
DR. AMIR ORIAN BIOGRAPHICAL SKETCH

<p>NAME</p> <p>Amir M. Orian (Oryan)</p> <p>Date of Birth: Nov. 13. 1964</p> <p>Nationality: Israeli</p> <p>Marital Status: M+3</p>	<p>ADDRESS:</p> <p>Cancer Center (11th floor) Rappaport Institute & Faculty of Medicine Technion-Israel Institute of Technology 4 Efron St Bat-Galim Haifa Israel 972-4-8295448 / 9 mdoryan@tx.technion.ac.il</p>
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EDUCATION/			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR	FIELD OF STUDY
Technion-Israel Institute of Technology, Haifa, Israel.	B.Sc. (With excellence)	1993	Medical Sciences
Technion-Israel Institute of Technology, Haifa, Israel.	M.D.	1999	Medicine
Technion-Israel Institute of Technology, Haifa, Israel.	D.Sc.	2000	Biochemistry
Fred Hutchinson Cancer Research Center, Seattle, WA, USA.	Postdoc. Fellow	2000- 2005	Cancer Biology/Genetics

Research and Professional Experience

- 2005- **Assistant Professor** (Senior Lecturer) Cancer Center, Faculty of Medicine Technion-Israel Institute of Technology, Haifa, Israel.
- 2005- **Member**-Rappaport Cancer Center and Research Institute, Haifa, Israel.
- 2006, 2007 **Visiting Assistant Professor** Division of basic Sciences, Fred Hutchinson Cancer Research Center.
- 2000-2005 **Postdoctoral Fellow** with Dr. Robert N. Eisenman Division of Basic Sciences Fred Hutchinson Cancer Ctr. Seattle, WA, USA.
- 1998-1999 **Clinical Rotating internship**, Rambam Medical Center, Haifa, Israel
- 1993-2000 **Ph.D. Graduate student:** Role of the Ubiquitin Proteolytic System in the activation of the transcriptional factor NF- κ B. Department of Biochemistry and the Rappaport Institute for Research in the Medical Sciences, Technion-Israel Institute of Technology, Haifa, Israel. Supervisor: Dr. Aaron Ciechanover
- 1991, 1993, 1995, 1998 **Visiting Scientist**, Division of Hematology/Oncology, Department of Pediatrics, Children's Hospital, Washington University School of Medicine, St. Louis, MO. (With: Dr. Alan L. Schwartz).

Awards and Fellowships

- 1995-1997 "Alon" Fellowship for selected Ph.D. student on the basis of academic achievements.
- 1995-1997 The "Foulkes" Foundation Fellowship for MD/Ph.D. students (The Foulkes Foundation, United Kingdom, and the Israeli Academy of Science and Humanities)
- 1996 Wolf Foundation Prize for M.Sc. Research
- 1996 The 2nd Annual Research Meeting of the Faculty of Medicine: 1st Prize for Basic and Clinical Graduate Student Research
- 1997-1999 "Clore" Fellowship for academic excellence (The the Charls Clore Israel Foundation)

1999	Rambam Intern Award of Excellence for the years 1998-9, Rambam Medical Center,
2000	Haifa, Israel
2000	EMBO-Postdoctoral Fellowship-Decline
2000-2003	Human Frontier Science Program (HFSP) Postdoctoral Fellowship
2005-2008	HFSP CDA
2004-2007	Special Fellow-LLS USA
2005	Horev Special Fellow-Technion
2005	Alon Fellow-ISF
2007	Kril Award-The Wolf foundation (Wolffund.org.il)

Current Grants:

2008-2010	GIF
2007-2009	ISF-Bikura
2005-2011	Rappaport Research Grant
2004-2007	Special Senior Fellow- Leukemia and Lymphoma Society of America
2004-2007	HFSP CDA
2005-2007	Alon Fellowship for young investigators
2005-2007	Horev CDA fellow- Technion

Publications:

Research papers in refereed journals:

