

Curriculum Vitae

Jacob H. Hanna

A. Personal Details

Name: Jacob (Yaqub) Hanna, M.D. Ph.D.
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Place, Date of Birth & Age: Haifa; August 26, 1979; 37 years old

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B. Professional Profiles:

Google Scholar: <https://scholar.google.com/citations?user=Q-jUVCUAAAAJ&hl=en>
ResearcherID: <http://www.researcherid.com/rid/K-1339-2012>
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NCBI: <http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/48611577/?sort=date&direction=descending>

C. Education

- 2007-2011 **Postdoctoral studies**, Whitehead Institute for Biomedical Research - MIT, Cambridge, MA, USA
 Advisor: Prof. Rudolf Jaenisch
 Field of Study: Pluripotency and Epigenetic Reprogramming
- 2001-2007 **Ph.D.**, The Hebrew University of Jerusalem, Jerusalem, Israel
 Advisor: Prof. Ofer Mandelboim
 Field of Study: Immunology
 Thesis Title: Novel Molecular and Functional Properties of Human NK Subsets
 Graduated with distinction (*summa cum laude*).
- 2001-2007 **M.D.**, The Hebrew University of Jerusalem – Hadassah Hospital, Jerusalem, Israel
 Field of Study: Clinical Medicine (including one year of general medical internship)
 Graduated with distinction (**top 5% nationwide**)
- 1998-2001 **B.Med.Sc.**, The Hebrew University of Jerusalem, Jerusalem, Israel
 Field of Study: Biomedical Sciences
 Graduated with distinction (*summa cum laude*).

D. Employment

- 01/10/2018-present **Associate Professor** (with Tenure),
Department of Molecular Genetics, Faculty of Biochemistry,
Weizmann Institute of Science, Rehovot 7610001, Israel.
- 16/3/2011-30/9/2018 **Senior Scientist (AKA Assistant Professor, Principal Investigator)**,
Department of Molecular Genetics, Faculty of Biochemistry,
Weizmann Institute of Science, Rehovot 7610001, Israel.

E. Academic Administration

1. The Department of Molecular Genetics Student Seminar Series, Weizmann Institute of Science, Organizer (2011-2012)
2. The Amos de-Shalit Summer School for Life Sciences, Weizmann Institute of Science, Organizer (2013)
3. Friends of the Weizmann Institute of Science - international fundraising activities: USA (2009, 2013, 2015), Canada (2011, 2014, 2016), Zurich (2013), Australia (2015), London (2016), Belgium (2017), Mexico (2017).
4. Scientific Council, Weizmann Institute of Science, Representative of the Faculty of Biochemistry Senior Scientists (2012, 2016)

F. Other Appointments

1. Journal Editorial Board Member:
 - **Stem Cell Reports**, published by Cell Press (2013-2015)
 - **Stem Cell Reviews and Reports**, published by Springer Link (2014- present)
 - **Genomics, Proteomics and Bioinformatics**, published by Elsevier (2015- present)
 - **Cell Research**, published by Nature Publishing Group (2015- present)
 - **Journal of Stem Cell Research and Medicine**, published by Oat publishing (2016-present)
 - **Journal of Stem Cell Research and Regenerative Medicine**, published by the OMICS publishing group (2016-present)
 - **Stem Cells**, published by AlphaMed press (2016-present)
2. Scientific Advisory Board Member:
 - **Biological Industries**, Beit Haemek, Israel (2016-present)
 - **Accelta Ltd.**, Haifa, Israel (2016-2018)
3. Executive Board Member:
 - **Israel Society for Stem Cell Research (ISCS)**, Israel (2016-present)
4. Member, MAOF Faculty Award Committee for Early Career Faculty Arab Scientists and PhD Students in Israel, Israel (2015-present)

5. Tenure case and promotion confidential evaluator of four candidates – from IMBA (2018), Istanbul University (2018), Lunefeld Research Institute – University of Toronto (2018), the Salk Institute (2017), Singapore University (2016), Harvard University (2015), UCSD (2014) and UCLA (2014)
6. EMBO long-term postdoctoral fellowship evaluator and interviewer (assessed six candidates since 2013)
7. Member, The BIRAX Fellowship exchange program selection committee, British Council and British Embassy (2013-present)
8. Scientific reviewer for granting agencies, including:

