

## CURRICULUM VITAE

Leland H. Hartwell

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### EDUCATION:

California Institute of Technology	B.S.	1961
Massachusetts Institute of Technology	Ph.D.	1964
Salk Institute for Biological Studies	postdoc	1964-1965

### PROFESSIONAL RECORD:

<u>Institution</u>	<u>Position</u>	<u>From To</u>
University of California, Irvine	Assistant, Assoc. Professor	1965-1968
University of Washington	Associate & Full Professor (1973)	1968-present
Stanford University	Sabbatical	1983
Fred Hutchinson Cancer Research Center	Sabbatical	1984
Fred Hutchinson Cancer Research Center	Member, Sr. Advisor Sci. Affairs	1996
Fred Hutchinson Cancer Research Center	President and Director	1997-2010
Virginia G. Piper Charitable Trust	Chair of the Executive Committee	2007-2009
Virginia G. Piper Charitable Trust	Piper Chair, Personalized Medicine	2009-
Fred Hutchinson Cancer Research Center	President and Director Emeritus	2010-
Arizona State University	Professor	2010-
Arizona State University, Biodesign Institute	Chief Scientist, Center for Sustainable Health	2010-

### PROFESSIONAL AWARDS:

1973	Eli Lilly Award in Microbiology and Immunology
1983-1984	American Cancer Society Scholar
1990-1997	American Cancer Society Research Professor Genetics
1990	National Institutes of Health Merit Award
1991	General Motors Sloan Award
1991	Hoffman LaRoche Mattia Award
1992	Gairdner Foundation International Award
1992	University of Chicago Simon Shubitz Award
1993	Brandeis University Rosenstiel Award
1994	Sloan-Kettering Cancer Center Katherine Berkan Judd Award
1994	Genetics Society of America Medal
1995	MGH Warren Triennial Prize
1995	Columbia University Horwitz Award
1995	Keith Porter Award, Amer Soc Cell Biology
1996	Passano Award
1996	Carnegie Mellon Dickson Prize
1998	American Academy of Arts and Sciences membership
1998	Albert Lasker Basic Medical Research Award
1998	Brinker International Award for Basic Science - Susan G. Komen Breast Cancer Foundation
1999	California Institute of Technology - Distinguished Alumni Award
1999	City of Medicine Award
1999	American Cancer Society Medal of Honor
2000	Léopold Griffuel Prize - Association pour la Recherche sur le Cancer, France
2000	The Massry Prize – The Meira and Shaul G. Massry Foundation
2001	The Nobel Prize in Physiology or Medicine
2003	State of Washington, State Medal of Merit
2004	Honorary Professor, Tsinghua University, China

2004 Honorary Professor, Peking Union Medical College, Beijing, China  
2004 Alfred G. Knudson Award in Cancer Genetics – National Cancer Institute  
2005 Distinguished Scientist Award – Association of American Cancer Institutes  
2007 Honorary Doctor of Science, Arizona State University  
2008 Washington State Academy of Sciences (Founding Class)  
2008 Honorary Academician, Academia Sinica, Republic of China

#### **PROFESSIONAL SOCIETIES:**

National Academy of Sciences  
American Academy of Arts & Sciences

#### **PROFESSIONAL SERVICES:**

Genetics Study Section, NIH, 1980-1982  
Eukaryotic Genetics Study Section, NSF, 1986  
President, Genetics Society of America, 1991  
National Advisory General Medical Sciences Council, 1991-1995  
NCI Cancer Genetics Working Group, 1996-  
NHGRI Scientific Planning Subcommittee, 1997-  
NIEHS Genome Project Working Group, 1997-  
HHMI Genetics Program Review Committee, 1998-  
Advisor to NCI for biomarkers, 2003-2004  
NCI- Board of Scientific Advisors, 2006-2009

#### **PATENTS:**

**Methods for Drug Target Screening;** Friend, Stephen H, Hartwell, Leland. US Patent No. 7,122,312 B1 Oct 17, 2006

#### **BIBLIOGRAPHY:**

##### **Books:**

**Hartwell, L.H.**, Hood, Leroy, Goldberg, Michael L., Reynolds, Ann E., Silver, Lee M., Veres, Ruth C. 1999 Genetics – From Genes to Genomes. McGraw Hill

