

ALEXANDER C. THEOS

EDUCATION

- 1997-2002 Ph.D. Research (Cell Biology)
University of Cambridge, Department of Clinical Biochemistry, Cambridge, U.K.
Dissertation: Sorting of proteins to the melanosome in AP-3 mouse mutants *mocha* and *pearl*. Advisor: Dr. Margaret (Scottie) Robinson.
- 1994-1997 B.A. Hons. Natural Sciences.
St. John's College, University of Cambridge, Cambridge, U.K. Part II Zoology
(Cell and Developmental Biology).

PROFESSIONAL TRAINING

- 2007-present Assistant Professor, Department of Human Science, School of Nursing and Health Studies, Georgetown University.
- 2006-2007 Visiting Assistant Professor of Biology, Swarthmore College, Swarthmore, PA.
- 2002-2006 Postdoctoral Fellow, Department of Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA. Melanosome biogenesis.
Mentor: Dr. Michael S. Marks.

INVITED TALKS

- 2004 44th Annual Meeting of the American Society of Cell Biology, Washington, DC.
Minisymposium on Secretory Organelles and Regulated Exocytosis. "Distinct luminal determinants are responsible for multivesicular body sorting and morphogenetic function of melanosome constituent, Pmel17."
- 2000 Conference on Hermansky-Pudlak Syndrome, National Institutes of Health, Bethesda, MD. "Sorting of tyrosinase in *mocha* and *pearl* mice."

PUBLICATIONS

- Setty, S.R., Tenza, D., Truschel, S.T., Chou, E., Sviderskaya, E.V., **Theos, A.C.**, Lamoreux, M.L., Di Pietro, S.M., Starcevic, M., Bennett, D.C., Dell'Angelica, E.C., Raposo, G., and Marks, M.S. BLOC-1 is required for cargo-specific sorting from vacuolar early endosomes toward lysosome-related organelles. *Mol. Biol. Cell* 18: 768-780 (2007).
- Theos, A.C.**, Berson, J.F., Theos, S.C., Herman, K.E., Harper, D.C., Tenza, D., Sviderskaya, E. V., Lamoreux, M.L., Bennett, D.C., Raposo, G., and Marks, M.S. Dual loss of ER export and endocytic signals with altered melanosome morphology in the *silver* mutation of Pmel17. *Mol. Biol. Cell* 17: 3598-612 (2006).

- Theos, A.C.**, Truschel, S.T., Harper, D.C., Berson, J.F., Tenza, D., Thomas, P.C., Raposo, G., and Marks, M.S. A luminal domain-dependent pathway for sorting to intraluminal vesicles of multivesicular endosomes involved in organelle morphogenesis. *Dev. Cell* 10: 343-54 (2006).
- Salas-Cortes, L., Ye, F., Tenza, D., Wilhelm, C., **Theos, A.**, Louvard, D., Raposo, G., Coudrier, E. Myosin Ib modulates the morphology and the protein transport within multi-vesicular sorting endosomes. *J. Cell Sci.* 118: 4823-32 (2005).
- Theos, A.C.**, Tenza, D., Martina, J.A., Hurbain, I., Peden, A.A., Sviderskaya, E.V., Stewart, A., Robinson, M.S., Bennett, D.C., Cutler, D.F., Bonifacino, J.S., Marks, M.S., Raposo, G. Functions of Adaptor Protein (AP)-3 and AP-1 in Tyrosinase Sorting from Endosomes to Melanosomes. *Mol. Biol. Cell.* 16: 5356-72 (2005).
- Theos, A.C.**, Truschel, S.T., Raposo, G., Marks, M.S. The Silver locus product Pmel17/gp100/Silv/ME20: controversial in name and in function. *Pigment Cell Res.* 18:322-36 (2005).
- Berson, J.F., **Theos, A.C.**, Harper, D.C., Tenza, D., Raposo, G., Marks, M.S. Proprotein convertase cleavage liberates a fibrillogenic fragment of a resident glycoprotein to initiate melanosome biogenesis. *J. Cell Biol.* 161: 521-33 (2003).
- Marks, M.S., **Theos, A.C.**, Raposo, G. Melanosomes and MHC class II antigen-processing compartments: a tinted view of intracellular trafficking and immunity. *Immunol. Res.* 27: 409-26 (2003).

PROFESSIONAL AFFILIATIONS

American Society for Cell Biology, Association for Research in Vision and Ophthalmology, Sigma Xi.