*Israel Science Foundation (ISF), US-Israel Bi-national Grant Program (BSF), GIF Program, ERC Starting, Consolidator and Advanced Grant Programs, The UK Biotechnology and Biological Sciences Research Council (BBSRC), Cancer Research UK, Japan-Israel Bi-National Grant Program, Consolider Grant Program from the Spanish Ministry of Industry, NOW- Dutch Division for Life Sciences, Hebrew University-Hadassah Medical School Internal Grants, A*Star Singapore Institutional Grants, Research by Design (RbD) program by the University of Toronto, Regenerative Medicine Program by the State of Minnesota, Academy of Finland, National Research Foundation of Singapore, National Research Foundation of Estonia, Research Grants Council (RGC) of Hong Kong, ETH Zurich internal grants, Human Frontiers Science Program (HFSP), Wellcome Trust*
9. Panel review member for granting agencies:
 - Academy of Finland – Centers of Excellence (CoE) flagship program (2017)
 - Israeli Ministry of Science (MOST) – Israel-China collaborative granting program (2018)
10. Manuscript reviewer for:

Nature, Science, Cell Stem Cell, Cell Metabolism, Cell reports, Molecular Cell, eLife, Genes & Development, Stem Cell Reports, Nature Biotechnology, Nature Cell Biology, Nature Genetics, Nature Materials, Nature Communications, Nature Medicine, Nature Nanoscience, Nature Methods, Nature Molecular and Structural Biology, Nature Protocols, Cell Research, Stem Cells, Stem Cell Research, Stem Cells and Development, Stem Cells International, Stem Cells Reviews and Reports, PLoS Biology, PLoS Computational Biology, PLoS Genetics, PLoS One, EMBO, EMBO reports, Development, PNAS, Scientific Reports, Gene, RNA, Nucleic Acid Research, Blood, OncoTarget, OncoImmunology, Journal of Biological Chemistry (JBC), Genome Research, BMC Developmental Biology, Clinical Microbiology and Infection, Reproductive Biology and Endocrinology, Open Biology, JoVE, Current Medical Chemistry, BMC Cancer, Annals of the New York Academy of Sciences
11. Membership in international organizations:
 - 2007-present: International Society for Stem Cell Research (ISSCR)
 - 2011-present: Israel Society for Stem Cell Research (ISCS)
 - 2011-present: Palestinian Society for Biomedical Research
 - 2011-present: The Israel Society for Developmental Biology (TISDB)
 - 2015-present: The Israel Society for Biochemistry and Molecular Biology (ISBMB)
 - 2015-present: The European Foundation for the Study of Diabetes (EFDS)

12. Teaching experience:

- Stem Cell Biology Course, Guest Lecturer, Feinberg Graduate School, Weizmann Institute (2014/2015)
- Stem Cell Biology Course, Co-organizer and Lecturer, Feinberg Graduate School, Weizmann Institute (2016/2017)

13. Member of 9 Ph.D. student thesis and/or exam committees

14. Member of 6 M.Sc. exam committees

G. International Recognition

Prizes and Awards

2017	Elected as an EMBO member
2017	Research Professorship grant and award, Israel Cancer Research Fund (ICRF)
2017	Consolidator Scientist Award and Grant, European Research Council (ERC-CoG Program)
2016	The Segal Family Award for Excellence in Stem Cell Biology, University of Michigan, USA
2016	Manuscript describing human <i>in vitro</i> germ cell differentiation among the 10 selected " Best of Cell 2015 " publications by Cell journal editors
2014	The Kimmel Prize for outstanding scientist, Weizmann Institute of Science
2014	Selected as a member of the Young Israel Academy
2014	Selected among " 40 under 40 " most innovative young scientists by Cell journal
2014	Selected among " 40 under 40 " most innovative young professionals in Israel by GLOBES-Israel financial newspaper
2013	Robertson Innovator Award , New York Stem Cell Foundation (NYSCF)
2013	Krill Prize for outstanding early career scientists, Wolf Foundation
2013	Rappaport Prize for Promising Young Researcher in the field of Biomedical Research, The Bruce and Ruth Rappaport Foundation
2012	EMBO Young Investigator Award (EMBO-YIP)
2011	Starting Scientist Award and Grant, European Research Council (ERC-StG Program)
2011	Inaugural Award for Excellence in Biomedical Research, Palestinian Society

