERIENCE

2011-2014	Translating Latino American literature from Spanish to Hebrew: Jorge Luis Borges' <i>De que nada se sabe</i> , Carmel Publishing House (2012) Reinaldo Arenas' <i>Celestino antes del alba</i> , Carmel Publishing House (2014)
2011-2014	Volunteering with high school students (through "Hoshen" organization)
2007-2014	Volunteering with Holocaust survivors (through "Amcha" organization)
2001-2006	Military service as an intelligence officer in a special intelligence unit, with honors

LANGUAGES

Hebrew	Native speaker
English	Very high level
Spanish	Medium level

INDEPENDENT GRANTS & RESEARCH FUNDS

Ongoing Active Grants

2025-2026	Northwestern-Tel Aviv-Toronto Joint Call for Proposals: Longevity and Healthy Aging
2024-2028	The United States – Israel Binational Science Foundation Research Grant (co-PI with Dr. Jason Sheltzer from Yale; \$300K total)
2023-2026	The Israel Cancer Research Fund Project Grant (\$180K total)
2021-2026	The European Research Council (ERC) Starting Grant (\$1.85M total)
2021-2026	Israel Science Foundation Project Grant (\$420K total)
2021-2025	Israel Precision Medicine Partnership (IPMP) Research Grant (co-PI with Prof. Ittai Ben-Porath and Dr. Amir Sonnenblick; \$680K total)

Previous Funding

2023-2024	The Faculty of Medicine Research Foundation Seed Grant (\$15K total)
2021-2024	Israel Science Foundation New Faculty Equipment Grant (\$240K total)
2020-2024	The United States – Israel Binational Science Foundation Research Grant (co-PI with Prof. Angelika Amon from MIT; \$224K total)
2023	The Israel Cancer Association Research Grant (\$15K total)
2023	EMBO Young Investigators Small Grant (\$10K total)
2021-2023	NovoCure Tumor Treating Fields Research Grant (\$220K total)
2020-2023	The Department of Defense (DoD) Peer Reviewed Cancer Research Program (PRCRP) Career Development Award (\$450K total)
2020-2023	The Israel Cancer Research Fund ‘Gesher’ Award (\$176K total)
2019-2022	The Azrieli Foundation Faculty Fellowship (\$210K total)
2021-2022	The Forbeck Foundation Accelerator Grant (\$30K total)
2021-2022	The TAU/CBRC-LaTrobe/ONJ Collaboration Grant (co-PI with Prof. Delphine Merino; \$30K total)
2021-2022	The Clinical-Bioinformatics Collaboration Grant of the Edmond J. Safra Center for Bioinformatics and the School of Medicine at TAU (co-PI with Prof. Benny Dekel; \$20K total)
2021-2022	The Faculty of Medicine Research Foundation Seed Grant (\$11K total)
2021	The Shtacher Award for Biomedical Research (\$8K total)
2021	The WGFRE COVID-19 Recovery Grant (\$15K total)
2020-2021	The Israel Cancer Association Research Grant (\$23K total)
2020	The Cancer Biology Research Center Research Grant (\$20K total)
2019-2020	The Eimert Research Fund on Solid Tumors (\$50K total)
2019-2022	The National Cancer Institute (NCI) Career Transition Award (K22) (\$450K total, relinquished)
2019-2024	Cancer Prevention and Research Institute of Texas Recruitment of First-Time Tenure-Track Faculty Members (\$2M total, relinquished)
2016-2017	The Broad Institute Broadnext10 research grant (\$75K total)

ACADEMIC AWARDS & SCHOLARSHIPS

International

2023	Dr. Joseph Steiner Cancer Research Award 2023 – Finalist (one of six)
2022-2026	EMBO Young Investigator Member
2021	Cells 2021 Young Investigator Award
2020	The American Association for Cancer Research (AACR) ‘ Next Generation Star ’ Award
2018	Pacific Symposium on Biocomputing Research Parasite Award for outstanding secondary analysis of data
2016	AACR-Susan G. Komen Scholar-in-Training Award for participation at the American Association for Cancer Research annual meeting (New Orleans, USA)

2015	American Society of Cell Biology Kaluza Prize for outstanding Ph.D. dissertation
2016-2020	Forbeck Research Foundation Scholar Award in the field of Aneuploidy and Chromosomal Instability
2015	Selected participant at the 65 th Lindau Nobel Laureate Meeting (Lindau, Germany)
2015-2018	Human Frontier Science Program Postdoc Fellowship
2014-2015	EMBO Long Term Postdoc Fellowship
2013	The Dan David Scholarship Award , Future Time Dimension, Preventive Medicine
2013	Best Poster Award , Israel Stem Cell Society (ISCS) 5 th international meeting
2013	Travel Award Grant for oral presentation, International Society for Stem Cell Research (ISSCR) 11 th annual conference (Boston, USA)
2012	Participant at the Merck Serono Innovation Cup 2012
2012	Travel Award Grant for oral presentation, International Society for Stem Cell Research (ISSCR) 10 th annual conference (Yokohama, Japan)
2011	Travel Award Grant for oral presentation, International Society for Stem Cell Research (ISSCR) 9 th annual conference (Toronto, Canada)
2010	Travel Award Grant for poster presentation, International Society for Stem Cell Research 8 th annual conference (San Francisco, USA)

National

2024-2028	Elected Member, The Israel Young Academy
2022	The Wolf Foundation's Krill Prize for Excellence in Scientific Research
2014	Rothschild Postdoc Fellowship
2012-2014	Clore Foundation Scholarship for outstanding Ph.D. students
2011	Aharon Katzir Student Travel Fellowship

Institutional

2024	Excellent Publication Award , Faculty of Medicine, Tel Aviv University
2023	The Kadar Award for Outstanding Research
2023	The Rector's Award for Innovation and Creativity in Teaching
2023	The Stolz Award for Junior Faculty in Medicine and Health Professions
2022	Dean's Award for Excellence in Teaching
2021	Best Publication Award , Faculty of Medicine, Tel Aviv University
2021	The Shtacher Award for Biomedical Research for an excellent researcher at the Department of Human Molecular Genetics & Biochemistry
2018, 2019	Best Poster Award , The Annual Cancer Genetics Symposium of Dana-Farber and Harvard Cancer Center (Boston, USA)
2015	The Hans Weiner Prize for outstanding Ph.D. dissertation, Hebrew University
2014	The Dimitris N. Chorafas Foundation Award for outstanding Ph.D. dissertation
2013	The Kaye Innovation Award , 1 st prize for students
2013	Menashe Markus Prize for an outstanding Ph.D. student at the Dept. of Genetics
2010-2014	Dean's List of Outstanding Teachers for the years 2011, 2012, 2013 and 2014

2010-2013	SMART Prize for the best article of the month, Life Sciences Institute. Awarded five times: Oct 2010, Aug 2011, Feb 2012, Feb 2013 and Aug 2013
2012	Best Poster Award , Faculty of Natural Sciences posters contest
2012	Travel Grant from the Research Students Authority of the Hebrew University
2011	SMART Prize for best article of the year (2010), Life Sciences Institute
2010	Pollack Prize for excellent M.Sc. students
2009	Excellence Scholarship for M.Sc. students (from Hebrew University)
2008	Rector's Prize , second year of B.Sc. studies
2007-2009	Dean's Prize , first, second and third year of B.Sc. studies
2007-2009	Excellence Scholarship for B.Sc. students ("Amirim Teva" program)

