

## Moran Yassour - Curriculum Vitae

Name: Moran Yassour

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### Education & Appointments:

- 2019- Assistant professor at the School of Computer Science and Engineering, Hebrew University of Jerusalem.
- 2018- Assistant professor at the Microbiology & Molecular Genetics department, Hebrew University Faculty of Medicine.
- 2012-2018 Postdoctoral fellow at the Broad Institute of MIT and Harvard University (jointly advised by Eric Lander and Ramnik Xavier).
- 2008-2012 Graduate student at the Broad Institute of MIT and Harvard University; Visiting student at MIT.
- 2008-2012 PhD in computer science and computational biology, The Hebrew University of Jerusalem, Israel (jointly advised by Nir Friedman and Aviv Regev).
- 2005-2007 MSc in computer science and computational biology (*magna cum laude*), The Hebrew University of Jerusalem, Israel (advised by Nir Friedman).
- 2002-2005 BSc in computer science and computational biology (*magna cum laude*), The Hebrew University of Jerusalem, Israel.

### Grants, Honors & Awards:

- 2019 Israeli Science Foundation – Broad Institute collaborative grant
- 2018 Azrieli Faculty Fellowship
- 2018 Israeli Science Foundation grant
- 2017 K99/R00 Pathway to Independence award (NIH/NIDDK)
- 2016 Charles A. King Trust Foundation postdoctoral fellowship
- 2013 The Klarman Family and Israeli Science Foundation Postdoctoral Fellowship
- 2012 Dan David Scholarship
- 2012 Rothschild Postdoctoral Fellowship
- 2011 Lawrence H. Summers Fellowship
- 2010 Google European Doctoral Fellowship (declined)
- 2010 Clore Doctoral Scholarship
- 2009 Google Anita Borg Memorial Scholarship recipients
- 2008 The Canadian Friends of the Hebrew University Fellowship
- 2008 Google Anita Borg Memorial Scholarship finalist
- 2005, 2006 Rudin prize of excellence
- 2003 Stein scholarship of excellence
- 2002 The Hebrew University dean's list of excellence

### Selected Peer-Reviewed Publications:

Citations are indicated using both Google Scholar (GS) and the Institute for Scientific Information (ISI), and were updated on Dec 2017.

Mitchell CM, Hogstrom L, Bryant AM, Bergerat A, Cher A, Pochan S, Herman P, Carrigan M, Sharp K, Huttenhower C, Lander ES, Vlamakis V, Xavier RJ, **Yassour M. Delivery mode impacts newborn gut colonization efficiency.** Submitted, 2019

Vatanen T, Plichta DR, Somani J, Münch PC, Arthur TD, Hall AB, Rudolf S, Oakeley EJ, Ke X, Young RA, Haiser HJ, Kolde R, **Yassour M**, Luopajarvi K, Siljander H, Virtanen SM, Ilonen J, Uibo R,

Tillmann V, Mokurov S, Dorshakova N, Porter JA, McHardy AC, Lähdesmäki H, Vlamakis H, Huttenhower C, Knip M, Xavier RJ. **Genomic variation and strain-specific functional adaptation in the human gut microbiome during early life.** *Nature Microbiology*, 2019.

Yassour M.\*, Hogstrom L.\* , Jason E.\* , ..., Knip M., Xavier R. J. **Strain-level analysis of mother-to-child bacterial transmission during the first few months of life.** *Cell Host & Microbe*, 2018. (Journal Cover)

Hall A. B.\* , Yassour M.\*, Sauk J., ..., Vlamakis H., Xavier R. J., Huttenhower C. **A novel *Ruminococcus gnavus* clade enriched in inflammatory bowel disease patients.** *Genome Medicine*, 2017.

