

Curriculum Vitae  
**Igor Ulitsky, PhD**  
Department of Biological Regulation  
Weizmann Institute of Science

### A. Personal details

Date of birth: Aug 26, 1980 (St. Petersburg, Russia)

Citizenship: Israeli

Marital Status: Married, 4 children

Mailing address: Department of Biological Regulation, Weizmann Institute of Science, Rehovot, Israel 7610001

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### B. Education

9/2009–8/2013     **Postdoctoral Fellow**, Whitehead Institute for Biomedical Research, Cambridge MA  
Advisor: Prof. David Bartel

7/2004–7/2009     **Ph.D. (direct track) in Computer Science**, Tel Aviv University,  
(awarded 5/2010)     Advisor: Prof. Ron Shamir.

Thesis: Algorithmic methods for integrating heterogeneous biological data for disease modeling.

2001–2004     **B.Sc. in Computer Science (*Summa Cum Laude*) and Life Sciences (*Summa Cum Laude*)**, Tel Aviv University, combined program with an emphasis on Bioinformatics (double major).

### C. Employment

10/2020–Current     **Associate Professor**, Department of Biological Regulation, Weizmann Institute of Science, Rehovot, Israel

8/2013–9/2020     **Senior Scientist**, Department of Biological Regulation, Weizmann Institute of Science, Rehovot, Israel

### D. Academic administration

2020–     Weizmann Institute Scientific Council Services Committee, Member  
2020–     Head, Steering Committee of the Weizmann Institute Early Childhood Center  
2014–2016     Organizer of the departmental student seminars  
2015     Organizer of the departmental retreat  
2015–2016     Steering Committee, Amos De Shalit summer camps for high school students  
2019–     Member, Weizmann Institute Genomics Users Committee  
2020–     Head, Weizmann Institute Early Childhood Education Center Oversight Committee

### E. Other appointments

#### Teaching activities

##### International schools

4<sup>th</sup> international course on the noncoding genome @Institute Curie, Paris, February 2014

EMBO practical course “Non-coding RNAs: From discovery to function”, Brno, July 2015

[@Weizmann](#)

RNA World (w/ Prof. Rotem Sorek and Prof. Eran Hornstein)

2014/15,2015/16,2016/17,2017/18, 2018/19, 2019/20

Systems Biology 101 (w/ other lecturers) 2014/15,2015/16,2017/18

Advanced seminar on Post-transcriptional fate of mRNAs

2013/14,2015/16,2017/18,2019/20

Principles and Practice of Large Scale Data Analysis Using R (w/ Drs. Schraga

Schwarz and Emmanuel Levy) 2016/17,2017/18, 2018/19, 2019/20, 2020/21

Project course in Data Science (w/ four other PIs) 2018/19,2020/21

[@MIT](#)

Advanced undergraduate seminars on Biological networks and Post-

transcriptional fate of mRNAs 2010/2011, 2011/2012, 2012/2013

[Teaching assistant @Tel-Aviv University:](#)

Computational Genomics 2006/2007, 2007/2008, 2008/2009

Analysis of Gene Expression Data, DNA Chips and Gene Networks 2006/2007

[Course instructor @Tel Aviv University:](#)

Tools in Bioinformatics 2006/2007, 2007/2008, 2008/2009

**F. International recognition****Fellowships and Awards**

2020	Blavatnik Award for Young Scientists in Israel in Life Sciences
2020-2025	Recipient of an ERC Consolidator Grant
2020	2020 RNA Society Early-Career Award for outstanding accomplishments by RNA scientists within their first 7 years as an independent investigator
2018	James Heineman Research award
2016	EMBO Young Investigator
2015-2020	Recipient of an ERC Starting Grant
2014-2017	Alon fellowship, Israel Council for Higher Education
2010-2011	EMBO long term postdoctoral fellowship
2009	Legacy Heritage Fund stem cells research fellowship
2008	Wolf prize for outstanding PhD students (a nation-wide prize)
2005-2009	Fellow, Edmond J. Safra Program in bioinformatics, Tel Aviv University
2004-2005	President and Rector's M.Sc. fellowship
2005	Special excellence award, Knesset education committee and university directors committee (a nation-wide prize)
2004	B.Sc. <i>summa cum laude</i>