REVIEWING ACTIVITY & EDITORIAL BOARDS

2023 to date	Academic Editor, <i>PLOS Genetics</i>
2013 to date	Ad hoc reviewer of >85 manuscripts for <i>Nature</i> , <i>Science</i> , <i>Nature Genetics</i> , <i>Nature Cancer</i> , <i>Nature Biotechnology</i> , <i>Nature Cell Biology</i> , <i>Cancer Discovery</i> , <i>Cancer Research</i> , <i>Nature Reviews Cancer</i> , <i>Nature Reviews Drug Discovery</i> , <i>Nature Reviews Molecular Cell Biology</i> , <i>Nature Reviews Clinical Oncology</i> , <i>Cell Systems</i> , <i>Genome Biology</i> , <i>PNAS</i> , <i>Science Advances</i> , <i>Stem Cell Reports</i> , <i>Nature Communications</i> , <i>PLoS Computational Biology</i> , <i>The EMBO Journal</i> , <i>Molecular Systems Biology</i> , <i>Nucleic Acids Research</i> , <i>npj Precision Oncology</i> , <i>Cell Death & Disease</i> , <i>iScience</i> , <i>Molecular Cancer Therapeutics</i> , <i>eLife</i> , <i>BMC Genomics</i> , <i>Trends in Cancer</i> , <i>Trends in Molecular Medicine</i> , <i>Chromosome Research</i> , <i>Review Commons</i> , <i>Stem Cells</i> , <i>Stem Cells Translational Medicine</i> , <i>PLOS One</i> , <i>Communications Biology</i> , <i>Seminars in Cell and Developmental Biology</i> , <i>Molecular and Cellular Therapies</i>
2014 to date	Ad hoc reviewer of >35 grant applications for the European Research Council (ERC) Starting Grant, Israel Science Foundation (ISF), Israel Cancer Association (ICA), Swiss Cancer Research Foundation, Austrian Science Fund (FWF), Dutch Cancer Society (KWF), Worldwide Cancer Research (WCR), Cancer Research Trust New Zealand, Azrieli Postdoctoral Fellowship Program, Czech Science Foundation, Willy Gepts Research Foundation, International Society for Stem Cell Research (ISSCR), ETH Zurich Latsis Prize, Boehringer Ingelheim Fonds PhD Fellowship, UK Research and Innovation (UKRI) Future Leaders Fellowship
2013-2016	Advisory Board member of <i>Molecular and Cellular Therapies</i>
2011-2019	Indirect ad hoc reviewer (through PI) of >20 manuscripts for <i>Nature</i> , <i>Cell</i> , <i>Nature Genetics</i> , <i>Nature Biotechnology</i> , <i>Cell Stem Cell</i> , <i>Stem Cell Reports</i> , <i>Stem Cells</i> , <i>Nature Communications</i> , <i>EMBO Molecular Medicine</i>

COMMITTEES & ORGANIZATIONAL DUTIES

National & International

2024-date	The Israel Young Academy
2024-date	ISF Cancer and Oncology Review Committee
2023	Israel's Ministry of Innovation, Science and Technology, Precision and Personalized Medicine Grant Panel
2022	Israel Innovation Authority panel of experts for ERC Starting Grants interview preparation
2021-date	BSF Scientific Advisory Panel (regular grants program)
2021	Technion Human Health Initiative (THHI) scientific advisory committee
2020-date	Member of Ph.D thesis committees and/or examiner of PhD theses: DKFZ, Germany Technion, Israel (x3) The Hebrew University, Israel (x2) Monash University, Australia
2019 to date	International member of Ph.D. thesis defense juries: Faculty of Medicine and Pharmacy, Vrije Universiteit Brussel (VUB), Brussels, Belgium (x2) Institute of Biomedical sciences, University of Porto, Porto, Portugal University of Groningen Medical Center, Groningen, Netherlands (x2)

Institutional

2024	Ad-Hoc Tenure Committee for a Faculty Member
2024-date	Member, Edmond J. Safra Center for Bioinformatics, Tel Aviv University
2024	Co-organizer, Career Development Lecture Series for PhD students, Faculty of Medicine, TAU
2024	Chair, Safra Bioinformatics Retreat Program Committee
2023-date	Member, Cancer Biology Research Center (CBRC) Steering Committee, TAU
2023-date	Member, Teaching Assistants Selection Committee, Faculty of Medicine, TAU
2023-date	Head, TAU-MED Program, TAU
2023-date	Member, International Affairs Task Force, Faculty of Medicine, TAU
2023	Member, Committee for Scholarships on the Basis of Social Contribution to the Faculty and to Society
2022-date	Academic Head, Genomic Analysis Lab and Single Cell Analysis Core, TAU
2022-date	Member, M.D./Ph.D. Committee, Faculty of Medicine, TAU
2022-date	Interviewing and evaluating PhD candidates for the Medicine Faculty
2021	Member, Safra Bioinformatics Retreat Program Committee
2020-date	Member: PhD thesis committees (x8); MSc thesis committees (x8); and MD thesis committees (x3)
2020 to date	Member, Instrumentation and Service Center Committee, Faculty of Medicine, TAU
2020 to date	Organizing the weekly Departmental Seminar Series, Department of Human Molecular Genetics & Biochemistry, Faculty of Medicine, TAU

2019 to date	Reviewing multiple (>15) Faculty grant applications and thesis proposals, as well as grant applications for the Safra Center for Bioinformatics and the Alrov Center for Digital Medicine
2019-2024	Affiliate, Edmond J. Safra Center for Bioinformatics

ORAL PRESENTATIONS

International

2026	The EACR Conference on Chromosome Integrity and Chromosomal Catastrophes in Cancer, Berlin, Germany (co-chair & invited speaker)
2025	Forbeck Forum on Targeting Cancer Evolution, Oleggio Castello, Italy (invited speaker)
2025	Company of Biologists Workshop on Whole Genome Doubling, Hertfordshire, UK (invited speaker)
2025	Mark Foundation Meeting on Chromosomal Instability, New Haven, USA (invited speaker)
2025	The European Association for Cancer Research (EACR) Annual Meeting, Lisbon, Portugal (invited speaker & invited moderator of a career session)
2025	The EMBO Meeting on Chromosome Segregation and Aneuploidy, Laggo Maggiore, Italy (co-chair)
2025	Koch Institute for integrative Cancer Research at MIT, Cambridge, USA (invited speaker)
2025	‘Seminars in Oncology’ Seminar Series, Dana Farber Cancer Institute, Boston, USA (invited speaker)
2025	‘Innovators in Cancer’ Seminar Series, Broad Institute of MIT and Harvard, Cambridge MA, USA (invited speaker)
2025	Institute of Biochemistry, Charité University, Berlin, Germany (invited speaker)
2025	International Young Academies Meeting, Berlin, Germany (co-organizer)
2025	Vienna BioCenter Seminar Series, Vienna BioCenter, Vienna, Austria (invited speaker)
2025	NIH National Cancer Institute Genetics Branch Seminar Series, NIH/NCI Bethesda, USA (invited speaker , online seminar)
2024	EMBO Annual Meeting: 60 Years of EMBO, Heidelberg, Germany (invited speaker)
2024	The Italian Cancer Society (SIC) Annual Meeting, Milan, Italy (invited speaker)
2024	The FASEB Meeting on Consequences of Aneuploidy, Melbourne Florida, USA (invited speaker)
2024	FEBS/EMBO Lecture Course on Molecular Mechanisms in Signal Transduction and Cancer, Spetse, Greece (invited speaker)
2024	International Workshop on Chromosomal Instability, Cambridge, UK (invited speaker)

