



Leland H. Hartwell

GRFP Recipient: 1961

Undergraduate Institution:
B.S. 1961, California Institute of
Technology

Graduate Institution:
Ph.D. 1964, Massachusetts
Institute of Technology

Graduate Field of Study:
Biology

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Current Position:
Chief Scientist, Center for
Sustainable Health, Biodesign
Institute, Arizona State University

RESEARCH INTERESTS //

Leland H. Hartwell currently works on two projects at Arizona State University (ASU). The goal of the first is to identify, verify and validate biomarkers to improve healthcare and reduce costs for a variety of diseases. The project is conducted at Chang Gung Memorial Hospital and University in Taiwan. The second project is to educate teachers-in-training in sustainability science. His interests for the past several years have turned to how researchers can use the enormous knowledge that has accumulated during the last 50 years in genetics and biochemistry to improve molecular diagnostics to benefit human health. By using powerful protein biomarkers, scientists hope to identify individuals at high risk for disease, detect cancer and other diseases at an early stage when they can be cured, and provide improved prognostic information and better therapeutic response.

AWARDS/ HONORS //

- Alfred G. Knudson Award in Cancer Genetics, National Cancer Institute (2004)
- Nobel Prize in Physiology or Medicine (2001)
- Medal of Honor, American Cancer Society (1999)
- Distinguished Alumni Award, California Institute of Technology (1999)
- Albert Lasker Basic Medical Research Award (1998)
- Keith Porter Award, American Society of Cell Biology (1995)
- Genetics Society of America Medal (1994)
- Gairdner Foundation International Award (1992)
- The Sloan Award, General Motors (1991)
- Member, National Academy of Sciences (1987)
- Eli Lilly Award in Microbiology and Immunology (1973)

POSITION PROFILE //

Hartwell is the Virginia G. Piper Chair of Personalized Medicine. He joined the faculty of ASU in 2010 as chief scientist at the Center for Sustainable Health at the Biodesign Institute. Additionally, Hartwell is a professor in the School of Biological and Health Systems Engineering and also at the Mary Lou Fulton Teacher's College, where he leads an effort in K-8 teacher education for sustainability science. Hartwell is Distinguished Chair Professor at the Chang Gung Memorial Hospital System and University in Taiwan, full affiliate member at The Methodist Hospital Research Institute in Houston, Texas, and president and director emeritus at the Fred Hutchinson Cancer Research Center in Seattle, Wash. (1997-2010). Hartwell is chairman of the scientific advisory board at the Canary Foundation, and is also a founding co-chair of the Pacific Health Summit and a member of its executive committee.