for Biomedical Research

- 2011-2014 **Alon Foundation Scholar** (program for distinguished junior faculty in Israeli academia)
- 2010 **Clore Prize** for an outstanding new scientist, Weizmann Institute of Science

During M.D.-Ph.D. and Postdoctoral Studies:

- 2010 **TR35 Young Innovator Award**, for leading international innovators under the age of 35, MIT's Technology Review Magazine
- 2009-2010 **Genzyme Postdoctoral Prize** and Fellowship
- 2007-2009 Postdoctoral Fellowship, **Helen Hay Whitney Foundation** – Novartis Fellow
- 2007-2009 Postdoctoral Fellowship, **Human Frontiers Science Program** (HFSP) (declined)
- 2007-2008 Postdoctoral Fellowship, **EMBO** (declined)
- 2007 Hebrew University Medical School Excellence Award for graduating M.D.-Ph.D. students, Hebrew University of Jerusalem
- 2007 **Max Schlomiuk Award** for Ph.D. students graduating with distinction (*summa cum laude*), Hebrew University of Jerusalem
- 2007 Graduated among the top 5 percent of Israeli medical school M.D. graduates
- 2005 **Gertrude Kohn Award** for outstanding scientific work in human genetics, Hebrew University of Jerusalem
- 2005 Member of the official delegation to the 55th International Nobel Prize Laureates Symposium in Lake Constance, Germany
- 2005-2006 Israel Ministry of Education Scholarship for Ph.D. students
- 2004 Fellowship at Mt. Sinai Hospital for distinguished M.D. students, Hebrew University of Jerusalem
- 2004-2006 **Golda Meir Fund** Scholarship for Ph.D. students
- 2004-2006 **Foulkes Foundation Award** and Scholarship for M.D.- Ph.D. students, The Foulkes Foundation
- 2003 **Wolf Foundation** Award for **Ph.D. students**, Wolf Foundation
- 2002 Faculty of Medicine Award for B.Med.Sci. students graduating with distinction (*summa cum laude*), Hebrew University of Jerusalem

1999-2001 Medical School's **Dean's List** Excellence Award (awarded in all 3 years of undergraduate studies), Hebrew University of Jerusalem

Organization of Professional Meetings and Workshops

2019 Co-Organizer and Program Committee Member, The 3rd Aegean Stem Cell Conference, Crete, Greece

2017 Co-Organizer and Program Committee Member, The 2nd Aegean Stem Cell Conference, Rhodes, Greece

2015 Program Committee Member, The 12th Annual Meeting of the International Society for Stem Cell Research (ISSCR), Stockholm, Sweden.

2013 Organizer, The 2nd Helmsley Stem Cell Symposium, Weizmann Institute of Science

2012 Organizer, The 1st Helmsley Stem Cell Symposium, Weizmann Institute of Science

International Meetings during Current Position

Invited Talks at Internationally Established Conferences:

09/2019 The 3rd Aegean Stem Cell Conference, Crete, Greece (*future event*)

11/2018 The 6th Annual meeting of Chinese Society for Regenerative Cell Biology, Guangzhou, China

04/2018 EMBL meeting on Epitranscriptomics, EMBL, Heidelberg, Germany

02/2018 Stem Cell Symposium by the Austrian Society for Stem Cell Research, the IMP and IMBA, Vienna, Austria

10/2017 Mexican Society Stem Cell Research Annual Conference, Queretaro, Mexico (**Keynote speaker**)

09/2017 The 2nd Aegean Stem Cell Conference, Rhodes, Greece

01/2017 Keystone Symposia on Transcriptional and Epigenetic Control in Stem Cells, Squaw Creek, California, USA

