

## Orlev Levy-Nissenbaum, PhD

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### Personal Data

Date of Birth: November 19<sup>th</sup>, 1971

Place of Birth: Israel

Marital Status: Single

Military Service: 1990-1993



### Education

2008- *Program in Social Psychology toward a BA degree in Psychology, The Gershon H. Gordon faculty of social sciences, The department of psychology, Tel-Aviv University, Tel-Aviv, Israel.*

2005- *A variety of pre-clinical courses toward the MDsc diploma, Sackler faculty of medicine, Tel-Aviv University, Tel-Aviv, Israel.*

2005 *Post-doc in molecular and cellular biology, The Department of Cell Research and Immunology, and The Department of Neuroscience, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel.*

Thesis: "The role of the dual-specificity Pyst2-L phosphatase in shaping the phenotype of malignant cells".

Supervisors: Prof. Yoel Kloog and Prof. Isaac P. Witz.

2003 *Ph.D. in molecular and cellular biology, The Department of Cell Research and Immunology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel.*

Thesis: "The dual-specificity phosphatase Pyst2-L is constitutively highly expressed in myeloid leukemia and other malignant cells".

Supervisor: Prof. Isaac P. Witz.

1998 *M.Sc. in molecular biology, magna cum laude, The Department of Cell Research and Immunology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel.*

Thesis: "The translation of the ATM mRNA during the cell cycle".

Supervisor: Dr. Orna Elroy-Stein.

1996 *B.Sc. in general biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel.*

### Scholarships & Awards

2003-2005 *ICRF Postdoctoral Fellowship.*

2002 *Scholarship for outstanding achievements in studies and teaching assistance.*

1998-2003 *Faculty of Life Sciences scholarship for Ph.D. studies.*

1998 *Scholarship for outstanding achievements (Max Krantzberg).*

1996-1998 *M.Sc. in molecular biology - magna cum laude.*

1996-1998 *Faculty of Life Sciences scholarship for master studies.*

## Publications

23. Tegest Aychek, Keren Miller, Orit Sagi-Assif, Orlev Levy-Nissenbaum, Mira Israeli-Amit, Metsada Pasmanik-Chor, Jasmin Jacob-Hirsch, Ninette Amariglio, Gideon Rechavi, and Isaac P. Witz (2008) *E-selectin regulates gene expression in metastatic colorectal carcinoma cells and enhances HMGB1 release*. **Int. J. Cancer**. 122(10).
22. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2008) *The non-catalytic Pyst2-S variants enhance the activity of the dual-specificity Pyst2-L phosphatase – Final stages of preparation*.
21. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2008) *The involvement of the dual-specificity phosphatase PYST2-L in G2/M transaction – Final stages of preparation*.
20. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2008) *Mini review: What is known about the dual-specificity phosphatase PYST2*. **Cancer Letters** – *Final stages of preparation*.
19. Isaac P. Witz, and Orlev Levy-Nissenbaum (2006) *The tumor microenvironment in the post-PAGET era*. **Cancer Letters**. 231(2):1-10.
18. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2006) *The Pyst2-L phosphatase is involved in cell-crowding*. **Immunology Letters**. 104(1-2):138-145.
17. Orlev Levy-Nissenbaum (2005) *Milestones in the field of tumour microenvironment*. **Cancer and metastases reviews**. 24(3):469-472.
16. Orlev Levy-Nissenbaum (2005) *The field of tumour microenvironment*. **Folia biologica**. 51(4):85-88.
15. Diana Ideses, Uri Gophna, Orlev Levy-Nissenbaum, and Eliora Z. Ron (2005) *The lpf operon of invasive Escherichia coli*. **Int J Med Microbiol**. 295(4):227-236.
14. Izhack Cherny, Orlev Levy-Nissenbaum, Liat Rockah, Uri Gophna, Eliora Z. Ron, and Ehud Gazit1 (2005) *The formation of Escherichia coli curli amyloid fibrils is mediated by prion-like peptide repeats*. **J Mol Biol**. 352(2):245-252.
13. Adi Zipin, Orlev Levy-Nissenbaum, Rinat Eshel, Tsipi Meshel, Orit Sagi-Assif, and Isaac P. Witz (2005) *The Fucose Generating FX Enzyme and Selectin Ligands in Colorectal Cancer: A Functional Axis*. **Proceedings of the 3rd International Conference on Tumor Microenvironment: Progression, Therapy and Prevention**. Prague, Czech Republic. Isaac P. Witz, Ed., Monduzzi Editore, S.p.A., Bologna, Italy, 63-70.
12. Lilach Goldberg-Bittman, Orit Sagi-Assif, Tsipi Meshel, Ido Nevo, Orlev Levy-Nissenbaum, Isaac P. Witz and Adit Ben-Baruch (2005) *Cellular characteristics and activities of neuroblastoma cells: Regulation by the ELR--CXC chemokine CXCL10*. **Cytokines** 29(3):105-117.
11. Orlev Levy-Nissenbaum, Ehud Barak, Tamar Burg-Golani, Orit Sagi-Assif, Yoel Kloog, and Isaac P. Witz (2004) *Does the dual-specificity MAPK Phosphatase Pyst2-L lead a monogamous relationship with the Erk2 protein?* **Immunology Letters** 92(1-2):149-56.
10. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2004) *Characterization of the dual-specificity phosphatase PYST2 and its transcripts*. **Genes, Chromosomes and Cancer** 39(1):37-47.
9. Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, and Isaac P. Witz (2003) *The dual-specificity phosphatase PYST2-L is constitutively highly expressed in myeloid leukemia and other malignant cells*. **Oncogene** 22(48):7649-7660.

