

Eric William Humke M.D., Ph.D.

Position:

2009 – Present **Stanford University**
Clinical Instructor

Education:

2006 – 2009 **Stanford University**
Oncology Fellow

2004 – 2006 **Washington University in St. Louis**
Physician Scientist Training Program in Internal Medicine

1994 – 2004 **University of Michigan**
Medical Scientist Training Program (M.D./Ph.D.)

1997 – 2002 **Genentech, Inc.**
Visiting Scientist (doctorate research)

1990 – 1994 **Brown University**
B.S. with honors in Neuroscience

Licensure and Certification:

2006 Full California Medical License

2008 – 2018 American Board of Internal Medicine Certification in Internal
Medicine

Research:

2009 – Present Post-doctoral research. Stanford University, Dr. Rajat Rohatgi.
Departments of Biochemistry and Oncology

2007 – 2009 Post-doctoral research. Stanford University, Dr. Matthew Scott.
Departments of Developmental Biology and Oncology

1996 – 2002 Doctoral research. University of Michigan and Genentech, Inc..
Dr. Vishva Dixit. Departments of Cellular and Molecular
Biology and Molecular Oncology.

1994 Honors research. Brown University, Dr. Ron Majocho.
Department of Neurology

1991 – 1993 Undergraduate research. Brown University. Dr. Patrick
Aebischer.
Artificial Organs, Biomaterials, and Cellular Technology

Awards, Grants and Scholarships:

2009	Developmental Cancer Research Award (DCRA) in Translational Science
2009	Amgen Hematology-Oncology Fellowship Award
2009	AACR Pancreas Cancer Action Network Fellowship
2009	Stanford University Digestive Disease Center pilot award grant
2006	Barnes-Jewish Hospital Medicine Clinic Top Resident Physician
2004	University of Michigan Dean's Award for Research Excellence
2004	University of Michigan MTSP Excellence in Research Award
2003	Walther Cancer Institute's Dr. Karl R. Ruddell Scholarship
2001	1st prize, Blue Cross Blue Shield of Michigan Foundation Excellence in Research Award
1999	Speaking award, Genentech Post Doc Off-site Meeting
1992	Hughes Advanced Undergraduate Research Fellowship
1990 – 1994	Upper Midwest Scholarship for Brown University

Professional Affiliations and Certifications:

2009 – Present	Associate Member, American Association of Cancer Research
2006 – Present	Associate Member, American Society of Clinical Oncologists
1998 – 2001, 2004	Scientific advisor for Ingenuity Systems, Inc.

Presentations:

2009	Selected Speaker, Biochemistry Research Conference. Sierra Conference Center, Stanford University.
2008	Invited Speaker, Cancer Education Seminar Series. The Hedgehog signaling pathway in cancer. Stanford University.
2000	Invited Speaker, International Congress in Transplantation. Rome, Italy.

- 2000 Invited Speaker, Genentech Seminar Series.
Genentech, Inc., South San Francisco, CA
- 1999 Invited Speaker, University of California at Davis
Biotechnology Training Grant Conference.
Christian Brothers Winery, Napa, CA
- 1998 – 2001 Invited Speaker, Genentech Post-Doc Off Site Meeting.
Marconi Conference Center, Marconi, CA

Publications:

