

**Address:**

MCD Biology, University of Colorado, Boulder, Colorado 80309-0347  
Telephone: (303) 735-0179  
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**Education:**

Texas Tech University, B.S., Biology, 1991  
University of California, San Diego, Ph.D., Biology, 1996

**Research & Professional Experience:**

1991-96: Graduate Student with Dr. Ian Trowbridge, The Salk Institute, San Diego, California  
1996-2000: Postdoc with Dr. Scott Emr, University of California, San Diego  
2000-07: Assistant Professor, MCD Biology, University of Colorado, Boulder  
2007-17: Associate Professor, MCD Biology, University of Colorado, Boulder  
2017-present: Professor, MCD Biology, University of Colorado, Boulder

**Academic Honors:**

1991: Highest Ranking Graduate, College of Arts & Sciences, Texas Tech University  
1994-96: Chapman Charitable Trust Graduate Research Fellowship, The Salk Institute  
1997-2000: Postdoctoral Fellowship, American Cancer Society  
2003-06: Arnold & Mabel Beckman Foundation Young Investigator Award

**Research Grant Support:**

Current:

1. Agency: NIH/NIGMS  
Grant Number: R01 GM111335  
Title: Regulation of ESCRT-III Activity in Yeast  
Role: PI  
Duration: 09/01/14-04/30/23 (no-cost extension through 04/30/24)  
Annual direct costs: \$215,270
2. Agency: NIH/NIGMS  
Grant Number: R01 GM130644  
Title: Mechanisms of AP-3 function in vesicle formation and Golgi maturation  
Role: co-PI (PI: Alex Merz, Univ. of Washington-Seattle)  
Duration: 09/12/19-07/31/23 (no-cost extension through 07/31/24)  
Annual direct costs requested to Odorizzi: \$161,600
3. Agency: NIH/NIGMS  
Grant Number: R35 GM149202  
Title: Membrane trafficking to lysosomes  
Role: PI  
Duration: 05/04/23-04/30/28  
Annual direct costs: \$375,000

Pending:

1. Agency: NSF/Systems and Synthetic Biology  
Proposal Number: 2200330  
Title: DESIPHER: Deciphering Phosphoglycerolipid Signaling and CPSFL1-Dependent Regulation of Carotenogenic Metabolic Flux in Photosynthetic Eukaryotes  
Role: co-PI (PI: José Garcia Cerdan, Univ. Of Colorado-Boulder)  
Requested Amount (direct plus indirect): \$1,370,019

Past:

1. Agency: American Cancer Society  
Grant Number: RSG-02-147-01-CSM  
Title: MVB vesicle budding  
Role: PI  
Duration: 07/01/02-06/30/07  
Annual Direct Costs: \$200,000
2. Agency: Beckman Foundation  
Grant Number: N/A (Young Investigator Award)  
Title: Structural & Biochemical Dissection of MVB Vesicle Formation  
Role: PI  
Duration: 09/01/03-08/31/07  
Total Direct Costs: \$250,000
3. Agency: NIH/NIGMS  
Grant Number: 5R01GM065505-09  
Title: Molecular analysis of multivesicular body formation  
Role: PI  
Duration: 04/01/02-08/31/14  
Annual direct costs: \$196,020 (FY 2013-14)
4. Agency: NIH/NIGMS  
Number: 3R01GM065505-09S1 (ARRA-funded Supplement to 5R01GM065505-09)  
Title: Molecular analysis of multivesicular body formation  
Role: PI  
Duration: 09/30/09-08/31/11  
Total direct costs: \$173,935
5. Agency: NIH/NINDS  
Grant Number: 5R03NS076839-02  
Title: Mechanistic basis for endosomal dysfunction in frontotemporal dementia linked to chromosome 3  
Role: PI  
Duration: 09/01/11-08/31/14  
Total direct costs: \$100,000

**Teaching Experience:**

Non-Classroom Teaching:

1. Mentor for Undergraduate Research Students (\* denotes Honors Thesis): David Mellman (2001), Axel Laurer (2001), Drew Goldberg (2001), Sarah Altschuler (2002), Johanna Weigert (2002-03), Doug Burch (2003-04), Jeff Kimes (2003-04), Kristy Freeman (2003-04), Hunter Moore\* (2004-05), Caitlin