2024	The Gordon Research Conference (GRC) on Drug Resistance, Rhode Island, USA (invited speaker)
2024	The AACR Conference on Expanding and Translating Cancer Synthetic Vulnerabilities, Montreal, Canada (invited speaker)
2024	The EMBO Young Investigators Sectoral Meeting on Cancer, Lednice, Czech Republic (invited speaker)
2024	The Duke-NUS Medical School, School Lecture, Singapore (invited lecture)
2024	The A*STAR Institute of Molecular and Cell Biology, Institute Lecture, Singapore (invited speaker)
2024	The Cancer Science Institute, National University of Singapore, Institute Lecture, Singapore (invited speaker)
2024	Regina Elena National Cancer Institute, Institute Seminar, Rome, Italy (invited speaker)
2024	The Indian Cancer Research Association (ICRA) Annual Meeting, Pune, India (invited speaker)
2023	CNIO-CaixaResearch Frontiers Meeting: Metastasis, Madrid, Spain
2023	Department of Human Genetics, Cancer Center Amsterdam, Guest Speaker, Amsterdam, Netherlands (invited speaker , online lecture)
2023	Fondation des Treilles Meeting on DNA Damage in Mitosis, Provence, France (invited speaker)
2023	Cancer Research UK Cambridge Institute, Quant Bio Seminar Series (QBSS), Cambridge, UK (invited speaker)
2023	The International PhD Student Cancer Conference (IPSCC), Cambridge, UK (invited keynote speaker)
2023	The 14 th European Cytogenomics Conference, Montpellier, France (invited speaker)
2023	The Mark Foundation Meeting on Chromosomal Instability, London, UK (invited speaker)
2023	Gordon Research Conference on Molecular Mechanisms of Evolution, Boston, USA (invited speaker ; declined due to a time conflict)
2023	The Broad-ISF 10 th Annual Meeting, Jerusalem, Israel (invited speaker)
2023	The European Institute of Oncology (IEO), Milan, Italy (invited speaker)
2023	The EMBO Young Investigators Annual Meeting, Milan, Italy (invited speaker)
2023	The EMBO/CBRC Joint Symposium, Tel Aviv, Israel (co-chair)
2023	The EMBO Young Investigators Sectoral Meeting on Cancer, Tel Aviv, Israel (co-chair)
2023	Bengaluru – Indian Institute of Sciences (IISc), Bangalore, India (invited speaker)
2023	Chennai – Indian Institute of Technology, Madras (IIT Madras), Chennai, India (invited speaker)
2023	Trivandrum – Indian Institute of Science Education and Research (IISER TVM), Thiruvananthapuram (Trivandrum), India (invited speaker)

2022 Center For Cancer Research, National Cancer Institute, Bethesda, USA (**invited speaker**, online lecture)

2022 Computational and Genomic Cancer Research Meeting, Haifa, Israel (**invited speaker**)

2022 Broad Institute of Harvard and MIT Cancer Program Seminar Series, Cambridge, USA (**invited speaker**)

2022 Geisel School of Medicine at Dartmouth University Seminar Series, Hanover, USA (**invited speaker**)

2022 Duke University ‘Regulatory Networks in Health and Disease’ Seminar Series, Durham, USA (**invited speaker**)

2022 The FASEB Meeting on Consequences of Aneuploidy, Boston, USA (**invited speaker**)

2022 Olivia Newton-John Cancer Research Institute (ONJCRI) 2022 Seminar Series, Melbourne, Australia (**invited speaker**; online lecture)

2022 The EMBO Young Investigators Sectoral Meeting on Cancer, Benasque, Spain (**invited speaker**)

2022 Medicine 2042 Congress, Tel Aviv, Israel (**invited speaker**)

2022 The EMBO Young Investigators Annual Meeting, Heidelberg, Germany (**invited speaker**)

2022 The 18th International p53 Workshop, Rehovot, Israel

2022 EMBO Meeting on Chromosome Segregation and Aneuploidy, Vienna, Austria (**invited speaker**)

2022 Forbeck Meeting on Aneuploidy in Cancer Development, Prognosis and Treatment, Oleggio Castello, Italy (**conference co-chair and invited speaker**)

2022 The Annual Portuguese Genetics Meeting (“Portugaliae Genetica”), Porto, Portugal (**invited keynote speaker**)

2021 The University of Minnesota Ovarian Cancer Conference, Minneapolis, USA (**invited keynote speaker**)

2021 The University of Virginia (UVA) Cancer Center Seminar, Charlottesville, USA (**invited speaker**, online lecture)

2021 The Japanese Cancer Association 80th Annual Meeting, Yokohama, Japan (**invited speaker**, online lecture)

2021 Harvard Medical School, Boston, USA (**invited speaker**, online lecture)

2021 Aneuploidy and Chromosomal Instability Forum, NY, USA (**invited speaker**, online meeting)

2021 HUGO Human Genome Meeting (**invited speaker**, online meeting)

2021 Regina Elena National Cancer Institute, Rome, Italy (**invited speaker**, online lecture)

2021 The 33rd Annual Lorne Cancer Conference, Lorne, Australia (**invited keynote speaker**, online meeting)

2020 The University of Milan, Course on Biomedical Omics for M.Sc. students, Milan, Italy (**invited speaker**; online lecture)

2020 The UCL Genetics Institute Seminar Series, London, UK

	(invited speaker ; online lecture)
2020	The Adamas University, Calcutta, India (invited speaker ; online lecture)
2020	The American Association for Cancer Research (AACR) annual meeting, San Diego, USA (invited speaker ; online meeting)
2020	The European Association for Cancer Research (EACR) 26 th congress, Torino, Italy (online meeting)
2020	The European Institute of Oncology (EIO), Milan, Italy (invited speaker ; cancelled due to COVID-19)
2020	The Annual Portuguese Genetics Meeting (“Portugaliae Genetica”), Porto, Portugal (invited keynote speaker ; cancelled due to COVID-19)
2019	The Faculty of Medicine and Pharmacy, Vrije Universiteit Brussel (VUB), Brussels, Belgium (invited speaker)
2019	The Forbeck Foundation Annual Scholar Retreat, Wisconsin, USA (invited speaker)
2019	MIT Center for Precision Cancer Medicine Seminar Series, Cambridge, USA (invited speaker)
2019	Gordon Research Conference on Cell Growth and Proliferation, Vermont, USA
2019	EMBO Policy Workshop on Cell Line Heterogeneity, Heidelberg, Germany (invited speaker)
2019	EMBO Chromosome Segregation and Aneuploidy Workshop, Cascais, Portugal
2019	The Functional Genomics Consortium, Cambridge, USA (invited speaker)
2018	The Forbeck Foundation Annual Scholar Retreat, Wisconsin, USA (invited speaker)
2018	EACR-AACR-ISCR Conference: The Cutting Edge of Contemporary Cancer Research, Jerusalem, Israel
2018	The EurOPDX Workshop on Preclinical Models in Clinical Oncology and Cancer Precision Medicine, Weggis, Switzerland (invited keynote speaker)
2018	Cold Spring Harbor Laboratory Meeting on Mechanisms and Models of Cancer, Cold Spring Harbor, USA
2018	The Joint Center for Cancer Genome Discovery (CCGD)-Profile Conference, Boston, USA (invited speaker)
2018	The Human Cancer Models Initiative Meeting, Rockville, USA (invited speaker)
2017	The American Society of Cell Biology (ASCB) – European Molecular Biology Organization (EMBO) Annual Meeting, Philadelphia, USA
2017	The Forbeck Foundation Annual Scholar Retreat, Wisconsin, USA (invited speaker)
2017	The PSCP-ISCI Genetics Workshop, Sheffield, UK (invited speaker)
2016	The Forbeck Foundation Annual Forum, North Carolina, USA
2016	EMBO Fellows meeting, Boston, USA
2016	The International Stem Cell Initiative (ISCI) workshop, Bar Harbor, USA (invited session co-chair)
2016	IPITA-JDRF Key Opinion Leaders Meeting on Stem Cell Derived Beta Cells Boston, USA (invited speaker)
2016	EMBO Fellows meeting, Heidelberg, Germany
2016	The American Association for Cancer Research (AACR) annual meeting, New-Orleans, USA

