

CURRICULUM VITAE

Name: Roberto Weigert

Address: Intracellular Membrane Trafficking Unit
Oral and Pharyngeal Cancer Branch
National Institute of Dental and Craniofacial Research
National Institutes of Health
Bldg. 30, Room 303A
Bethesda, MD 20892-4340
Ph: 301-496-9969
Fax: 301-496-1966
e-mail: weigertr@mail.nih.gov
Web Page: <http://www.nidcr.nih.gov/Research/Intramural/OralPharyngeal/IMTU.htm>

Education:

2000 Ph.D. Open University, London, UK
Sponsor Establishment: Consorzio Mario Negri Sud
1992 M.Sc. Chemistry, University of Catania, Italy

Professional experience:

2006-Present Chief, Intracellular Membrane Trafficking Unit,
Oral and Pharyngeal Cancer Branch, NIDCR, NIH
2001-2006 Research Fellow, Laboratory of Cell Biology, NHLBI-NIH
2000 – 2001 Post-doctoral Fellow, Laboratory of Molecular Neurobiology, Dept. of Cell
Biology and Oncology, Consorzio Mario Negri Sud
1994 - 1999 Pre-doctoral Fellow, Laboratory of Molecular Neurobiology, Dept. of Cell
Biology and Oncology, Consorzio Mario Negri Sud
1995 Special Volunteer, Cell Biology and Metabolism Branch, NICHD-NIH
1993-1994 Technical Brand Manager, Department of Research and Development, Procter &
Gamble, Italy

Grants and awards:

2007 Chesapeake Society for Microscopy Award
1996-1999 FORMEZ fellowship
Fellowship sponsored by the “Agenzia per il mezzogiorno” for the training of
young scientist coming from south Italy
1993 Consorzio Catania Ricerche Prize

- Prize for the most original thesis work leading to potential applications in microelectronics
1993 Accademia Gioenia Prize
Prize for the best thesis work in Microelectronics

Oral presentations at international meetings:

- 1999 BARS is an Acyltransferase Involved in Golgi Membrane Fission
39th American Society for Cell Biology Annual Meeting. Washington, D.C., USA
1998 Factors Controlling Golgi Tubules
100th Anniversary Conference: The Golgi complex. Pavia, Italy.
1996 Characterisation of an Endogeneous Mono ADP-ribosyl Transferase Stimulated by Brefeldin A
Meeting on Biological significance of Mono-ADP-ribosylation in Animal Tissues. Hamburg, Germany.

Professional memberships and associations:

- 2003-present Member of the board of the Chesapeake Microscopy Society
2003-present Member of the Foundation for Advanced Education in the Sciences
2001-present American Society of Cell Biology

Ad-hoc reviewer:

Journal of Cell Science
Journal of Biological Chemistry
Embo Journal
Molecular Biology of the Cell
Cell Motility and the Cytoskeleton
Traffic
Molecular Membrane Biology

Bibliography:

1. Scandurra A, Licciardello A, Torrasi A, **Weigert R**, Puglisi O. SNMS characterization of ion irradiated GaAs surfaces *Applied surface Science* 103: (1) 19-25, 1996.
2. Colanzi A., Mironov A., **Weigert R.**, Limina C., Flati S., Cericola C., Di Tullio G., Di Girolamo M., Corda D., De Matteis M.A. and Luini A. Brefeldin A-induced ADP-ribosylation in the structure and function of the Golgi complex. *Advanced in Experimental Medicine and Biology* 419: 331-335, 1997.
3. Silletta M.G., Di Girolamo M., Fiucci G., **Weigert R.**, Mironov A., De Matteis M.A., Luini A. and Corda D. Possible role of BARS-50, a substrate of brefeldin A-dependent mono-ADP-ribosylation, in intracellular transport. *Advanced in Experimental Medicine and Biology Vol.* 419: 321-330, 1997.