11/2016 Conference on Advances in Cell Engineering, Flanders Institute of Biotechnology, University of Leuven, Leuven, Belgium

- 10/2016 Molecular Life of Stem Cells Conference, organized by Helmholtz-Muenchen, Ljubljana, Slovenia (**Keynote speaker**)
- 09/2016 EMBO Workshop on Nuclear Function and Cell Fate Choice, Kyllini, Greece
- 08/2016 The 7th International Symposium on Primate Research, Yunnan, China
- 07/2016 Annual ESHRE Meeting, European Society of Human Reproduction and Embryology, Helsinki, Finland (**Keynote speaker**)
- 06/2016 The 4th Annual Broad-ISF Cell Circuits Symposium, Broad Institute, MIT, Cambridge, USA
- 04/2016 The 3rd BIRAX Stem Cell Conference, Oxford University, Oxford, UK
- 12/2015 The 1st Hong Kong International Conference on Stem Cells and Regenerative Medicine, Hong Kong, China
- 12/2015 The 4th Annual meeting of Chinese Society for Regenerative Cell Biology, Guangzhou, China
- 11/2015 Human Models and Technology for Regenerative Medicine Conference, Karolinska Institute, Sweden
- 11/2015 NIH Workshop on Cross-Species Introduction of Human Stem Cells in Early Embryos, Bethesda, USA
- 11/2015 The 8th Spanish Society for Gene and Cell Therapy Annual Meeting, San Sebastian, Spain (**Keynote speaker**)
- 10/2015 The 2nd International Congress on Stem Cells and Cellular Therapies, Antalya, Turkey
- 10/2015 Stem Cell Biology – Cold Spring Harbor Symposium, NY,
- 08/2015 The 11th Annual Meeting of the Korean Society for Stem Cell Research, Seoul, Korea (**Keynote speaker**)
- 08/2015 Arolla EMBO Workshop on Cell and Developmental Systems, Arolla, Switzerland
- 07/2015 Genomics Frontiers Symposium, Beijing Institute of Genomics - CAS, Beijing, China (**Keynote speaker**)
- 06/2015 Stem Cell Reprogramming Mini-Symposium, University of Helsinki, Helsinki, Finland (**Keynote speaker**)
- 05/2015 The 3rd Cell Reprogramming Australia Conference, Brisbane, Australia (**Keynote speaker**)

- 05/2015 Annual Meeting of the Dutch Stem Cell Society, Utrecht, Holland (**Keynote speaker**)
- 04/2015 Broad Institute - Harvard University - Harvard Stem Cell Institute Symposium on Pluripotency and Reprogramming, Cambridge, USA
- 03/2015 Keystone Symposium on Transcriptional and Epigenetic Influences on Stem Cell States, Steamboat Springs, Colorado, USA
- 02/2015 The 5th Brain Research Institute (BRI) International Symposium: Gene Editing Technology, Nigata, Japan
- 11/2014 Annual Meeting of the Molecular Biology Society of Japan, Yokohama, Japan
- 10/2014 The 5th New York Stem Cell Foundation Meeting on Stem Cell Translation, New York, USA
- 09/2014 The 1st Annual Meeting of the Belgium Stem Cell Society, Ghent, Belgium (**Keynote speaker**)
- 06/2014 The 10th Annual Meeting of the Swiss Stem Cell Network (SSCN), Switzerland
- 05/2014 Pasteur Institute Symposium on Reprogramming, Paris, France
- 04/2014 Cold Spring Harbor Laboratory Meeting on Gene Expression & Signaling in the Immune System, Cold Spring Harbor, New York, USA
- 03/2014 Gordon Conference on Reprogramming Cell Fate, Galveston, Texas, USA
- 02/2014 Keystone Symposium on Transcriptional Regulation, Santa Fe, New Mexico, USA
- 11/2013 Singapore Stem Cell Society Annual Meeting, Singapore (**Keynote speaker**)
- 11/2013 Epigenomics of Common Diseases Conference, The Wellcome Trust, Cambridge, UK
- 10/2013 Till & McCulloch Meeting on Stem Cells, Canadian Stem Cell Network, Banff, Alberta, Canada (**Keynote speaker**)
- 10/2013 Cambridge Epigenetics Club, Cambridge, UK
- 07/2013 International Stem Cell Conference, Hebrew University, Jerusalem, Israel
- 06/2013 International Society for Stem Cell Research (ISSCR) 11th Annual Meeting, Boston, Massachusetts, USA