2015	The American Society for Cell Biology (ASCB) annual meeting, San-Diego, USA (invited speaker)
2015	The 65 th Lindau Nobel Laureate Meeting, Lindau, Germany
2014	Memorial Sloan Kettering Cancer Center, New-York, USA (invited speaker)
2014	New Questions, New Answers: NZ Bioethics Conference, Dunedin, New-Zealand
2013	International Society for Stem Cell Research (ISSCR) 11 th annual meeting, Boston, USA
2012	Drug Safety of Stem Cells and other Novel Therapeutics course, Liverpool, United Kingdom (invited speaker)
2012	International Society for Stem Cell Research (ISSCR) 10 th annual meeting, Yokohama, Japan
2011	International Society for Stem Cell Research (ISSCR) 9 th annual meeting, Toronto, Canada

National

2025	Israel Society for Cancer Research (ISCR) Annual Meeting Rehovot, Israel (invited speaker)
2025	Weizmann Institute Cancer Club Lecture Series, Rehovot, Israel (invited speaker)
2025	Department of Biomolecular Science Seminar Series, Weizmann Institute, Rehovot, Israel (invited speaker)
2025	Computational Biology Seminar Series, School of Computer Science, Hebrew University, Jerusalem, Israel (invited speaker)
2024	The Pediatric Oncology Society and Medical Genetics Society Joint Meeting, Tel Aviv, Israel (invited keynote speaker)
2024	Workshop on Genome Aberrations in Cancer (co-chair)
2024	Blood Cancer Workshop, Tel Aviv, Israel (invited speaker; cancelled)
2024	Faculty of Medicine Seminar Series, Technion, Israel (invited speaker)
2024	Faculty of Biology Lecture Series, Technion, Haifa, Israel (invited speaker)
2023	ILANIT/FISEB congress of the Federation of the Israeli Societies for Experimental Biology, Eilat, Israel (invited speaker)
2023	Department of Microbiology, Immunology and Genetics, Ben-Gurion University, Beer-Sheva, Israel (invited speaker)
2022	Faculty of Life Sciences Seminar Series, Bar Ilan University, Israel (invited speaker)
2022	Felsenstein Medical Research Center Seminar Series, Petah Tikva, Israel (invited speaker)
2021	Weizmann Institute Cancer Club Lecture Series, Rehovot, Israel (invited speaker)
2021	Sourasky Medical Center Basic Science Seminar Series, Tel Aviv, Israel (invited speaker)

- 2021 Israel Society for Cancer Research (ISCR) Annual Meeting
(**invited speaker**, online meeting)
- 2021 Department of Clinical Biochemistry & Pharmacology, Ben-Gurion University,
Beer-Sheva, Israel (**invited speaker**; online meeting)
- 2020 From Basic Research to Innovative Therapies, Weizmann Institute, Rehovot,
Israel (cancelled due to COVID-19)
- 2020 ILANIT/FISEB congress of the Federation of the Israeli Societies for
Experimental Biology, Eilat, Israel (**invited speaker**)
- 2019 The Annual Meeting of the Israeli Society of Gene and Cell Therapy, Tel Aviv,
Israel
- 2013 Israeli Society of Gene and Cell Therapy (ISGCT) 8th annual meeting,
Jerusalem, Israel (accepted)
- 2013 Sheba Cancer Research Center seminar, Ramat-Gan, Israel (**invited speaker**)
- 2012 The 1st Graduate Students' Conference in Genetics, Genomics and Evolution,
Beer-Sheva, Israel (accepted)
- 2012 Israeli Society for Cancer Research (ISCR) 4th annual meeting,
Ramat-Gan, Israel
- 2011 Israel Stem Cell Society (ISCS) 4th international meeting,
Tel Aviv, Israel
- 2011 ILANIT/FISEB congress of the Federation of the Israeli Societies for
Experimental Biology, Eilat, Israel
- 2010 Israel Stem Cell Society (ISCS) Young Investigators conference,
Tel Aviv, Israel

Institutional

- 2025 The Annual Retreat of the TAU Safra Center for Bioinformatics, Yearim, Israel
(**invited speaker**)
- 2023 The TAU Cancer Biology Research Center (CBRC) biennial meeting,
Galilee, Israel (**invited speaker**)
- 2023 Non-Mendelian Inheritance and Stress Responses Symposium
Tel Aviv, Israel (**invited speaker**)
- 2022 Cancer Biology Research Center (CBRC) seminar
(**invited speaker**, online meeting)
- 2020 1st conference for collaborative research between Safra Center for Bioinformatics
and TAU-affiliated hospital-based MDs, Tel Aviv, Israel
(**invited speaker**, online meeting)
- 2020 The Annual Retreat of the TAU Safra Center for Bioinformatics, Maagan, Israel
(**invited speaker**; online meeting)
- 2018 The 14th Annual Broad Institute Retreat, Boston, USA (**invited speaker**)
- 2018 The Broad Institute Board of Scientific Counselors Annual Meeting,
Boston, USA (**invited speaker**)
- 2018 The Broad Institute Trainee Retreat, Boston, USA

2012 Alexander Silberman Institute for the Life Sciences (AS-ILS) annual meeting, Ma'agan, Israel

POSTER PRESENTATIONS

2018 Dana-Farber/Harvard Cancer Center Cancer Genetics Symposium, Boston, USA
2018 The American Association for Cancer Research (AACR) annual meeting, Chicago, USA
2017 The 13th annual Broad Retreat, Boston, USA
2017 The 5th annual Broad-ISF Cell Circuits Symposium, Jerusalem, Israel
2017 The HFSP Fellows Meeting, Lisbon, Portugal
2017 The Klarman Cell Observatory Retreat, Boston, USA
2016 The 12th annual Broad Retreat, Boston, USA
2016 The 4th annual Broad-ISF Cell Circuits Symposium, Boston, USA
2015 Howard Hughes Medical Institute (HHMI) Science Meeting, Janelia, USA
2014 Israeli Society for Cancer Research (ISCR) 6th annual meeting, Haifa, Israel
2013 First Israel-China workshop on Genetics and Epigenetics of Human Disease, Jerusalem, Israel
2013 Israel Stem Cell Society (ISCS) 5th international meeting, Jerusalem, Israel
2013 Stem Cells and Regenerative Medicine conference, Jerusalem, Israel
2013 International Society for Stem Cell Research (ISSCR) 11th annual meeting, Boston, USA
2013 Israeli Society for Cancer Research (ISCR) 5th annual meeting, Beer-Sheva, Israel
2013 Gordon Research Conference on Stem Cells and Cancer, Les Diablerets, Switzerland
2012 Faculty of Natural Sciences Posters Contest, Jerusalem, Israel
2011 Israel Society for Cancer Research (ISCR) 3rd annual meeting, Jerusalem, Israel
2011 Molecular Medicine: Cancer Biology and Therapy conference, Jerusalem, Israel
2011 UK-Israel Regenerative Medicine Conference, Beer-Sheva, Israel