4. **Weigert R.**, Colanzi A., Limina C., Cericola C., Di Tullio G., Mironov A. Luini A. and De Matteis M.A. Characterization of an endogenous mono ADP-ribosyl transferase stimulated by brefeldin A. *Advanced in Experimental Medicine and Biology* Vol. 419: 337-342, 1997.
5. **Weigert R.**, Colanzi A., Mironov A., Buccione R., Cericola C., Sciulli M.G., Santini G., Flati S., Fusella A., Donaldson J.G., Di Girolamo M., Corda D., De Matteis M.A. and Luini A. Characterization of chemical inhibitors of the brefeldin-a-activated mono-adp-ribosylation. *J. Biol. Chem.* 272: 14200-14207, 1997.
6. Mironov A., Colanzi A., Silletta M.G., Fiucci G., Flati S., Fusella A., Polishchuk R., Mironov A.Jr., Di Tullio G., **Weigert R.**, Malhotra V., Corda D., De Matteis M.A. and Luini A. Role of NAD⁺ and ADP-ribosylation in the maintenance of the Golgi structure. *J. Cell Biol.* 139:1109-1118, 1997.
7. Silletta M.G., Colanzi A., **Weigert R.**, Di Girolamo M., Santone I., Fiucci G., Mironov A., De Matteis M.A., Luini A. and Corda D. Role of the brefeldin A-dependent ADP-ribosylation in the control of intracellular membrane transport. *Mol. Cell. Biochem.* 193: 43-51, 1999.
8. **Weigert R.**, Silletta M.G., Spanò S., Turacchio G., Cericola C., Colanzi A., Mancini R., Polishchuk E.V., Salmona M., Facchiano F., Burger K.N.J., Mironov A., Luini A., and Corda D. CtBP/Bars induces fission of Golgi membranes by acylating lysophosphatidic acid. *Nature* 402: 429-433, 1999.
9. Naslavsky N., **Weigert R.** and Donaldson J.G. Convergence of non-clathrin and clathrin-derived endosomes requires ARF6 inactivation and phosphoinositide turnover. *Mol. Biol. Cell* 14(2):417-431, 2003.
10. Altan-Bonnet N., Phair R.D., Polishchuk R.S., **Weigert R.** and Lippincott-Schwartz J. Arf1 inactivation is necessary for mitotic Golgi disassembly, chromosome segregation and cytokinesis. *Proc Natl Acad Sci U S A.* 100(23):13314-9, 2003.
11. Naslavsky N.*, **Weigert R.*.** and Donaldson J.G. Characterization of a Non-Clathrin Endocytic Pathway: Membrane Cargo and Lipid Requirements. *Mol. Biol. Cell* 15(8), 3542-3552, 2004. *Equal contribution
12. **Weigert R.**, Yeung A.C., Li J., and Donaldson J.G. Rab22a Regulates the Recycling of Membrane Proteins Internalized Independently of Clathrin. *Mol. Biol. Cell* 15(8), 3758-3770, 2004.
13. Donaldson J.G., Honda A., and **Weigert R.** Multiple Activities for Arf1 at the Golgi Complex. *Biochim Biophys Acta* 1744(3):364-73, 2005.
14. **Weigert R.** and Donaldson J.G. Fluorescent microscopy-based assays to study the role of Rab22a in clathrin-independent endocytosis. *Methods in Enzymology* 403:243-253, 2005.

Selected abstracts:

Weigert R., and Donaldson JG The small GTP-ase Rab22a Regulates the Recycling of Membrane Proteins Internalized Independently of Clathrin Abstract in *Molecular Biology of the cell* Vol 15 (suppl) Nov 2004

Weigert R, Donaldson JG The small GTP-ase Rab22a is associated with the Clathrin-independent ARF6-associated pathway Abstract in Molecular Biology of the cell Vol 14 (suppl) Nov 2003

Weigert R, Backer JM, Donaldson JG In vitro characterization of heterotypic fusion between non-clathrin and clathrin-derived endosomes Abstract in Molecular Biology of the cell Vol 13 (suppl) Nov 2002

Weigert R, Longo D, Burger KNJ, Simone MR, Turacchio G, Corda D, Luini A In vitro and in vivo analysis of the BARS/CtBP3-driven fission of Golgi membranes Abstract in Molecular Biology of the cell Vol 11 (suppl) Dec 2000

Longo, D., Burger, K.N.J., Turacchio, G., Simone, M., Spano',S., Corda, D., Luini, A., and **Weigert R.** Minimal components for CtBP3/BARS-driven fission of Golgi membranes. In: ELSO meeting Geneve September 2-6, 2000

Weigert R., Silletta M.G., Turacchio G., Spano' S., Burger K.N.J., Corda D., and Luini A. BARS is an acyltransferase involved in Golgi membrane fission. Abstract in Molecular Biology of the cell Vol. 10 (suppl.) Dec. 1999

Weigert R., Silletta M.G., Spano' S., Turacchio G., Cericola C., Colanzi A., Polishchuk E., Mironov A., Luini A., and Corda D. BARS a novel protein mediating membrane fission at the Golgi tubular networks. Abstract in Molecular Biology of the cell Vol. 10 (suppl.) Dec. 1999

Weigert R., Silletta M. G., Turacchio G., Spanò, Salmona M., Fusella A., Mironov A. A., Corda D. and Luini A. Factors controlling Golgi tubules. 100th Anniversary Conference: The Golgi Conference, Pavia 19-23 Settembre 1998

Weigert, R., Polishchuk,R., Polishchuk,E., Turacchio,G., Mironov,A., and Luini,A. Characterization and morphometric analysis of isolated golgi complex from rat liver by the negative staining technique. Abstract in Molecular Biology of the cell Vol. 8 (suppl.) Dec. 1997

Weigert, R., Ktistakis, N., Roth, M., Fusella, A. Luini, A., and Mironov, A. The role of brefeldin a-dependent adp-ribosylation in bfa-resistant mutants of CHO cells. Abstract in Molecular Biology of the cell Vol. 7 (suppl.) Dec. 1996

Mironov, A., **Weigert, R.** Colanzi, A., Flati, S., Di Tullio, G., Fusella, A., Di Girolamo, M., Corda, D., De Matteis, M.A. and Luini, A. Role of the Brefeldin A-sensitive ADP-Ribosyl transferase in the structure of the Golgi Complex. Abstract in Molecular Biology of the cell Vol. 6 (suppl.) Nov. 1995