- 06/2013 American Association for Cancer Research (AACR) Conference - Chromatin and Epigenetics in Cancer, Atlanta, Georgia, USA
- 10/2012 EMBO Meeting on Germ Cells and Immortality, Heidelberg, Germany
- 04/2011 Cold Spring Harbor Symposium on Stem Cell and Therapeutics, Cold Spring Harbor, New York, USA

Invited Seminars and Visits from Institutes Abroad:

- 08/2018 Stem Cell Seminar Series, University of Helsinki, Helsinki, Finland
- 12/2017 Division of Genetics, Craniofacial Center Seminar Series, UCSF, San Francisco, USA
- 12/2017 Department of Cellular Physiology, National Autonomous University of Mexico (UNAM), Mexico City, Mexico
- 12/2017 Life Science Colloquium, CINVESTAV – Polytechnic Institute, Mexico City, Mexico
- 05/2017 University of Pamplona, Pamplona, Spain
- 04/2017 Spanish National Cancer Research Center (CNIO), Madrid, Spain
- 11/2016 Stem Cell Center, University of Minnesota, Minneapolis, USA
- 10/2016 Stem Cell Center, Yale University, New Haven, USA
- 10/2016 State Key Laboratory of Experimental Hematology, CAS, Tianjin, China.
- 01/2016 Center for Regenerative Medicine, University of Edinburgh, Edinburgh, UK
- 12/2015 Department of Biological Sciences Seminar Series, University of Basel, Basel, Switzerland
- 09/2015 Department of Genetics Seminar Series, Columbia University, NYC, USA
- 07/2015 Stem Cell Seminar Series, Peking University, Beijing, China
- 05/2015 Stem Cell Seminar Series, Monash University, Monash, Australia
- 05/2015 Victor Chang Research Institute, Sydney, Australia
- 11/2014 Stem Cell Seminar Series, Kyoto University, Kyoto, Japan
- 01/2014 Broad Institute Seminar Series, MIT, Cambridge, Massachusetts, USA
- 01/2014 Harvard-MGH Cancer Seminar Series, Boston, Massachusetts, USA

- 01/2014 Boston University Regenerative Medicine Seminar Series, Boston, USA
- 12/2013 Life Sciences Seminar Series, EPFL, Lausanne, Switzerland
- 12/2013 Life Sciences Seminar Series, IFOM-IEO, Milan, Italy
- 06/2013 Life Sciences Colloquium, University of Brussels, Brussels, Belgium

H. Patents

1. "Efficient Reprogramming of Non-Engineered Somatic Cells", Ser. No. USSN 60/959,341, filed in 2007 by *Whitehead Institute, Cambridge, USA*
2. "Isolated naïve pluripotent stem cells and methods of generating same", filed on 30.4.13 by Yeda, Weizmann Institute, Israel
3. "Media for culturing pluripotent stem cells", filed on 30.7.14 by Yeda, Weizmann Institute, Israel. **This invention was licensed and commercialized by Stem Cell Technologies Inc. (Vancouver, Canada) as RSeT™, the first defined human naïve pluripotency growth media commercialized (www.stemcell.com/en/Products/All-Products/RSeT.aspx; www.stemcell.com/en/Pages/RSeT.aspx)**

I. Language Proficiency

Scale: 1 (basic) to 3 (fluent)

1. **Arabic:** Reading (3), Writing (3), Speaking (3)
2. **Hebrew:** Reading (3), Writing (3), Speaking (3)
3. **English:** Reading (3), Writing (3), Speaking (3)

List of publications: Jacob H. Hanna

(First or senior author publications are highlighted in **bold**)