Brewer, Bonita J., Friedman, Jan M., **Hartwell, L. H.**, Manoil, Colin C., Sibley, Carol, Toriello, Helga V. 1993 Solving The Puzzle: Careers in Genetics The Genetics Society of America

#### **PUBLICATIONS:**

**Hartwell, L.**, Mankoff, D, Paulovich, A, Ramsey, S., Swisher, E. 2006 Cancer biomarkers: a systems approach Nature Biotechnology 24(8): 905-908

Aebersold, R, Anderson, L., Caprioli, R., Druker, B., **Hartwell, L.**, Smith, R 2005 Perspective: a program to improve protein biomarker discovery for cancer. J Proteome Res Jul-Aug; 4(4):1104-09

\*Hartman, J.L. and Tippery, N.P. 2004 Systematic quantification of gene interactions by phenotypic array analysis Genome Biology 5:R49

**Hartwell, L.** 2004 Robust Interactions Science 303: 774 (5659)

Etzioni, R., Urban, N., Ramsey, S., McIntosh, M., Schwartz, S., Reid, B., Radich, J, Anderson, G, **Hartwell, L.** 2003 The Case for Early Detection Nature Reviews / Cancer Vol 3: 243-252

Hartman, J., **Hartwell, L.H.**, Garvik, B. 2001 Principles for the Buffering of Genetic Variation. Science 291:1001-1004

- Emili, A., Schieltz, D.M., Yates, J.R., **Hartwell, L.H.** 2001. Dynamic Interaction of DNA Damage Checkpoint Protein Rad53 with Chromatin Assembly Factor Asf1. *Molecular Cell* 7: 13-20.
- \*Foss, E.J. 2001. Tof1p Regulates DNA Damage Responses During S Phase in *Saccharomyces cerevisiae* *Genetics* 157: 567-577
- Simon, J.A., Szankasi, P., Nguyen, D.K., Ludlow, C., Dunstan, H.M., Roberts, C.J., Jensen, E.L., **Hartwell, L.H.**, Friend, S.H. 2000. Differential toxicities of anticancer agents among DNA repair and checkpoint mutants of *Saccharomyces cerevisiae*. *Cancer Res.* 60(2): 328-333.
- \*Foss, E. J. 2000 Is Rad9p Upstream or Downstream from Mec1p? *Cold Spring Harbor Symposia on Quantitative Biology*, Vol LXV
- Hartwell, L.H.**, Hopfield, J. J., Leibler, S., Murray, A.W. 1999 From molecular to modular cell biology. *Nature* 402 supplement (6761): C47-C52.
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- Nurse, P., Masui, Y., **Hartwell, L.** 1998 Understanding the cell cycle. *Nature Medicine* 4(10):1103-1106.
- \* Emili, A. 1998. MEC1-dependent phosphorylation of Rad9p in response to DNA damage. *Molecular Cell* 2: 183-189
- Paulovich, A. G., Armour, C. D. and **Hartwell, L. H.** 1998. The *Saccharomyces cerevisiae* RAD9, RAD17, RAD24, and MEC3 genes are required for tolerating irreparable, UV-induced DNA damage. *Genetics* 150(1):75-93.
- Brown, P. O. and **Hartwell, L. H.** 1998. Genomics and human disease - variations on variation. *Nature Genetics* 18: 91-93.
- Hartwell, L. H.**, Szankasi, P. Roberts, C. J., Murray, A. W., and Friend, S. H. 1997. Integrating Genetic Approaches into the Discovery of Anti-cancer drugs. *Science* 278(5340): 1064-1068.
- Schrick, K, Garvik, B, and **Hartwell, L.** 1997. Mating in *Saccharomyces cerevisiae*: Pheromone receptor and G protein but not components of the MAP kinase cascade are required for response to pheromone. *Genetics* 147: 19-32.
- Hartwell, L.** 1997. Theoretical biology: A robust view of biochemical pathways. *Nature* 387(6636): 855, 857.
- Toczyski, D.P., Galgoczy, D.J., and **Hartwell, L.H.** 1997. CDC5 and CKII control adaptation to the yeast DNA damage checkpoint. *Cell* 90(6):1097-1106.
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