8. Orlev Levy-Nissenbaum, Shay Hantisteanu, Orit Sagi-Assif, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (2003) *cDNA microarray analysis reveals an over expression of the dual-specificity MAPK phosphatase PYST2 in acute leukemia. **Methods in Enzymology** 366:103-113.*
7. Orlev Levy-Nissenbaum, Orit Sagi-Assif, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz. (2003) *Over expression of the dual-specificity MAPK phosphatase PYST2 in acute leukemia. **Cancer Letters** 199(2):185-192.*
6. Orlev Levy-Nissenbaum, Orit Sagi-Assif, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (2002) *PYST2, a MAPK dual specificity phosphatase is regulated by microenvironmental factors. **Proceedings of the 2nd International Conference on Tumor Microenvironment: Progression, Therapy and Prevention.** Baden, Austria. Isaac P. Witz, Ed., Monduzzi Editore, S.p.A., Bologna, Italy, 1:11-17.*
5. Shay Hantisteanu, Orlev Levy-Nissenbaum, Orit Sagi-Assif, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, Isaac P. Witz (2002) *Adherence up regulates expression of PYST2-L in Myeloid Leukemia cells. **Proceedings of the 2nd International Conference on Tumor Microenvironment: Progression, Therapy and Prevention.** Baden, Austria. Isaac P. Witz, Ed., Monduzzi Editore, S.p.A., Bologna, Italy, 1: 95-100.*
4. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2002) *Complete PYST2-L cDNA. **GenBank**, Accession number - AF508727.*
3. Orlev Levy-Nissenbaum, Orit Sagi-Assif, and Isaac P. Witz (2002) *Complete PYST2-S cDNA. **GenBank**, Accession number - AF508728.*
2. Jacob Romano, Beni-Adani L, Orlev Levy-Nissenbaum, Brenneman DE, Shohami E, Ilana Gozes (2002) *A single administration of the peptide NAP induces long-term protective changes against the consequences of head injury: gene Atlas array analysis. **Journal Molecular Neuroscience** 18(1-2):37-45.*
1. Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (2001) *High expression of the dual-specificity phosphatase PYST2 in leukocytes derived from AML patients. **Blood** 98 (11): 2440 Part 1.*

### Presentations at Meetings

- Orlev Levy-Nissenbaum, Shlomit Ben-Menachem, Orit Sagi-Assif, and Isaac P. Witz (September 7<sup>th</sup> – September 11<sup>th</sup>, 2005) *The PYST2-L phosphatase is involved in cell-crowding. The 13<sup>th</sup> symposium on signals and signal processing in the immune system. Balaton, Hungary – **Lecture & Poster.***
- Orlev Levy-Nissenbaum, Tamar Burg-golani, Ehud Barak, Orit Sagi-Assif, Yoel Kloog, and Isaac P. Witz (October 14<sup>th</sup>, 2004) *The Pyst2-L phosphatase controls microenvironmental signals delivered through ERK and JNK. The 3<sup>rd</sup> international conference on tumor microenvironment progression, therapy and prevention, Prague, Czech Republic – **Lecture & Poster.***
- Orlev Levy-Nissenbaum (November 27<sup>th</sup>, 2003) *Does the dual-specificity MAPK Phosphatase Pyst2-L lead a monogamous relationship with the Erk2 protein? Tel-Aviv University, Tel-Aviv, Israel – **Plenary lecture in the honor of Prof. Alberto Mantovani.***