**Conference organization:**

- **Co-organizer** of EMBO/EMBL conference "The Noncoding Genome", Heidelberg EMBL, October 2021
- **Co-organizer** of EMBO workshop "Noncoding RNAs in embryonic development and cell differentiation", Weizmann Institute, April 2018, 150 participants
- **Co-organizer** of Keystone Meeting on Long Noncoding RNAs, Keystone CO, February 2018, 400 participants
- **Chair of organizing committee**, 19<sup>th</sup> Israeli Bioinformatics Symposium, Weizmann Institute, May 2017, 500 participants

- Co-organizer of EMBO workshop “Systems Biology of Noncoding RNAs”, Weizmann Institute, February 2016, 100 participants

Board member: Israeli Society for Computation Biology (ISCB), 2016– (Weizmann Institute representative)

Editorial board: *Cell Reports*, *Life Science Alliance*

Scientific reviewer for granting agencies: European Research Council (ERC), NSF, Israeli Science Foundation (ISF), US-Israel binational science foundation (BSF), Austrian Science Fund (FWF), French National Research Agency’s (ANR), Israeli Cancer Association, The Wellcome Trust/DBT India Alliance, Cancer Research UK, BBSRC UK, Worldwide Cancer Research, Netherlands Organization for Scientific Research (NOW), Deutsche Forschungsgemeinschaft (DFG), National Science Center Poland, EMBO LTF, Swiss National Science Foundation (SNF)

Conference Program Committee: ISMB 2012, ISMB/ECCB 2013, ISMB 2014, ISMB/ECCB 2015, ISMB 2016, ISMB/ECCB 2017, ISMB 2018

Journal reviewing: *Nature*, *Science*, *Cell*, *Nature Genetics*, *Nature Methods*, *Cancer Cell*, *Cell Stem Cell*, *Developmental Cell*, *Nature Cell Biology*, *Nature Communications*, *Genome Research*, *Molecular Cell*, *Cell Reports*, *PNAS*, *Genome Biology*, *eLife*, *Nucleic Acids Research*, *Nature Structural & Molecular Biology*, *RNA journal*, *PLoS Computational Biology*, *PLoS One*, *Bioinformatics*, *BMC Genomics*, *BMC Bioinformatics*, *BMC Systems Biology*, *Journal of Metabolic Engineering*, *IEEE Transactions on Computational Biology and Bioinformatics*, *Molecular Biology of the Cell*, *Molecular Biology and Evolution*, *Biochimie*, *BBA Gene Regulatory Mechanisms*, *DNA Research*, *Gene*, *Developmental Biology*, *Science Translational Medicine*, *Current Biology*, *Noncoding RNA*, *Trends in Biochemical Sciences*, *Trends in Genetics*, *Life Science Alliance*, *Bioassays*

Reviewing for Conferences: RECOMB (2005, 2006, 2007, 2008), ISMB (2006, 2007, 2008, 2009), ECCB (2006), PSB (2008), RECOMB Satellite on Systems Biology (2008), ECCB (2018)

Examiner or Opponent of Ph.D. / M.Sc. theses: @Feinberg/Weizmann Graduate school, 2013-current; @Other universities (Hebrew University; Ben Gurion University; Technion; Tel Aviv University; Norwegian University of Life Sciences; University of Cyprus; University of Bern; Karolinska Institut; Institut Curie)

## Industry Experience

2019– Consulting services to *Flagship Ventures*, Cambridge MA, USA  
 2012– Consulting services to *Kailos Genetics*, Huntsville AL, USA  
 2009,2011 Consulting services to *NextBio*, Cupertino CA, USA  
 2004–2005 Computational biologist in *Biolog Technologies*, Netanya, Israel

## Invited presentations since appointment to Senior Scientist

1. Keystone symposia on Noncoding RNAs, Palm Springs, USA, May 2021
2. RNA Society Meeting (early career award presentation), Vancouver, Canada, May 2020
3. 9<sup>th</sup> Congress of the Federation of the Israel Societies for Experimental Biology (FISEB/ILANIT), Eilat, Israel, February 2020
4. Seminar, Centre for Genomic Regulation, Barcelona, Spain, June 2020

