

Sample CV for Industry – All identifying information has been changed

Name

Email

Personal Address Line 1 • City, State, Zip Code • Phone Number

EDUCATION

Harvard University, Division of Medical Sciences, Boston, MA

- Ph.D. in Biochemistry and Molecular Pharmacology, Expected March 2013
- National Science Foundation Honorable Mention 2008

Swarthmore College, Swarthmore, PA

- B.A., Biology 2005

RESEARCH EXPERIENCE

Boston Children's Hospital, Boston, MA

Graduate Student with Dr. Elias T. Johansson, 2008-present

Genetic and genomic studies of ubiquitin-proteasome system activities in *S. cerevisiae*

- Examined transcriptional effects of the proteasome using microarray analysis to provide a genome-wide picture of chromatin binding and gene regulation.
- Executed genetic screen for suppressor of a mutant in the proteasome adaptor complex Cdc48^{Npl4Ufd1}.
- Characterized one of the isolated suppressors to reveal a function in sporulation, using biochemistry, cell biology and transcriptional profiling.

Yale University Medical School, New Haven, CT

Lab Manager with Dr. Bing Wong, 2005-2007

- Examined transcriptional regulation of the bile acid transporter Ntcp using reporter assays in cultured hepatocytes.
- Managed laboratory functions including safety, organization, ordering and scheduling.
- Trained new students and employees.

University of California San Francisco, San Francisco, CA

Research Assistant with Dr. Shona V. Ramapura, Summer 2004

- Analyzed encapsidation of HIV RNA using cell-free extract.

Université de Paris, Station Zoologique, Villefranche sur mer, France

Intern with Dr. Magali Canivet, 2003

- Used micromanipulation and microscopy to investigate early developmental stages of tunicate embryos.

Yale University Medical School, New Haven, CT

Howard Hughes Intern with Dr. Jane P. Angelique, Summer 2002

- Established method of PCR screening for NOD mice used in diabetes research.

SKILLS and TECHNIQUES

- Isolation of RNA and analysis by transcriptional profiling and Northern blot
- Chromatin immunoprecipitation and analysis on microarrays and by quantitative PCR
- Fluorescence microscopy
- Statistical analysis of microarray data
- Immunoprecipitation of complexes for identification by Mass Spectrometry
- Genetic screening and manipulations in budding yeast
- Mammalian cell culture

TEACHING and WRITING EXPERIENCE

Harvard University Medical School, Boston, MA

Editor, Biological and Biomedical Sciences Program Bulletin 2010-2015

- Participated in planning content; solicited, wrote and edited articles relevant to student life.

Mentor, Mentoring for Science program 2011, 2008

- Guided eighth-grade students to understanding of scientific method through molecular biology experiments and case-based learning.

Swarthmore College, Swarthmore, PA

Teaching Assistant, Embryology 2000

- Assisted in preparation and execution of laboratory section.
- Prepared and presented two class lectures.

ABSTRACTS

K.V. Thomas, J.M. O'Reilly, S. Kopp, and E.T. Johannson. The Proteasome and its Transcription Factor Substrate Have Overlapping Specificity in Gene Regulation. Abstracts of the Gordon Symposium on Ubiquitin and Signaling, 2012. Abstract 106.

K.V. Thomas, S. Gerling, and E.T. Johannson. The Npl4/Ufd1/Cdc48 Complex and Regulation of Membrane Composition. Abstracts of the American Society for Biochemistry and Molecular Biology, 2009. Abstract and Presentation 1615.

PUBLICATIONS

K.V. Thomas, A.L. Marcus, S. Gerling, L. Sing, and E.T. Johannson. The Yeast Arr4 Forms a Complex with Functions in Sporulation. In preparation.

K.V. Thomas, C.R. White, J.M. O'Reilly, S. Kopp, and E.T. Johannson. Genomic Localization of the Proteasome Demonstrates Multiple Levels of Gene Regulation. Under review.

A.L. Marcus, **K.V. Thomas**, S.P. Georgios, and E.T. Johannson. A subset of membrane-associated proteins is ubiquitinated in response to mutations in the endoplasmic reticulum degradation machinery. Proceedings of the National Academy of Sciences USA 2010; 98(16):12861-66.