CONFERENCE ORGANIZATION

2026 The EACR Conference on Chromosome Integrity and Chromosomal Catastrophes in Cancer, Berlin, Germany
2025 The EMBO Meeting on Chromosome Segregation and Aneuploidy, Laggo Maggiore, Italy
2025 The International Young Academies Meeting, Berlin, Germany
2024 The Annual Retreat of the Safra Bioinformatics Center at TAU, Ma'agan, Israel
2024 Workshop on Genome Aberrations in Cancer, Rehovot, Israel
2023 The EMBO/CBRC Joint Symposium, Tel Aviv, Israel
2023 The EMBO Young Investigators Sectoral Meeting on Cancer, Tel Aviv, Israel

2022 Forbeck Meeting on Aneuploidy in Cancer Development, Prognosis and Treatment, Oleggio Castello, Italy

TRAINEES' AWARDS & ORAL PRESENTATIONS

Yael Cohen-Sharir: 2022 Research Excellence Award, Faculty of Medicine, TAU

Hajime Okada: TAU Excellence Postdoctoral Fellowship; Japanese Society for the Promotion of Science Postdoctoral Fellowship; Uehara Postdoctoral Fellowship; selected oral presentation at the AACR Meeting on Cancer Synthetic Lethalities (Montreal 2024); Djerassi Institute of Oncology travel grant; AACR travel award; Djerassi Institute of Oncology Technology Grant

Michal Getz: MD thesis (Avodat Gmar): Grade 100; selected oral presentation at the annual competition of excellent MD theses (3rd place winner); selected oral presentation at the CBRC Virtual Seminar; Outstanding research project award by the Cancer Biology Research Center (CBRC)

Johanna Zerbib: CBRC travel award; Constantiner travel scholarship; selected oral presentation at the Israeli Society for Cancer Research (ISCR) annual meeting (May 2022); selected flash talks at ILANIT 2023 and CBRC biennial meeting 2023; Pfizer-Wexler PhD Scholarship; Best flash talk award at the CBRC biennial meeting 2023; 2023 PhD Scholarship from the Yoran Institute for Human Genome Research; 2023 Weinstat Memorial Graduate Award in Cancer Research (and selected talk at the award ceremony); 2024 Research Excellence Award (1st Prize), Department of Human Molecular Genetics & Biochemistry, Faculty of Medicine, TAU.

Kavya Prasad: Best poster award (2nd place) at the Safra Bioinformatics Annual Retreat 2020; selected oral presentation at the CBRC Virtual Seminar

Tom Winkler: Djerassi Institute of Oncology travel grant; selected flash talk at ILANIT 2023
Gil Leor: Cancer Biology Research Center travel award; Selected talk at the 2023 'Genomic Stability Interest Group Symposium'; 2024 Rector's Award for Excellence in Teaching.

Linoy Raz: Selected flash talk at ILANIT 2023; Best flash talk award at ILANIT 2023

Tal Ben-Yishay: Best poster award (3rd place) at the Safra Bioinformatics Annual Retreat 2023; selected flash talk at the 'Israeli Bioinformatics Symposium' 2024; CBRC travel award.

Eran Sdeor: Eugenia Gelman Estate for Cancer Research scholarship for outstanding PhD students; CBRC travel award.

Yonatan Eliezer: CBRC travel award; Constantiner travel scholarship

Rachel Slutsky: CBRC travel award; 2024 Weinstat Memorial Graduate Award in Cancer Research (and selected talk at the award ceremony)

Adi Tarrab: Kadar MD-PhD Fellowship for outstanding MD-PhD students

PUBLIC OUTREACH ACTIVITIES

2025 Lecturer for the "National Biology Olympics" team (highschool children)

2023 Participating (as an interviewee) at the "Sounds like cancer" podcast

2023	Organizer and chair of a webinar at the EMBO eTalk Webinar Series
2023	Instructing two high school students, Alpha program for outstanding students
2021	Lecturer at the Front Line Genomics Webinar on Cancer Genomics
2021	Lecturer at the ICRF “Brilliant Minds” Webinar Series
2020	Lecturer at the World Cancer Day, Tel Aviv, Israel

PUBLICATIONS

Total number of citations: 9,309; H-index: 36; i10-index: 51; (Google Scholar, September 1, 2024)

#Corresponding author; *Equally-contributing first-author; Ben-David lab members

ORIGINAL RESEARCH ARTICLES

2025

1. Stana R., Ben-David U., Weissman D.B., Ram Y. Evolutionary rescue by aneuploidy in tumors exposed to anti-cancer drugs. **Genetics**, 2025 (accepted). **IF=4.4**. <https://doi.org/10.32942/X26K8C> (EcoEvoRxiv).
2. Rendo V. *, Schubert M. *, Khuu N., Suarez Peredo Rodriguez M.F., Huang K., Swift M., He Y., Zerbib J., Smith R., Raaijmakers J., Chowdhury D., Medema R., Colome-Tatche M., Ben-David U. #, Beroukhim R. #, Fojier F #. A compendium of Amplification-Related Gain of Sensitivity (ARGOS) genes in human cancer. **Nature Communications**, 2025, <https://doi.org/10.1038/s41467-025-56301-2>, **IF=14.7**.
3. Zheng S. *, Raz L. *, Zhou L. *, Cohen-Sharir Y., Tian R., Ippolito M.R., Gianotti S., Wardenaar R., Broekhuis M., Rodrigue M.S.P., Wobben S., van den Brink A., Bakker P., Santaguida S., Fojier F.#, and Ben David U. # High CDC20 levels increase sensitivity of cancer cells to MPS1 inhibitors. **EMBO Rep**, 2025, doi:10.1038/s44319-024-00363-8, **IF=8.8**.
4. Haj M., Frey Y., Levon A., Maliah A., Ben-Yishay T., Slutsky R., Smoom R., Tzfaty Y., Ben-David U., Levy C., Elkon R., Ziv Y., and Shiloh Y. The cGAS-STING, p38 MAPK and p53 Pathways Link Genome Instability to Accelerated Cellular Senescence in Atm-Deficient Lung Fibroblasts. **PNAS**, 2025, doi:10.1073/pnas.2419196122 (online ahead of print), **IF=9.4**.

2024

5. Israeli Dangoor S., Khoury R., Salomon K., Shahar S., Frommer N., Yeini E., Miari A., Leichtmann-Bardoogo Y., Balint Lahat N., Winkler T., Laue K., Ben-David U., Barshack I., Maoz B.N., and Satchi-Fainaro R. CCL2 blockade combined with PD-1/P-selectin immunomodulators impedes breast cancer brain metastasis. **Brain**, 2024, doi:10.1093/brain/awae347 (ONLINE AHEAD OF PRINT) . **IF=10.6**.
6. Zerbib J. *, Ippolito M. R.*, Eliezer Y., Reuveni E., Viganò S., De Feudis G., Savir Kadmon A., Martin S., Leor G., Berstler J., Laue K., Cohen-Sharir Y., Scorzoni S., Vazquez F., Ben-David U. #, and Santaguida S. #. Human aneuploid cells depend on the RAF/MEK/ERK pathway for overcoming increased DNA damage. **Nature Communications**, 2024, 15(1):7772, doi:10.1038/s41467-024-52176-x. **IF=14.7**.
7. Ippolito M. R.*, Zerbib J. *, Reuveni E., De Feudis G., Eliezer Y., Savir Kadmon A., Martin S., Vigen S., Leor G., Berstler J., Laue K., Cohen-Sharir Y., Scorzoni S., Vazquez F., Santaguida S. #, and Ben-David U. #. Increased RNA and protein degradation is required for counteracting transcriptional burden and proteotoxic stress in human aneuploid cells. **Cancer Discovery**, 2024, 14(12):2532-2553, doi: 10.1158/2159-8290.CD-23-0309. **IF=39.4**.