5. Société Française du Cancer, "Dark genome and cancer" Conference, Paris, France, February 2020
6. Israeli Society for Neuroscience (ISFN) meeting, Eilat, Israel, January 2020
7. Seminar, Chinese Academy of Sciences, Shanghai, China, November 2019
8. 7<sup>th</sup> Canton Nucleic Acids Forum, Guangzhou, China, November 2019
9. EMBL Symposium The Noncoding Genome, Germany, October 2019
10. Seminar, Karolinska Universitat, Stockholm, Sweden, August 2019
11. CSHL 84th Symposium: RNA Control & Regulation, May 2019
12. EMBO workshop Chromatin and Epigenetics, Germany, May 2019
13. Keystone symposia on From Molecular Mechanism to Functional Genetics, Whistler, Canada, February 2019
14. Seminar, FMI, Basel, Switzerland, November 2018
15. RNA Biology Symposium, Singapore, September 2018 (could not attend)
16. Making Connections Systems Biology Symposium, UCL, London, September 2018
17. Seminar at University of Regensburg, July 2018
18. EMBO workshop RNA structure meets function, Stockholm, Sweden, July 2018
19. Seminar at Hebrew University, May 2018
20. Speaker/Organizer, Keystone symposia on Noncoding RNAs: Form, Function, Physiology, Keystone CO, February 2018
21. Seminar, University of Basel Biozentrum, November 2017
22. Invited Seminar, Centre for Cardiovascular Science, University of Edinburgh, October 2017
23. Invited speaker, "2017 RNA biology meeting in memory of Prof. Yossi Sperling", Hebrew University Medical School, September 2017
24. Biochemical Society meeting on "Non-Coding RNA: Recent Insights into the Mechanisms of Action", Edinburgh, UK, June 2017
25. "Microsymposium on Small RNA Biology", Vienna, Austria, May 2017
26. Seminar, Paris Diderot University, France, March 2017
27. Seminar, University of Cyprus, March 2017
28. Seminar, Ecology, Evolution and Behavior, Hebrew University, Israel, March 2017
29. Seminar, Hebrew University Medical School, February 2017
30. Seminar, Goethe-Universität, Frankfurt, Germany, November 2016
31. Computation RNA biology conference, Wellcome Genome Campus, Hinxton, UK, October 2016
32. Seminar, Cancer Research UK, Cambridge, UK, October 2016
33. Villars Symposium on "Non-coding RNAs: from Function to Evolution", Villars, Switzerland, September 2016
34. Seminar, Hebrew University, March 2016
35. Seminar, Ben Gurion University, March 2016
36. Batsheva de Rothschild Seminar on RNA regulatory circuits in infectious diseases and man, Weizmann Institute, December 2015
37. Seminar, EMBL Grenoble, France, July 2015
38. Seminar, Ben Gurion University, Beer Sheva, Israel, May 2015
39. 17<sup>th</sup> meeting of the Israeli Bioinformatics Society, Tel Aviv University, May 2015
40. Seminar, Centre for Genomic Regulation (CRG), Barcelona, Spain, February 2015
41. Seminar, Institut Pasteur, Paris, France, February 2015
42. 14<sup>th</sup> Tokyo RNA club, Tokyo, Japan, November 2014
43. 14<sup>th</sup> Molecular Biology Society of Japan, Workshop on, Yokohama, Japan, November 2014
44. Seminar, Department of Cell Research & Immunology, Tel Aviv University, Israel, November 2014
45. Seminar at the Sheba Medical Center, Tel HaShomer, Israel, October 2014
46. WIS/Karolinska Institute conference, Stockholm, Sweden, June 2014
47. Seminar, Oslo University Hospital research, Oslo, Norway, May 2014
48. Seminar, Hebrew University Medical School, Jerusalem, Israel, May 2014
49. Seminar, BioClub at Hebrew University, Jerusalem, Israel, March 2014