Yassour M., Vatanen M., Siljander H., ..., Xavier R.J. **Natural history of the infant gut microbiome and impact of antibiotic treatments on strain-level diversity and stability.** *Science Translational Medicine*, 2016 (GS:94 ISI:65). (Journal Cover)

Vatanen T.\* , Kostic A.D.\* , d’Hennezel E.\* , Siljander H., Franzosa, E.A., Yassour M., ..., Xavier R.J. **Variation in Microbiome LPS Immunogenicity Contributes to Autoimmunity in Humans.** *Cell*, 2016 (GS:148 ISI:85).

Yassour M.,..., Huttenhower C. **Sub-clinical detection of gut microbial biomarkers of obesity and type 2 diabetes.** *Genome Medicine*, 2016 (GS:25 ISI:16).

Gevers G., ..., Yassour M., ..., Xavier R.J. **The Treatment-Naive Microbiome in New-Onset Crohn’s Disease.** *Cell Host & Microbe*, 2014 (ISI:795 GS:512).

Haas B.J.\* , Papanicolaou A.\* , Yassour M., ..., Friedman N. and Regev A. **De novo transcript sequence reconstruction from RNA-Seq using the Trinity platform for reference generation and analysis.** *Nature Protocols*, 2013 (GS:1,638 ISI:1,175).

Brar G.A, Yassour M., Friedman N., Regev A., Ingolia N.T., Weissman J.S. **High-Resolution View of the Yeast Meiotic Program Revealed by Ribosome Profiling.** *Science*, 2011 (GS:280 ISI:201).

Grabherr M.\* , Haas B.J.\* , Yassour M.\*, ..., Friedman N., Regev A. **Full-length transcriptome assembly from RNA-Seq data without a reference genome.** *Nature Biotechnology*, 2011 (GS:5,286 ISI:4,041). (Journal Cover)

Rhind N., Chen Z., Yassour M.\*, Thompson D.A.\* , Haas B.J.\* , Habib N.\* , Wapinski I.\* , Roy S.\* , ... , Nusbaum C. **Comparative Functional Genomics of the Fission Yeasts.** *Science*, 2011 (GS:294 ISI:220). (Journal Cover)

Yassour M., ..., Friedman N., Regev A. **Strand-specific RNA sequencing reveals extensive regulated long antisense transcripts that are conserved across yeast species.** *Genome Biology*, 2010 (GS:111 ISI:76).

Levin J.Z.\* , Yassour M.\*, ..., and Regev A. **Comprehensive comparative analysis of strand-specific RNA sequencing methods.** *Nature Methods*, 2010 (GS:536 ISI:330).

Yassour M.\*, Kaplan T\*., ..., Friedman N., and Regev A. **Ab initio Construction of a Eukaryotic Transcriptome by Massively Parallel mRNA Sequencing.** *Proceedings of the National Academy of Sciences (PNAS)*, 2009 (GS:194 ISI:130).

#### Invited Talks:

- University of Minnesota Biotechnology Institute Seminar
- Stanford Center for Computational, Evolutionary and Human Genomics Seminar

- University of Chicago Department of Human Genetics Seminar
- Massachusetts General Hospital, department of Ob/Gyn, Vincent Center for Reproductive Biology

Teaching:

- Teaching assistant in Computational Methods in Molecular Biology 2006-2008

Reviewing:

- Journal review: eLife, Cell Host & Microbe, Nature Medicine, Nature Methods, Gut, Microbiome, PLoS Computational Biology, Bioinformatics, BMC Genomics.
- Grant review: European Research Council (ERC)

Professional Experience:

2004 Software developer - Mobileye. Worked on advanced image recognition algorithms supporting camera-based systems for automotive driver assistance.

Military Service:

1999-2000 Israeli Intelligence corps. Design and Implementation of sophisticated technical solutions.

Voluntary Work:

2014-2018 Cambridge regional manager of BioAbroad, an Israeli non-profit organization encouraging Israeli scientists abroad to return to Israel. I co-founded a critical discussion group for Israeli post-docs, and organized multiple social and professional events for Israeli scientist in Boston.

1997-1998 A year of volunteering in the youth movement "Bnei Hamoshavim". I led the cultural and educational activity, while serving as a youth guide in the lower Galilee, and helped the high school students in math studies.