Refereed Articles

Graduate studies

1. Markel G, Wolf D, Hanna J, Gazit R, Goldman-Wahl D, Lavi Y, Yagel S, and Mandelboim O. "Pivotal role of CEACAM1 protein in the inhibition of activated decidual lymphocyte functions." ***Journal of Clinical Investigation*** (2002) 110:943-953. [\[URL\]](#)
2. Gonen-Gross T, Achdout H, Gazit R, Hanna J, Mizrahi S, Markel G, Goldman-Wohl D, Yagel S, Horejší V, Levy O, Baniyash M, and Mandelboim O. "Complexes of HLA-G protein on the cell surface are important for the LIR-1 function." ***Journal of Immunology*** (2003) 171:1343-1351. [\[URL\]](#)
3. Beider K, Nagler A, Wald O, Franitza S, Dagan-Berger M, Wald H, Giladi H, Brocke S, Hanna J, Mandelboim O, Darash-Yahana M, Galun E, and Peled A. "Involvement of CXCR4 and IL-2 in the homing and retention of human NK and NK T cells to the bone marrow and spleen of NOD/SCID mice." ***Blood*** (2003) 102:1951-1958. [\[URL\]](#)
4. Gonen-Gross T, Gazit R, Achdout H, Hanna J, Mizrahi S, Markel G, Hořejší V, and Mandelboim O. "Special organization of the HLA-G protein on the cell surface." ***Human Immunology*** (2003) 64:802-810. [\[URL\]](#)
5. **Hanna J, Wald O, Goldman-Wohl D, Prus D, Markel G, Gazit R, Katz G, Yagel S, Peled A, and Mandelboim O. "CXCL12 expression by invasive decidual trophoblasts induces the specific migration of CD16 negative human natural killer cells." *Blood* (2003) 102:1569-1577. {cover caption} [\[URL\]](#)**
6. **Hanna J, Bechtel P, Zhai Y, Youssef F, McLachlan K, and Mandelboim O. "Novel insights on human natural killer cells immunological modalities revealed by gene expression profiling." *Journal of Immunology* (2004) 173:6547-6563. [\[URL\]](#)**
7. Markel G, Mussaffi H, Ling KL, Salio M, Gadola S, Steuer G, Blau H, Achdout H, de Miguel M, Gonen-Gross T, Hanna J, Arnon TI, Qimron U, Volkovich I, Eisenbach L, Blumberg RS, Porgador A, Cerundolo V, and Mandelboim O. "The mechanisms controlling NK cell autoreactivity in TAP2-deficient patients." ***Blood*** (2004) 103:1770-1778. [\[URL\]](#)
8. Gazit R, Garty B, Monselise Y, Hoffer V, Finkelstein Y, Markel G, Katz G, Hanna J, Achdout H, Gruda R, Gonen-Gross T, and Mandelboim O. "Expression of KIR2DL1 on the entire NK cell population: A possible novel immunodeficiency syndrome." ***Blood*** (2004) 103:1965-1966. [\[URL\]](#)