Highlighted in a Commentary in *Cancer Discovery* (doi: 10.1158/2159-8290.CD-24-1350)

A news article in *Drug Discovery News* (<https://www.drugdiscoverynews.com/targeting-aneuploidy-to-treat-cancer-16262>)

8. Martin S., Vaite L.P., Mazzagatti A., Scorzoni S., Bezoussenko G.V., Gunn A.L., Eliezer Y., Leor G., Ben-Yishay T., Loffreda A., Bedin F., Di Bona M., Garrè M., Vasapolli P., Parazzoli D., Mironov A.A., Cuomo A., Bakhoun S.F., **Ben-David U.**, Hatch E.M., Ly P., Harper J.W., and Santaguida S. A p62-dependent rheostat dictates micronuclei catastrophe and chromosome rearrangements. *Science*, 2024, 385(6712):eadj7446, doi:10.1126/science.adj7447. **IF=47.7.**

Highlighted on the Cover of the journal

9. Nair N.U. *, Schäffer A.A. *, Gertz E.M. *, Cheng K., Zerbib J., Sahu A.D., Leor G., Shulman E. D., Aldape, K.D., **Ben David U.**, and Rupp E. Chromosome 7 gain compensates for chromosome 10 loss in glioma. *Cancer Research*, 2024, 84(20):3464-3477, doi: 10.1158/0008-5472.CAN-24-1366 . **IF=11.2.**
10. Stavish D., Price C.J., Gelezauskaite G., Leonhard K.A. Taapken S.M., McIntire E.M., Laing O., James B.M., Riley J.J., Zerbib J., Baker D., Harding A.L., Jestice L.H., Eleveld T.F., Gillis A.J.M., Hillenius S., Looijenga L.H.J., Gokhale P.J.G., **Ben-David U.**, Ludwig T., and Barbaric I. Feeder-free culture of human pluripotent stem cells drive MDM4-mediated gain of chromosome 1q. *Stem Cell Reports*, 2024, 18:S2213-6711(24), doi: 10.1016/j.stemcr.2024.06.003. **IF=5.9.**
11. Jubran J. *, Slutsky R. *, Rozenblum N., Rokach L., **Ben-David U.** #, and Yeger-Lotem E. #. Machine-learning analysis reveals an important role for negative selection in shaping cancer aneuploidy landscapes. *Genome Biology*, 2024, 25(1):95, doi: 10.1186/s13059-024-03225-7. **IF=12.3.**
12. Lakshmi R.B., Nayak P., Raz L., Sarkar A., Saroha A., Kumari P., Nair V.M., Pauly D.K., Sajana S., Sanush, M.G., Agasti S.S., Paul R., **Ben-David U.**, Manna T.K. CKAP5 regulates microtubule-chromosome attachment fidelity by stabilizing CENP-E at kinetochores. *EMBO Reports*, 2024, doi: 10.1038/s44319-024-00106-9. **IF=8.8.**

2023

13. Sacconi A. *, Muti P. *, Pulito C., Pellini R., Strano S., **Ben-David U.**, Bossi P. # and Blandino G. #. Immunosignatures associated with TP53 status and co-mutations classify prognostically head and neck cancer patients. *Molecular Cancer*, 2023, 22(1):192, doi: 10.1186/s12943-023-01905-9. **IF=37.3.**
14. de la Vega A.A., Temiz N.A., Tasakis R., Somogyi K., Reuveni E., **Ben-David U.**, Stenzinger A., Poth, T., Papavasiliou N., Harris R.S., and Sotillo R. Acute Expression of human APOBEC3CB in mice causes lethality associated with RNA editing. *Genome Biology*, 2023, 24(1):267, doi: 10.1186/s13059-023-03115-4. **IF=18.0.**
15. Chang T., Cao Y., Shulman E.D., **Ben-David U.**, Schäffer A.A., and Rupp E. Optimizing cancer immunotherapy response prediction by tumor aneuploidy score and fraction of copy number alterations. *Npj Precision Oncology*, 2023, 7(1):54. doi: 10.1038/s41698-023-00408-6. **IF=10.1**

16. Stossel C., Raites-Gurevich M., Atias D., Beller T., Gorman-Glick Y., Halperin S., Peer E., Denroche R.E., Zhang A., Notta F., Wilson J.M., O'Kane G., Haimov Talmoud E., Amison N., Schvimer M., Salpether S., Bar V., Tirosh I., Tal R., Dinstag G., Eliezer Y., **Ben-David U.**, Straussman R., Gavert N., Gallinger S., Berger R., Golan T. Spectrum of response to platinum and PARP inhibitors in germline BRCA-associated pancreatic cancer in the clinical and preclinical setting. *Cancer Discovery*, 2023, 13(8)1826-1843, doi: 10.1158/2159-8290.CD-22-0412. **IF=39.4.**
17. Altea-Manzano P., Doglioni G., Liu Y., Cuadros A.M., Nolan E., Fernandez-Garcia J., Wu Q., Montagne A., Planque M., Laue K.J., Cidre-Aranaz F., Liu X., Marin-Bejar O., Van Elsen J., Vermeire I., Broekaert D., Demeyer S., Spotbeen X., Alkan H.F., Demicco M., Rabas N., Riera-Domingo C., Richard F., Geukens T., Maxim De Schepper¹⁴, Sophia Leduc⁵, Sigrid Hatse⁵, Yentl Lambrechts⁵, Emily Jane Kay¹⁵, Sergio Lilla¹⁵, Alekseenko A., Geldhof V., Boeckx B., de la Calle Arregui C., Floris G., Swinnen J., Marine J.C., Lambrechts D., Pelechano V., Mazzone M., Zanivan S., Cools J., Wildiers H., Baud V., Grünewald T.G.P., **Ben-David U.**, Desmedt C., Malanchi I., Fendt S.-M. A palmitate-rich metastatic niche enables metastasis growth via p65 acetylation resulting in preo-metastatic NF-κB signaling. *Nature Cancer*, 2023, 4(3):344-364, doi: 10.1038/s43018-023-00513-2. **IF=23.2.**
18. Garribba L.*, De Feudis G.*, Martis V., Galli M., Dumont M., Eliezer Y., Wardenaar R., Ippolito M., Iyer D.R., Tijhuis A.E., Spierings D.C.J., Schubert M., Rind N., Foijer F., **Ben-David U.**, Fachinetti D., Doksani Y., and Santaguida S. Short-term molecular consequences of chromosome mis-segregation for genome stability. *Nature Communications*, 2023, 14(1):1353, doi: 10.1038/s41467-023-37095-7. **IF=17.7.**

2022

19. Waissengrin B., Zahavi T., Salmon-Divon M., Goldberg A., Wolf I., Rubinek T. Winkler T., Farkash O., Grinshpun A., Zubkov A., Khatib M., Strulov Shachar S., Keren N., Carmi-Levy I., **Ben-David U.**, and Amir Sonnenblick^{1,2*}. The effect of non-oncology drugs on clinical and genomic risk in early luminal breast cancer. *ESMO Open*, 2022, 7(6):100648, doi: 10.1016/j.esmoop.2022.100648. **IF=5.3.**
20. Nahmad A.D.*, Reuveni E.*, Goldschmidt E.*, Tenne T., Liberman M., Horovitz-Fried M., Khosravi R., Kobo H., Reinstein E., Madi. A. #, **Ben-David U.** #, and Barzel A. # Frequent aneuploidy in primary human T cells following CRISPR-Cas9 cleavage. *Nat Biotechnol*, 2022, 40(12):1807-1813, doi: 10.1038/s41587-022-01377-0. **IF=54.9.**