- Humke, E.W.**, Scott, M.P., Rohatgi, R. SuFu association controls the balance between the activator and repressor functions of the Gli proteins in Hedgehog signaling. In preparation.
- Humke, E.W.**, Rohatgi, R., Scott, M.P. The Hedgehog Pathway. Molecular Oncology: Causes of Cancer and Targets for Treatment. Book editors: Edward Gelmann, Charles Sawyers, and Frank Rauscher III. Submitted.
- Barakat M, **Humke E.W.**, Scott M.P. Learning from Jekyll to control Hyde: Hedgehog signaling in development and cancer. Submitted.
- J. Kim, Quon, A., **Humke, E.**, Ford, J.M., Koong, A.C. Detection of Solitary Humeral Metastasis From Pancreatic Adenocarcinoma With F-18 FDG PET/CT. Clinical Nuclear Medicine. Volume 34, Number 5, May 2009
- Hsu L.C., Ali S.R., McGillivray S, Tseng P.H, Mariathasan S, **Humke E.W.**, Eckmann L, Powell J.J., Nizet V, Dixit V.M., Karin M. A NOD2-NALP1 complex mediates caspase-1-dependent IL-1 β secretion in response to Bacillus anthracis infection and muramyl dipeptide. Proc Natl Acad Sci U S A. 2008 Jun 3;105(22):7803-8.
- Fairbrother, W.J., Gordon, N.C., **Humke, E.W.**, O'Rourke, K.M., Starovasnik, M.A., Yin, J.P., Dixit, V.M. The PYRIN Domain: A member of the death domain-fold superfamily. Protein Science. Vol 10, 1911-1918. 2001.
- E.W. Humke**, S. Shriver, M. Starovasnik, W. Fairbrother, V.M. Dixit. ICEBERG, A Novel Inhibitor of Interleukin 1 β Generation. Cell. Vol. 103, 99-111. Sept 29, 2000.
- E.W. Humke**. Apoptosis [Web alert]. Chemistry & Biology 2000, 7:R48-R49.
- Henning R. Stennicke, Quinn L. Deveraux, **Eric W. Humke**, John C. Reed, Vishva M. Dixit, Guy S. Salvesen. Caspase-9 can be activated without proteolytic processing. Journal of Biological Chemistry. Vol 274 No.13., March 26, 1999. pp. 8359-8362.

E.W. Humke, J. Ni, and V.M. Dixit. ERICE, A Novel FLICE Activatable Caspase. *Journal of Biological Chemistry*. Vol 273, No. 25., June 19, 1998. pp. 15702-15707.

E.W. Humke*, G. Pan, and V.M. Dixit. Activation of caspases triggered by cytochrome c in vitro. *FEBS Letters*: Vol 426, Number 1, 10 April 1998. pp. 151-154. **Co-first author*

R.E. Majocha, S. Agrawal, J-Y Tang, **E.W. Humke**, and C.A. Marotta. Modulation of the PC12 Cell Response to Nerve Growth Factor by Antisense Oligonucleotide to Amyloid Precursor Protein. *Cellular and Molecular Neurobiology*, Vol 14, No. 5 pg 425-437. 1994.

Selected Abstracts:

E.W. Humke, S. Shriver, M. Starovasnik, W. Faribrother, V.M. Dixit.. ICEBERG, A Novel Inhibitor of Interleukin-1 β converting enzyme. Genentech Asilomar Meeting, August 2000.

E.W. Humke and V.M. Dixit. ICEBERG, A Novel Inhibitor of Interleukin-1 β converting enzyme. Genentech Post-Doc Off Site Meeting, October 1999.

E.W. Humke and V.M. Dixit. . ICEBERG, A Novel Inhibitor of Interleukin-1 β converting enzyme. Annual MSTP Retreat, August 1999.

E.W. Humke, J. Ni, and V.M. Dixit. Isolation and Characterization of a New Caspase. *Molecular Mechanisms of Apoptosis Regulation: AACR Meeting*, Palm Springs, February 1998.

E.W. Humke, K. O'Rourke, and V.M. Dixit. Characterization of a conditional form of the death adapter molecule FADD generated by fusion to a modified estrogen receptor. *Programmed Cell Death Meeting: Cold Spring Harbor*, Fall 1997.

R.E. Majocha, S. Agrawal, **E. Humke**, J. Newton and C.A. Marotta. Reduction of APP Levels in PC12 Cells Treated with Antisense Oligonucleotides. *Fourth International Conference on Alzheimer's Disease and Related Disorders*. 1994.

R.E. Majocha, S. Agrawal, **E. Humke**, J. Tang, and C.A. Marotta. Influence of Amyloid Precursor Protein on Trophic Response of PC12 Cells to Nerve Growth Factor. *National Neuroscience Meeting*. 1994

D. Hoffman, X.O. Breakefield, M.P. Short, **E.W. Humke**, T. Nguyen, P. Aebischer. Transplantation of a polymer-encapsulated cell line Genetically engineered to release nerve growth factor. *Restorative Neurology and Neuroscience*, Vol. 4 No. 3. 1992