- Orlev Levy-Nissenbaum (September 9<sup>th</sup>, 2003) *The MAP-kinase phosphatase PYST2-L is constitutively highly expressed in myeloid leukemia, in other malignant cells and in activated endothelial and T cells*. Institute of immunology, Buda-pest, Hungary – **Plenary lecture in the honor of Prof. Balázs Sarkadi**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Shay Hantisteanu, Tamar Burg, and Isaac P. Witz (September 3<sup>rd</sup> – September 7<sup>th</sup>, 2003) *The MAP-kinase phosphatase PYST2-L is constitutively highly expressed in myeloid leukemia, in other malignant cells and in activated endothelial and T cells*. The 12<sup>th</sup> symposium on signals and signal processing in the immune system. Sopron, Hungary – **Lecture & Poster**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Shay Hantisteanu, Tamar Burg and Isaac P. Witz (June 29<sup>th</sup> - July 3<sup>rd</sup>, 2003) *Characterization of the two variants of the dual-specificity phosphatase PYST2*. Europhosphatases 2003 (EMBO Conference & FEBS Advanced Course), Barcelona, Spain – **Poster**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (April 10<sup>th</sup> – April 12<sup>th</sup>, 2003) *The PYST2-S is regulated by microenvironmental factors and may function as a negative regulator of the dual specificity PYST2-L phosphatase*. In: Annual meeting of the Cancer Biology Research Center, Tel-Aviv University – Joint conference, Kfar Blum, Israel – **Lecture**.
- Orlev Levy-Nissenbaum, Shay Hantisteanu, Orit Sagi-Assif, Dina Kapon, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, and Isaac P. Witz (July 13<sup>th</sup>, 2002) *The effect of environmental stresses on the expression level of PYST2 mRNA in human myeloid leukemia cell lines*. 2002 FASEB summer research conferences – protein phosphatases, Snowmass village, Snowmass, Colorado, USA – **Poster**.
- Orlev Levy-Nissenbaum, Shay Hantisteanu, Orit Sagi-Assif, Dina Kapon, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, and Isaac P. Witz (June 28<sup>th</sup>, 2002) *The effect of biological modifiers on the expression level of PYST2 mRNA in human myeloid leukemia cell lines*. The 2<sup>nd</sup> international conference on tumor microenvironment progression, therapy and prevention, Baden, Austria – **Lecture & Poster**.
- Orlev Levy-Nissenbaum (May 6<sup>th</sup>, 2002) *PYST2 is a DUSP associated with malignancy, cell activation and differentiation*. Tel-Aviv University, Tel-Aviv, Israel – **Plenary lecture in the honor of Prof. William Paul**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, and Isaac P. Witz (July 22<sup>nd</sup> – July 27<sup>th</sup>, 2001) *Gene-expression profiles of acute myeloid leukemia the case of PYST2 phosphatase*. In: 11<sup>th</sup> International congress of immunology, Stockholm, Sweden – **Lecture & Poster**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat, and Isaac P. Witz (July 8<sup>th</sup> – July 12<sup>th</sup>, 2001) *High expression of the dual-specificity phosphatase PYST2 in leukocytes derived from acute myeloid leukemia (AML) patients*. In: Protein phosphorylation and protein phosphatases, EMBO conference, Marburg, Germany - **Plenary lecture**.
- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Shay Hantisteanu, Pia Raanani, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (February 22<sup>nd</sup> – February 24<sup>th</sup>, 2001) *The dual-specificity PYST2 phosphatase is highly expressed in AML cells*. In: Annual meeting of the Cancer Biology Research Center, Binational conference, Tel-Aviv University and University of Vienna, Eilat, Israel – **Lecture**.

- Orlev Levy-Nissenbaum, Orit Sagi-Assif, Dina Kapon, Abraham Avigdor, Isaac Ben-Bassat and Isaac P. Witz (February 10<sup>th</sup> – February 12<sup>th</sup>, 2000) *Differential expression of genes during primary and secondary leukomogenesis*. In: Annual meeting of the Cancer Biology Research Center, Tel-Aviv University – Joint conference, Nazareth, Israel, – **Poster**.

## Lecturing & Teaching experience

- 2007 - **Senior lecturer and Scientific mentor** of graduate students, Hadassah College, Jerusalem (HCJ), Israel.
- 2006 - **Molecular biology of the cell**, and **Introduction to genetic engineering** (The Assaf Harofeh Medical Center, Rishon Le Zion) – Course writer and lecturer. I developed the concept, wrote the entire syllabuses, and was the sole lecturer.
- 2006 - **Basic and clinical immunology** (The Chaim Sheba Medical Center at Tel Hashomer) – Course writer and lecturer. I developed the concept, wrote the entire syllabuses, and was the sole lecturer.
- 2005 - **The biochemical molecular and genetic basis of genetic diseases** (Hadassah College Jerusalem) - Course writer and lecturer. I developed the concept, wrote the entire syllabuses, and was the sole lecturer. Academic mentor for graduate students in their Training period, Seminar for graduate students – coordinator.
- 2005 - **Introduction to molecular Immunology** (Ort Braude Collage of engineering) - Course writer and lecturer. I developed the concept, wrote the entire syllabuses, and was the sole lecturer. **Cell biology** (Guest lecturer), and **Molecular biology of the cell** (Guest lecturer).
- 2004 - **Topics in hematology** (The Chaim Sheba Medical Center at Tel Hashomer) – course coordinator and guest lecturer.
- 1997 - 2005 **Introduction to Cell biology**, and **Molecular biology of the cell** (Tel-Aviv University) - Teaching assistance.
- 1996 - 1997 “**Chetz project**” (Tichon Irony Hey & the Weizmann institute) – personal mentor for undergraduate students.
- 1996 - 1997 **Chemistry, physics & sciences** (Tichon Irony Hey) – teacher.
- 1995 - 1997 **Basic Biology** (Gretz elementary school) – teacher.
- 1994 - 1996 Travelers guide – Society for protection of Nature in Israel (SPNI)

## Languages

Fluent in Hebrew and English.

## Selected Hobbies & Activities

Ballroom dancing, Scuba-diving (PADI certified, two stars + Nitrox), Guitar playing, Computers and Internet surfing, Electronics, Horseback riding (English and Western styles), Cooking & baking, and gardening.