Highlighted in news stories in the popular press (Haaretz, Jerusalem Post, ScienceDaily, and more)

21. Hoge A.C.H.*, Getz M.*, Beroukheim R., Golub T.R., Ha G.# and **Ben-David U.**# DNA-based copy number analysis confirms genomic evolution of PDX models. *npj Precision Oncology*, 2022, 6(1):30. **IF=10.1**
22. Prasad K., Bloomfield M., Levi H., Keuper K., Bernhard S.V., Baudoin N.C., Leor G., Eliezer Y., Giam M., Wong C.K., Rancati G., Storchova Z., Cimini D., and **Ben-David U.**# Whole-genome duplication shapes the aneuploidy landscape of human cancers. *Cancer Research*, 2022, 82(9):1736-1752., doi:10.1158/0008-5472.CAN-21-2065. **IF=12.7**

2021

23. Ippolito M., Martis V., Hong C., Wardenaar R., Zerbib J., Spierings D.C.J., Ben-David U., Foiijer F., and Santaguida S. Gene copy-number changes and chromosomal instability induced by aneuploidy confer resistance to chemotherapy. *Developmental Cell*, 2021, S1534-5807(21)00562-1, doi: 10.1016/j.devcel.2021.07.006. **IF=10.1**

Mentioned on the Cover of the journal

24. Vaz S., Ferreira F.J., Macedo J.C., Leor G., Ben-David U., Bessa J., and Logarinho E. BMF repression by FoxM1 inhibits anoikis during mitosis and is a biomarker for antimitotic chemotherapy response. *Cell Death & Disease*, 2021, 12(6):542, doi: 10.1038/s41419-021-03822-5. **IF=8.5**.
25. Wang R.W., Vigano S., Ben-David U., Amon A., and Santaguida S. Aneuploid senescent cells activate NF- κ B to promote their immune clearance by NK cells. *EMBO Reports* 2021, 22(8):e52032, doi: 10.15252/embr.202052032. **IF=8.8**.
26. Cohen-Sharir Y., McFarland J., Abdusamad M., Marquis C., Bernhard S.V., Kazachkova M., Tang H., Ippolito M.R., Laue K., Zerbib J., Malaby H.L.H., Jones H., Stautmeister L.-M., Bockaj I., Wardenaar R., Lyons N., Nagaraja A., Bass A.J., Spierings D.C.J., Foiijer F., Beroukhim R., Santaguida S., Golub T.R., Stumpff J., Storchova Z., and Ben-David U.[#] Aneuploidy renders cancer cells vulnerable to mitotic checkpoint inhibition. *Nature* 2021, 590(7846):486-491, doi: 10.1038/s41586-020-03114-6. **IF=50.0**

"Research Highlight" in *Cancer Discovery* (doi: 0.1158/2159-8290.CD-RW2021-017)

"News & Views" comment in *Nature Communications* (doi: 10.1038/s41467-021-23965-5)

A provisional patent application was submitted based on this work.

Highlighted in news stories in the popular press (**New York Post**, **Ynet**, **GEN**, **Doctors Only**, and more)

"Best Publication Award" of the Faculty of Medicine at TAU for the year 2021

Inspired clinical trials conducted in the U.S.A. by Amgen and Volastra

2020

27. Replogle J., Zhou W., Amaro A., McFarland J., Villalobos-Ortiz M., Ryan J., Letai, A., Yilmaz O., Sheltzer J., Lippard S., Ben-David U., and Amon A. Aneuploidy increases resistance to chemotherapeutics by antagonizing cell division. *Proc Natl Acad Sci U S A*, 2020, 117(48):30566-30576, doi.org/10.1073/pnas.2009506117. **IF=11.2**.
28. Winkler T. and Ben-David U.[#] Elevated ACE2 expression levels in tumor-adjacent tissues of cancer patients. *International Journal of Cancer*, 2020, 147(11):3264-3266, doi.org/10.1002/ijc.33145. **IF=7.4**

Selected for a special issue for the 2021 World Cancer Day

29. Enache O.M.*, Rendo V.*, Abdusamad M., Lam D., Davison D., Pal S., Currimjee N., Hess J., Sanson K., Pantel S., Nag A., Thorner A., Root D., Doench J.G., Vazquez F., Beroukhim R., Golub T.R., and Ben-David U.[#] Cas9 activates the p53 pathway and selects for p53-inactivating mutations. *Nature Genetics*, 2020, 52(7):662-668, doi: 10.1038/s41588-020-0623-4. **IF=38.3**

The cover of the journal was dedicated to this article
 # “Research Highlight” in **Cancer Discovery** (doi: 10.1158/2159-8290.CD-RW2020-081)
 # Invited paper presentation in **JRNlclub** (<https://jrnclub.org/>)
 # A provisional patent application was submitted based on this work

30. Corsello S.M., Nagari R.T., Spangler R.D., Rossen J., Kocak M., Bryan J.G., Humeidi R., Peck D., Wu X., Tang A.A., Wang V.M., Bender S.A., Lemire E., Narayan R., Montgomery P., **Ben-David U.**, Chen Y., Rees M.G., Lyons N.J., McFarland J.M., Wong B.T., Wang L., Dumont N., O’Hearn P.J., Stefan E., Doench J.G., Greulich H., Meyerson M., Vazquez F., Subramanian A., Roth J.A., Bittker J.A., Boehm J.S., Mader C.C., Tsherniak A., and Golub T.R. Discovering the anticancer potential of non-oncology drugs by systematic viability profiling. *Nature Cancer*, 2020, 1(2):235-248, doi: 10.1038/s43018-019-0018-6. **IF=23.2**

2018

31. **Ben-David U.**, Siranosian B., Ha G., Tang H., Oren Y., Hinohara K., Strathdee c.A., Dempster J., Lyons N.J., Burns R., Nag A., Kugener G., Cimini B., Tsvetkov P., Maruvka Y.E., O’Rourke R., Garrity A., Tubelli A.A., Bandopadhyay P., Tsherniak A., Vazquez F., Wong B., Birger C., Ghandi M., Thorner A.R., Bittker J.A., Meyerson M., Getz G., Beroukhim R. and Golub T.R. Genetic and transcriptional evolution alters cancer cell line drug response. *Nature*, 2018, 560(7718):325-330, doi: 10.1038/s41586-018-0409-3. **IF=50.0**

The cover of the journal was dedicated to this article
 # Highlighted in a Broad Press Release and Video
 # Highlighted in a “News and Views” article in *Disease Models & Mechanisms* (doi: 10.1242/dmm.037366)
 # Highlighted in news stories in the popular press (STAT+, Haaretz, and more)

32. Abdeen S.A., **Ben-David U.**, Maly B. and Aqueilan R. Somatic loss of WWOX drives triple-negative breast cancer through perturbation of TP53. *Cell Death & Disease*, 2018, 9(8):832, doi: 10.1038/s41419-018-0896-z. **IF =8.5**

2017

33. **Ben-David U.**, Ha G., Tseng Y.Y., Greenwald N.F., Oh C., Shih J., McFarland J.M., Wong B., Boehm J.S., Beroukhim R. and Golub T.R. Patient-derived xenografts undergo mouse-specific tumor evolution. *Nature Genetics*, 2017, 49(11):1567-1575, doi:10.1038/ng.3967. **IF= 38.3**