50. 7<sup>th</sup> Congress of the Federation of the Israel Societies for Experimental Biology (FISEB/ILANIT), February 2014
51. The Helmsley Stem Cells Symposium, Weizmann Institute, December 2013
52. Seminar, Bar Ilan University seminar series October 2013

Other presentations (competitively selected abstracts)

1. Selected Abstract, RNA Society meeting, Krakow, Poland, May 2019
2. Selected Abstract, EMBL Noncoding Genome Conference, Heidelberg, Germany, September 2017
3. Selected abstract, 2017 RNA Society meeting, Prague, Czech Republic, May 2017
4. Selected abstract, Keystone meeting on Noncoding RNAs, Banff, Canada, February 2017
5. Selected abstract, EMBL/EMBO Symposium The Noncoding Genome. EMBL Heidelberg, October 2015
6. Selected abstract, EMBO/ESF meeting on Long Regulatory RNAs, Poltusk, Poland, September 2014
7. Selected abstract, Keystone meeting on Long Noncoding RNAs, Santa Fe, March 2014
8. Selected abstract, The Noncoding Genome meeting, EMBL, October 2013

**G. Scientific Productivity****National and International Research Grants**

<b>Year</b>	<b>Duration (years)</b>	<b>Agency</b>	<b>Title</b>	<b>Total amount to the lab</b>
2020-2025	5	European Research Council (ERC) Consolidator Grant	Long noncoding RNAs: Impact on Gene Regulatory Networks	2,000,000€
2019-2022	3	NRF (Singapore)-ISF	Structures and functions of vertebrate long noncoding RNAs	1,020,000 NIS
2019-2024	5	ISF	Identifying sequences driving subcellular localization of long RNAs in mammalian cells	1,650,000 NIS
2018–2020	3	MOST-PRC (France)	Conserved Functions of Rapidly Evolving Long Noncoding RNAs	75,000 NIS
2018–2020	3	ISF-NSFC (China)	Determinants of the post-transcriptional fate of long RNAs in human cells.	900,000 NIS
2019–2021	3	German-Israel foundation for Scientific Research and Development (GIF)	Identifying sequences driving subcellular localization of long RNAs in mammalian cells	88,000€
2018–2020	3	The EU Joint Programme – Neurodegenerative Disease Research (JPND ERA-Net)	Common architecture of local proteome, transcriptome and translome across Motor Neuron disorders	100,000€
2018–2020	3	BIRAX - Britain Israel Research and Academic Exchange Partnership	Control of endothelial cell commitment and specification by long non-coding RNA	200,000£
2016-2019	4	United States-Israel Binational Science Foundation	Global analysis of expression patterns and roles of long noncoding RNAs during differentiation towards pancreatic and hepatic cell fates	\$90,000
2015–2019	5	European Research Council (ERC) Starting Grant	lincSAFARI – Sequence and Function Relationships in Long Intervening Noncoding RNAs	1,500,000€

2015–2018	3	Minerva foundation	Co-transcriptional and post-transcriptional functions of long noncoding RNA genes in endodermal differentiation	150,000€
2014–2019	5	ISF (research grant)	Computational and experimental methods for identification of functional domains in long noncoding RNAs	1,650,000 NIS
2014–2017	3	Fritz Thyssen Stiftung	An Interdisciplinary Approach for Studying the Functions of Long Noncoding RNAs during Neurogenesis and in Neurological Diseases	120,000€
2013–2018	5	ISF (I-CORE)	Chromatin and RNA I-CORE	1,500,000 NIS

### Students and Postdoctoral Fellows

#### **MSc students (7)**

Aviv Rom (2014–2015) – “linc-Chd2 - a conserved long noncoding RNA regulator of Chd2 activity”. Currently – PhD student, Ulitsky lab.

Alexandra Avrutin (2014–2016) – “The regulatory circuitry and the involvement of lincRNA Pvt1 in breast cancer”. Currently – scientific writer at the Davidson Institute of Science Education.

Gali Housman (2014–2016) – “The regulatory roles of short open reading frames in long non-coding RNAs”. Currently – Product Manager at Tabula.