9. Wald O, Pappo O, Safadi R, Dagan-Berger M, Beider K, Wald H, Franitza S, Weiss I, Avniel S, Boaz P, Hanna J, Zamir G, Eid A, Mandelboim O, Spengler U, Galun E, and Peled A. "Involvement of the CXCL12/CXCR4 pathway in the advanced liver disease that is associated with hepatitis C virus or hepatitis B virus." *European Journal of Immunology* (2004) 34:1164-1174. [\[URL\]](#)
10. Markel G, Achdout H, Katz G, Ling KL, Salio M, Gruda R, Gazit R, Mizrahi S, Hanna J, Gonen-Gross T, Arnon TI, Lieberman N, Stren N, Nachmias B, Blumberg RS, Steuer G, Blau H, Cerundolo V, Mussaffi H, and Mandelboim O. "Biological function of the soluble CEACAM1 protein and implications in TAP2-deficient patients." *European Journal of Immunology* (2004) 34:2138-2148. [\[URL\]](#)
11. Arnon TI, Achdout A, Levi O, Markel G, Saleh N, Katz G, Gazit R, Gonen-Gross T, Hanna J, Nahari E, Porgador A, Honigman A, Plachter B, Mevorach D, Wolf DG, and Mandelboim O. "Inhibition of the NKp30 activating receptor by pp65 of human cytomegalovirus." *Nature Immunology* (2005) 7(5):517-523. [\[URL\]](#)
12. Azuz-Lieberman N, Markel G, Mizrahi S, Gazit R, Hanna J, Achdout H, Gruda R, Batat S, Zamir E, Adawi M, Made R, and Mandelboim O. "Natural killer cells and CEACAM1 in Ankylosing Spondylitis." *International Immunology* (2005) Jul;17(7):837-845. [\[URL\]](#)
13. Hanna J, Fitchett J, Rowe T, Daniels M, Heller M, Gonen-Gross T, Manaster E, Cho SY, Labarre MJ, and Mandelboim O. "Proteomic analysis of human natural killer cells: insights on new potential NK immune functions." *Molecular Immunology* (2005) 42:425-431. [\[URL\]](#)
14. Hanna J, Mussaffi H, Steuer G, Hanna S, Deeb M, Blau H, Arnon TI, Weizman N, and Mandelboim O. "Functional aberrant expression of CCR2 receptor on chronically activated NK cells in TAP2-deficient patients." *Blood* (2005) 106(10):3465-3473. [\[URL\]](#)
15. Gazit R, Gruda R, Elboim M, Arnon TI, Katz G, Achdout H, Hanna J, Qimron U, Landau G, Greenbaum E, Zakay-Rones Z, Porgador A, and Mandelboim O. "Lethal influenza infection in the absence of the natural killer receptor gene NCR1." *Nature Immunology* (2006) 6:515-523. [\[URL\]](#)
16. Hanna J, Goldman-Wohl D, Hamani Y, Avraham I, Greenfield C, Nathanson-Yaron S, Prus D, Cohn-Daniel L, Arnon TI, Manaster I, Gazit R, Yutkin V, Benharroch D, Porgador A, Keshet E, Yagel S, and Mandelboim O. "Decidual NK Cells regulate key developmental processes at the human fetal-maternal interface." *Nature Medicine* (2006) 12(9):1065-1074. [\[URL\]](#)
 - Preview: Le Bouteiller P and Tabiasco J. "Killers become helpers during pregnancy." *Nature Medicine* (2006) 12(9):991-992.
 - Preview: Karimi K, Blois SM and Arck PC. "The upside of natural killers." *Nature Medicine* (2008) 14(11):1184-1185.

- Selected as the most influential paper in Reproductive Immunology published between 2005-2008 by *Nature Medicine, Special Focus on Reproductive Immunology*, June 2008.

17. Arnon TI, Markel G, Bar-Ilan A, Hanna J, Fima E, Benchetrit F, Galili R, Cerwenka A, Benharroch D, Sion-Vardy N, Porgador A, and Mandelboim O. "Harnessing soluble NK cell killer receptors for the generation of novel cancer immune therapy." ***PLoS ONE*** (2008) 3(5):e2150. [\[URL\]](#) (Erratum in *PloS ONE* 2015 10(5))

Postdoctoral studies

18. Hanna J, Wernig M, Markoulaki S, Sun CW, Meissner A, Cassady JP, Beard C, Bambrink T, Wu LC, Townes T, and Jaenisch R. "Treatment of sickle cell anemia mouse model with iPS cells generated from autologous skin." ***Science*** (2007) 318:1920-1923. [\[URL\]](#)

- Selected for Faculty of 1000 Biology.
- Preview: Cibelli J. "Is therapeutic cloning dead?" *Science* (2007) 9318(5858):1879-80.
- Editor's Highlights: *Cell* (2008).
- Featured on: *Nature news, Science news, MSNBC, Washington Post, LA Times, BBC, The Guardian, Haaretz.*

19. Hanna J, Markoulaki S, Schorderet P, Carey BW, Beard C, Wernig M, Creighton MP, Steine EJ, Cassady JP, Foreman R, Lengner CJ, Dausman JA, and Jaenisch R. "Direct reprogramming of terminally differentiated mature B lymphocytes to pluripotency." ***Cell*** (2008) 133(2):250-264. [\[URL\]](#)

- Selected for Faculty of 1000 Biology.
- Preview: Graf T and Busslinger M. "B young again." *Immunity* (2008) 28(5):606-8.