1. Cinnamon E., Helman, A., **Orian, A.**, Jiménez G. and Paroush, Z. (2008) Multiple RT pathways down-regulate Groucho-mediated repression in Drosophila embryogenesis *Development* **135**: 829-37
2. **Orian A.**, Delrow, J., Rosales-Nieves, E., Mona Abed, Paroush Z., Eisenman, R. N. & Parkhurst, S. M (2007) A Myc–Groucho complex integrates EGF and Notch signalling to regulate neural stem cell fate and mitosis *PNAS* **104**: 15771-15776
3. Grewal S. S., Li L., **Orian A.** and Edgar B. A., (2004) Myc-dependent regulation of ribosomal RNA synthesis during Drosophila development. *Nat. Cell. Biol.* **7**: 295-302
4. Markus Welcker*, **Orian A. ***, Robert N. Eisenman, and Bruce E. Clurman (2004) Regulation of Cell Growth and c-Myc by a Nucleolar Fbw7 Isoform. *Cur. Biol.* **14**: 1852-1857. (* equal contributors).
5. Bianchi-Frais D., **Orian A.**, Delrow J., Vazquez J., Rosales-Nieves A. E, and Parkhurst S. M., (2004). Hairy-mediated transcriptional repression and cofactor recruitment in Drosophila *PloS Biology* **2**: 975-986
6. Welcker M. *, **Orian A. ***, Jin, J., Harper W. J., Eisenman R. N., and Clurman B. (2004) The Fbw7-box protein Regulates GSK3 Phosphorylation Dependent c-Myc Protein Degradation. *Proc. Natl. Acad. Sci. USA* (*equal contributors), (PNAS online: May 18, 2004, 10.1073/pnas.0402770101)
7. **Orian A.**, van Steensel B, Delrow J., Bussemaker H. J., Li, L., Tomoyuki, S., Williams, E., Loo, L. M., Cowley S., Yost C, Pierce S., Edgar B. A., Parkhurst S.M., and Eisenman R.N. (2003) Genomic Binding by the Drosophila Myc, Max, Mad/Mnt Transcription Factor Network *Genes & Dev.* **17**: 1101-1114
8. Hook S., **Orian A.**, Cowley SM., and Eisenman R.N. (2002) Histone deacetylase 6 binds polyubiquitin through its zinc finger (PAZ domain) and co-purifies with deubiquitinating enzymes *Proc. Natl. Acad. Sci. USA* **99**: 13425-13430
9. Cohen S*, **Orian A. ***, Ciechanover A. (2001) Processing of p105 is inhibited by docking of p50 active subunits to the ankyrin repeat domain, and inhibition is alleviated by signaling via the carboxyl-terminal phosphorylation/ ubiquitin-ligase binding domain. *J. Biol. Chem.* **276** : 26769-26776 (*equal contributors)
10. Ciechanover A., Gonen H., Bercovich B., Cohen S., Fajerman I., Israel A., Mercurio F., Kahana C., Schwartz A. L., Iwai K., **Orian A.** (2001) Mechanisms of ubiquitin-mediated, limited processing of the NF-kappaB1 precursor protein p105. *Biochimie* **83**: 341-349