Highlighted in a “News and Views” article in *Nature Genetics* (doi:10.1038/ng.3983)
 # Highlighted in two news stories in *Nature* (doi:10.1038/nature.2017.22782 and doi: 10.1038/d41586-018-05890-8)
 # Highlighted in a news story in *Cancer Discovery* (doi: 10.1158/2159-8290.CD-NB2017-151)
 # Highlighted in news stories in the popular press (*The Scientist*, *Ars Technica*, and more)
 # “The Research Parasite Award” for outstanding secondary data analysis

2016

34. Bi W.L., Horowitz P., Greenwald N., Abedalthagafi M., Agarwalla P.K., Gibson W.J., Mei Y., Schumacher S.E., **Ben-David U.**, Chevalier A., Carter S.L., Tiao G., Brastianos P.K., Ligon A.H., Ducar M., MacConaill L.E., Laws E.R., Santagata S., Beroukhim R., Dunn IF. Landscape of genomic alterations in pituitary adenomas. *Clinical Cancer Research*, 2016, 23(7):1841-1851, doi: 10.1158/1078-0432.CCR-16-0790. **IF=12.5**

35. Aguirre A., Meyers R., Weir B., Vazquez F., Zhang C.Z., **Ben-David U.**, Cook A., Ha G., Harrington W., Doshi M., Gill S., Xu H., Ali L., Jiang G., Pantel S., Lee Y., Goodale A., Cherniack A., Oh C., Kryukov G., Cowley G., Garraway L., Stegmaier K., Roberts C., Golub T.R., Meyerson M., Root D., Tsherniak A., and Hahn W. Genomic copy number dictates a gene-independent cell response to CRISPR-Cas9 targeting. *Cancer Discovery*, 2016, 6(8):914-29, doi: 10.1158/2159-8290.CD-16-0154. **IF=39.4**
36. **Ben-David U.**, Ha G., Khadka P., Jin X., Wong B., Franke L. and Golub T.R. The landscape of chromosomal aberrations in breast cancer mouse models reveals driver-specific routes to tumorigenesis. *Nature Communications*, 2016, 7:12160, doi:10.1038/ncomms12160. **IF=14.9**
37. Lamm N., **Ben-David U.**, Kerem B. and Benvenisty N. Genomic instability in human pluripotent stem cells arises from replicative stress and chromosome condensation defects. *Cell Stem Cell*, 2016, 18(2): 253-61, doi: 10.1016/j.stem.2015.11.003. **IF=24.6**

2015

38. **Ben-David U.**, Cowell Ian G., Austin Caroline C. and Benvenisty N. Controlling the survival of human pluripotent stem cells by small molecule-based targeting of topoisomerase II alpha. *Stem Cells*, 2015, 33(3): 1013-9, doi: 10.1002/stem.1888. **IF=6.3**

Highlighted in the journal's website

2014

39. Weissbein U., **Ben-David U.** and Benvenisty N. Virtual karyotyping reveals greater chromosomal stability in neural cells derived by transdifferentiation than those from stem cells. *Cell Stem Cell*, 2014, 15(6):687-91, doi: 10.1016/j.stem.2014.10.018. **IF=24.6**
40. **Ben-David U.**, Arad G., Weissbein U., Mandefro B., Maimon A., Narwani K., Clark A.T., Andrews P.W., Benvenisty N., and Biancotti J.C. Aneuploidy induces profound changes in gene expression, proliferation and tumorigenicity of human pluripotent stem cells. *Nature Communications*, 2014, 5:4825, doi: 10.1038/ncomms5825. **IF=14.9**
41. **Ben-David U.***, Biran A.*, Scaffidi P., Boehringer M., Meshorer E. and Benvenisty N. Elimination of undifferentiated cancer cells by pluripotent stem cell inhibitors. *Journal of Molecular Cell Biology*, 2014, 6(3):267-9, doi: 10.1093/jmcb/mju012. **IF=6.2**
42. **Ben-David U.** and Benvenisty N. Chemical ablation of tumor-initiating human pluripotent stem cells. *Nature Protocols*, 2014, 9(3):729-40, doi: 10.1038/nprot.2014.050. **IF=13.5**

2013

43. **Ben-David U.**, Nudel N. and Benvenisty N. Immunologic and chemical targeting of the tight-junction protein Claudin-6 eliminates tumorigenic human pluripotent stem cells. *Nature Communications*, 2013, 4:1992, doi:10.1038/ncomms2992. **IF=14.9**

Highlighted in the journal's website and press release

Highlighted in "Scientific American", "A Week in Science" and "Lab Times" magazines

"Article of the month" award, Life Sciences Institute, Hebrew University

44. **Ben-David U.**, Gan Q.F., Golan-Lev T., Arora P., Yanuka O., Oren Y.S., Leikin-Frenkel A., Graf M., Garippa R., Boehringer M., Gromo G. and Benvenisty N. Selective elimination of human pluripotent stem cells by an oleate synthesis inhibitor discovered in a high-throughput screen. *Cell Stem Cell*, 2013, 12(2):167-79, doi: 10.1016/j.stem.2012.11.015. **IF=24.6**

"Research Highlight" in *Nature Chemical Biology*, 2013, 9(3): 139

"Research Highlight" in *Nature/SciBX*, 2013, 6(5): doi:10.1038/scibx.2013.126

"Article of the month" award, Life Sciences Institute, Hebrew University

US granted patent 9,456,998, of May 22, 2013, SELECTIVE INHIBITORS OF UNDIFFERENTIATED CELLS

45. Lee P., Martin N.T., Nakamura K., Azghadi S., Amiri M., **Ben-David U.**, Perlman S., Gatti R.A., Hu H. and Lowry W.E. SMRT compounds abrogate cellular phenotypes of Ataxia Telangiectasia in neural derivatives of patient specific hiPSCs. *Nature Communications*, 2013, 4:1824, doi:10.1038/ncomms2824. **IF=14.9**

46. **Ben-David U.**, Mayshar Y. and Benvenisty N. Virtual karyotyping of pluripotent stem cells on the basis of their global gene expression profiles. *Nature Protocols*, 2013, 8(5): 989-97, doi: 10.1038/nprot.2013.051. **IF=13.5**

Highlighted in the journal's website

2012

47. **Ben-David U.** and Benvenisty N. High prevalence of evolutionarily conserved and species-specific genomic aberrations in mouse pluripotent stem cells. *Stem Cells*, 2012, 30(4):612-22, doi: 10.1002/stem.1057. **IF=6.3**

Highlighted on the cover of the journal and in its website

"Article of the month" award, Life Sciences Institute, Hebrew University

2011

48. **Ben-David U.**, Mayshar Y. and Benvenisty N. Large-scale analysis reveals acquisition of lineage-specific chromosomal aberrations in human adult stem cells. *Cell Stem Cell*, 2011, 9(2):97-102, doi: 10.1016/j.stem.2011.06.013. **IF=24.6**

Highlighted in the Editorial and in a Perspective article published in the same issue

"Article of the month" award, Life Sciences Institute, Hebrew University

2010

49. Mayshar Y.*, **Ben-David U.***, Lavon N., Biancotti J.C., Yakir B., Clark A.T., Plath K., Lowry W.E. and Benvenisty N. Identification and classification of chromosomal aberrations in human induced pluripotent stem cells. *Cell Stem Cell*, 2010, 7(4):521-31, doi: 10.1016/j.stem.2010.07.017. **IF=24.6**

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