

CURRICULUM VITAE

I. PERSONAL DATA

Mara C. Duncan
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Department of Biological Chemistry
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II. RESEARCH INTERESTS

Molecular mechanisms of membrane traffic
Development of chemical genetic approaches to study membrane traffic

III. TEACHING INTERESTS

Graduate or undergraduate Cell Biology, Genetics or Molecular Biology courses.

IV. EDUCATION AND RESEARCH EXPERIENCE

B.S. 1995 University of Washington, Seattle, Washington (Cell and Molecular Biology)
Undergraduate research advisor: Elton T. Young
Research topic: Genetic analysis of the swi/snf complex gene, *ADR6/SWI1*
PhD 2001 University of California, Berkeley, California (Molecular and Cell Biology)
Graduate research advisor: David G. Drubin
Dissertation title: Characterization of Two Activators of the Arp2/3 complex Involved in Endocytosis in the Yeast *Saccharomyces cerevisiae*
Postdoctoral Research 2001-present University of California, Los Angeles, California (Department of Biological Chemistry)
Research advisor: Gregory S. Payne
Research topics: Molecular Mechanisms of Membrane Traffic and Identification Small Molecule Inhibitors of Membrane Traffic

V. HONORS AND AWARDS

NIH NRSA Fellowship 2004-2007
David Sigman Poster Award Recipient 2005
American Cancer Society Postdoctoral Fellowship 2003-2004
Jonsson Comprehensive Cancer Center Postdoctoral Fellowship 2002-2003
National Science Foundation Pre-doctoral Fellowship 1995-1998
Graduated Magna Cum Laude, University of Washington 1995
Howard Hughes Medical Institute Undergraduate Research Fellowship 1993

VI. PUBLICATIONS

Duncan, M.C., Ho, D.G., Jung, M.S. and Payne G.S.(2005) Identification of novel inhibitors of membrane traffic by compound synthetic lethal analysis. In preparation.

Duncan, M.C. and Payne G.S.(2005) Functional analysis of clathrin and adaptor binding of Ent5 In preparation.

Costaguta, G., Duncan M.C. and Payne, G.S. (2005) GGA proteins and AP-1 act upstream of Ent3p and Ent5p *in vivo*. In preparation.

Duncan, M.C., and Payne, G.S. (2005) Protein Choreography. Nature 438:571-573.

Xie M.W., Jin F., Hwang H., Hwang S., Anand V., Duncan M.C., Huang J. (2005) Insights into TOR function and rapamycin response: chemical genomic profiling by using a high-density cell array method. Proc Natl Acad Sci USA 102:7215-7220.

Duncan, M.C. and Payne, G.S. (2005) An endocytic Prk-ing brake. Nature Cell Biol. 7:210 – 212.

Duncan, M.C. and Payne, G.S. (2003) ENTH/ANTH domains expand to the Golgi. Trends Cell Biol. 13: 211-215.

Duncan, M.C., Costaguta, G., and Payne, G.S. (2003) Yeast epsin-related Proteins Required for Golgi-endosome Traffic Define a γ -Adaptin-Ear Binding Motif. Nature Cell Biol., 5:77-81.

Rodal, A.A., Duncan, M.C. and Drubin D.G, (2002) Purification of Glutathione-S-Transferase Fusion Proteins from Yeast. Methods in Enzymology 351:168-72.

Duncan, M.C., Cope M.T.J.V., Goode, B.L., Wendland, B. and Drubin, D.G. (2001) Yeast Eps15-like endocytic protein, Pan1p, activates the Arp2/3 complex. Nature Cell Biol., 3:687-690.

VII. TEACHING EXPERIENCE

Instructor: Undergraduate Seminar: Great Ideas in Drug Discovery. U.C. Berkeley 1998

Teaching Assistant: Graduate Molecular Biology lab. U.C. Berkeley 1997
Teaching Assistant: General Genetics. U.C. Berkeley 1996

VIII. REFERENCES

Prof. Gregory S. Payne
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Prof. Jeremy W. Thorner
Professor of Biochemistry and Molecular Biology
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