11. **Orian A.**, Gonen H., Bercovich B., Fajerman I, Eytan E, Israel A, Mercurio F, Iwai K, Schwartz AL, Ciechanover A. (2000) SCF (β -TrCP) ubiquitin ligase-mediated processing of NF- κ B p105 requires phosphorylation of its C-terminus by IkappaB kinase. *EMBO J.* **19** 2580- 2591
12. Gonen H., Bercovich B., **Orian A.**, Carrano A., Takizawa C., Yamanaka K., Pagano M., Iwai K., Ciechanover A. (1999) Identification of the ubiquitin carrier proteins, E2s, involved in signal-induced conjugation and subsequent degradation of IkappaB α . *J. Biol Chem.* **274** 14823-14830
13. **Orian, A.**, Whiteside, S., Israël, A., Schwartz, A.L., Kahana, C., and Ciechanover, A.C. (1999) Structural motifs involved in ubiquitin-mediated limited processing of the NF- κ B1 precursor protein p105. *Mol. Cell. Biol* **19** 3664-73.
14. Alkali, I., Yarom, A., Htzubay, A., **Orian, A.**, Ciechanover, A., and Ben-Neria, Y. (1995) Stimulation-dependent I κ B phosphorylation marks the NF- κ B inhibitor for degradation via the ubiquitin-proteasome pathway. *Proc. Natl. Acad. Sci. USA* **92**:10599-10603.
15. Stankovsky, I., Gonen, H., **Orian, A.**, Schwartz, A.L., and Ciechanover, A. (1995) Degradation of the proto-oncogene product c-Fos by the ubiquitin proteolytic system in vivo and in vitro: identification and characterization of the conjugating enzymes. *Mol. Cell. Biol.* **15**: 7106-7116.
16. **Orian, A.**, Whiteside, S., Israel, A., Stankovsky, I., Schwartz, A.L., and Ciechanover, A. (1995) Ubiquitin-mediated processing of NF- κ B transcriptional activator precursor p105: reconstitution of a cell-free system and identification of the ubiquitin-carrier protein, E2, and a novel ubiquitin-protein ligase, E3, involved in conjugation. *J. Biol. Chem.* **270**:21707-21714.
17. Ciechanover, A., DiGiuseppe, J.A., Bercovich, B., **Orian, A.**, Richter, J.D., Schwartz, A.L., and Brodner, G.M. (1991) Degradation of nuclear oncoproteins by the ubiquitin system in vitro. *Proc. Natl. Acad. Sci. USA* **88**:139-143.

Invited Reviews:

1. **Orian A.** (2006) Chromatin profiling, DamID and the emerging landscape of gene expression *Curr. Op. in Genetics and Development* **16**: 157-164.
2. **Orian A.** Grewal S., Knoepfler P. S., Edgar B. A., Parkhursts S. M. and Eisenman Genomic Binding and Transcriptional Regulation by the Drosophila Myc and Mnt *Cold Spring Harbor Symp. Quant. Biol* **70**: 1-10.
3. **Orian A.** and Eisenman R. N. (2001) TGF- β Flips the Myc Switch *Science's STKE*:
4. Ciechanover A, **Orian A.**, Schwartz A. L. (2000) Ubiquitin-mediated proteolysis: biological regulation via destruction *Bioassays* **22**: 442-451
5. Ciechanover, A., **Orian, A.**, and Schwartz A. L. (2000) The Ubiquitin Proteolytic pathway: mode of action and clinical implications. *J. Cell. Biochem.* **77**: 40-51.
6. Ciechanover, A., Bercovich, B., Stankovsky, I., Ben-Neria, Y., and **Orian, A.** (1995) The ubiquitin-mediated Proteolytic system: involvement of molecular chaperones, degradation of oncoproteins, and activation of transcriptional regulators. *Cold Spring Harbor Symp. Quant. Biol.* **60**: 491-501.

Original Book Chapters:

1. "Proteasomes: The World of Regulatory Proteolysis" editors: Wolfgang Hilt and Dieter H. Wolf R G Landes Co; ISBN 1570596212 Chapter 13: Aaron Ciechanover, **Amir Orian**, Alan L. Schwartz. The ubiquitin-proteasome pathway in mammals: Mechanisms of action and Involvement in pathogenesis of diseases.
2. Ubiquitin-Proteasome Proteolytic System: From Classical Biochemistry to Human Diseases, Recent Advances in Human Biology Vol. 9 World scientific ISBN 981231007 2003 Ed. Ciechanover A. J. Masucci M. G. Chapter 5: Ciechanover A., Gonen H., Bercovich B., and Cohen S., and **Orian A.** Mechanisms and Regulation of Ubiquitin-Mediated, Limited Processing of the NF- κ B Precursor Protein p105.