Maya Ron (2016–2018) – “LincRNA Pvt1 and its role in carcinogenesis”. Currently – PhD student, Ulitsky lab.

Liliya Melamed (2017–2019) – “The role of *Chaserr* in the regulation of *CHD2*: A potential treatment for epilepsy”. Currently – Infinity Labs R&D

Micah Goldrich (2018–2020) – “A high-throughput screen for sequences mediating sensitivity to nonsense mediated decay (NMD)”. Currently – PhD student, Ulitsky lab

Noa Nissani (2019–)

#### **PhD students (7)**

Hadas Hezroni (2013–2018) “The roles of Long Noncoding RNAs during neuronal differentiation”. Recipient of the Gad Reshef Memorial Prize from the Fienberg Graduate School for excellent PhD students. Currently – Postdoctoral Fellow, Ulitsky lab.

Neta Degani (2014–2020) “The role of HOXA-AS3 and HOXB-AS3 in endodermal development and differentiation”

Noa Gil (2014–2020) “Long non-coding RNAs as regulators of gene expression in cis”. Currently – Postdoctoral Fellow, Dirk Schubeler lab, FMI Basel

Aviv Rom (2015–2020) “Regulation of CHD2 expression by the Chaserr long noncoding RNA gene is essential for viability”

Binyamin Zuckerman (2016–)

Maya Ron (2018–)

Alan Monziani (2020–)

**Postdoctoral fellows (4)**

Ailone Tichon (2014–2017). Currently Postdoctoral fellow at Storici lab @ Georgia Tech, GA

Filipa Marques (2017–)

Svetlana Farberov (2018–)

Caroline Ross (2019–)

**Senior interns/Visiting scientists/Staff scientists**

Yoav Lubelsky (Senior intern, 2013–2018, Project Scientist 2018–)

Rotem Ben-Tov Perry (Senior intern 2015–2017, Assistant Staff Scientist 2017–)

Miriam Rosenberg (Marie Curie fellow, 2015–2018). Currently visiting scientist at Bar Ilan University.

**Visiting students**

Nate Swetlitz (6–8/2014) – Visiting undergraduate student from Yale University

Katharina Holzer (10–12/2014) – Visiting student from Tübingen Master of Biochemistry program

Florian Deckert (8–10/2016) – Visiting student from master student at Ludwig-Maximilian-University Munich Master of Biology program.

Aleksandra Kornienko (4/2018) – Visiting postdoctoral fellow from GMI, Vienna.

Royi Brezner (6-8/2019) – Visiting Undergraduate student from University of Western Ontario

Melanie Royer (10-12/2019) – Visiting student from Regensburg University, Germany.

National and International Collaborators

Alena Shkumatava, Institut Curie, Paris – Conservation of lncRNA roles in zebrafish.

Marina Chekulaeva, MDC, Berlin – RNA localization in neurites.

Andrew Baker, University of Edinburgh – lncRNAs in differentiation of endothelial stem cells.

Amos Tanay, Weizmann Institute – Methods for mapping spatial contacts between enhancers and promoters.

Yosef Yarden, Weizmann Institute – lncRNAs in cancer

Louise Laurent, UCSD – lncRNA roles during differentiation of pluripotent cells towards pancreatic and hepatic fates.

Karen Avraham, Tel Aviv University – lncRNAs in the physiology of the inner ear.

Lingling Chen, CAS Shanghai – lncRNA localization and nuclear export.

Yue Wan, A-STAR Singapore – High throughput methods for determination of RNA structure.

Jacob Hanna, Weizmann Institute – Gene regulatory networks in embryonic stem cells.

Rivka Dikstein, Weizmann Institute – Transcriptional regulation, and single-nucleotide resolution mapping of transcription start sites.

Yardena Samuels, Weizmann Institute – Gene expression signatures in cancers.

Ayelet Erez, Weizmann Institute – Gene expression landscape in cancer

Shalev Itzkovitz, Weizmann Institute – lncRNA localization

I. Languages



Hebrew: Reading (3), Writing (3), Speaking (3)

English: Reading (3), Writing (3), Speaking (3)

Russian: Reading (2), Writing (1), Speaking (3)