20. Mikkelsen TS, Hanna J, Zhang X, Ku M, Wernig M, Schorderet P, Bernstein B, Jaenisch R, Lander ES, and Meissner A. "Dissecting direct reprogramming through integrative genomic analysis." ***Nature*** (2008) 454(7205):794. [\[URL\]](#)

- Selected for Faculty of 1000 Biology.

21. Meissner A, Mikkelsen TS, Gu H, Wernig M, Hanna J, Sivachenko A, Zhang X, Bernstein BE, Nusbaum C, Jaenisch R, and Lander ES. "Genome scale DNA methylation maps of pluripotent and differentiated cells." ***Nature*** (2008) 454(7205):766-770. [\[URL\]](#)

22. Wernig M, Lengner CJ, Hanna J, Lodato MA, Foreman R, Staerk J, Markoulaki S, and Jaenisch R. "A drug inducible transgenic system for direct reprogramming of multiple somatic cell types." ***Nature Biotechnology*** (2008) 26(8):916-924. [\[URL\]](#)

23. Creighton M, Markoulaki S, Levine S, Hanna J, Lodato MA, Sha K, Young RA, Jaenisch R and Boyer LA. "H2AZ is enriched at polycomb Group proteins target genes in ES cells

and is required for proper execution of developmental programs." *Cell* (2008) 135(4):649-661. [\[URL\]](#)

- Selected for Faculty of 1000 Biology.

24. Carey BW, Markoulaki S, Hanna J, Saha K, Gao Q, Mitalipova M, and Jaenisch R. "Generation of mouse and human induced pluripotent stem cells with a single polycistronic virus." *PNAS* (2008) 6;106(1):157-162. [\[URL\]](#) (Erratum in *PNAS* 2009 106(13):5449)
25. **Markoulaki S***, Hanna J*, Beard C, Carey BW, Cheng AW, Lengner CJ, Dausman JA, Fu D, Gao Q, Wu S, and Jaenisch R. "Generation of transgenic mice with defined combinations of reprogramming factors." *Nature Biotechnology* (2009) 27(2):169-171. (*Equal co-first author contribution) [\[URL\]](#)
26. Hanna J*, Markoulaki S, Mitalipova M, Cheng AW, Cassady JP, Staerk J, Carey BW, Lengner CJ, Foreman R, Love J, Gao Q, Kim J, and Jaenisch R. "Metastable pluripotency states in NOD derived ES cells." *Cell Stem Cell* 2009 4(6):513-524. (*First and co-corresponding author) [\[URL\]](#)
27. Lyssiotis CA, Foreman RK, Staerk J, Garcia M, Mathur D, Markoulaki S, Hanna J, Lairson LL, Charetter BD, Bouchez LC, Bollong M, Kunick C, Brinker A, Cho SY, Schultz PG, and Jaenisch R. "Reprogramming of murine fibroblast induced pluripotent stem cells with chemical complementation of Klf4." *PNAS* (2009) 106(22):8912-8917. [\[URL\]](#)
28. Hanna J*, Saha K, Pando B, van Zon J, Lengner CJ, Creighton MP, van Oudenaarden A, and Jaenisch R. "Direct cell reprogramming is a stochastic process amenable to acceleration." *Nature* (2009) 462(7273):595-601. (*First and co-corresponding author) [\[URL\]](#)
 - Selected for Faculty of 1000 Biology.
 - Highlight: Ascheim K. *Nature Biotechnology* (2009) 27:1134.
29. Carey BW, Markoulaki S, Beard C, Hanna J, and Jaenisch R. "Single-gene transgenic mouse strains for reprogramming adult somatic cells." *Nature Methods* (2010) 7(1):56-59. [\[URL\]](#)
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