- White-Root (2004-07), Sabina Abke (2004-05), Derek Hagood (2005), Alisa Yamasaki (2005), Michael Kaempf (2006), Justin Hiezer (2006-07), Nicole Stutzman (2006-07), Sara Smedra (2006-07), Marty Guess (2007-08), Katie Flynn (2007), Tim Hall (2007-08), Jonathan Troncoso (2007-08), Matt Miller (2008), Ashley Grimaldi (2008-10), Jill Terry (2008-10), Amy Lassen (2008-10), Ian Smith\* (2009-11), David Seghetti-Hebble (2009-10), Niles Sulkko\* (2010-13), Christine Crotzer (2010-13), Dustin Chernick\* (2010-12), Kate Jendersee (2011), Colin Hanson (2012-13), Paige Radtke (2012-15), Troy Coody (2013-2016), Joshua Ivie (2014-15), Elisabeth Murphy (2016-2018), Chengrui Qui (2017-2019), Mukda Chabairum (2018-19), Fernando Hern Munoz (2019-2021), Madeleine Cohen (2020), Eva Kareus (2021-2022), Ben Nickell (2022-2023), Ayla Nack (2022-present), Devin Jordan (2024-present)
2. Principal Dissertation Advisor for Ph.D. Students: Matthew McNatt (2002-07), Daniel Nickerson (2003-08), Caleb Richter (2004-09), Megan Wemmer (2005-11), Tess Shideler (2008-13), Natalie Johnson (2011-16), Zachary Wilson (2013-18), Dalton Buysse (2015-20), Mitchell Leih (2020-present), Tanner Peltier (2022-present), Michaela McCright (2023-present)
  3. Principal Thesis Advisor for M.S. Students: Julie Weidner (2005-07), Daniel Ahrens (2019-21)
  4. Mentor for Postdoctoral Research Associates: Sujatha Sitaraman (2002-05), Marisa Otegui (2003-04), Victoria Kelley (2004-06), Matthew Russell (2005-12)
  5. Rotation Advisor for Ph.D. Students: Kellie Hazell, Kelly Geiger (2000); Matthew McNatt (2001); Monica Darland, Liang Zhang, Daniel Nickerson (2002); Caleb Richter, Aaron Donner, Tom Armel (2003); Megan Wemmer, Christopher Wrobel (2004); Julie Weidner, Ryan Henry (2005); Ian Ross, Amber Bilak, Norma Sanchez (2006); Tess Shideler (2007); Kyle Webster (2008); Jonathan Langberg (2009); Natalie Johnson, Audrey Audetat (2010); Christopher Bennett, Amber Sorenson (2011), Alokandanda Mukherjee (2012), Zachary Wilson (2013), Alex Paine (2014), Dalton Buysse (2014), Haoxi Wu (2015), Jessie Bacha (2016), Tuimkan Nishanova (2016), Daniel Ahrens (2018), Bruce Proctor Jr III (2019), Mitchell Leih (2020), Olivia DelleTorri (2021), Ryan Sayegh (2021), Tanner Peltier (2022), Daniel Hassell (2022), Michaela McCright (2023), Waverly Gebhardt (2023)
  6. Member of Dissertation Committee for Ph.D. Students: Jay Parrish (2001-02), Dennis Eastburn (2001-04), Bryon Donohoe (2001-05), Mark Robida (2002-06), Kristina Murphy (2003-05), Dong Kyun Woo (2003-06), Liang Zhang (2004-08), Monica Darland (2004-08), Evan Trudeau (2004-07), Chandra Kilburn (2006-08), Toby Franks (2006-09), Stacy Erickson (2007-09), Katherine Wright (2007-12), Nesia Zurek (2008-11), Amber English (2008-12), Julia Cope (2008-11), Pippa Cospers (2008-11), James Mapes (2009-10), Christopher Wrobel (2009-11), Ian Ross (2009-12), Jonathan Friedman (2009-12), Michael Sfregola (2009-13), Rencheng Wang (2009-14), Eric Davis (2009-15), Sarah McQuate (2011-14), Ashley Rowland (2011-15), Jennifer Avena (2012-14), Amber Sorenson (2012-17), Kevin Gunderson (2013-17), Bridgette Menasche (2013-2018), Melissa Phillips (2013-2018), Haoxi Wu (2017-2020), Ishara Datta (2018-2022), Jonathan Striepen (2018-2022), Trisha Nguyen (2020-2023)
  7. Mentor for high school students: Aparajita Kaphle (2018), Anastasia Diener (2021-2023)

#### Classroom Teaching:

2001(F)	MCDB3120: Cell Biology; Undergraduate Course; 13 lecture hrs; 178 students
2002(S)	MCDB5210: Cell Structure/Function; Graduate Course; 3.75 lecture hrs; 9 students
2002(F)	MCDB3120: Cell Biology; Undergraduate Course; 19 lecture hrs; 167 students
2003(S)	MCDB5210: Cell Structure/Function; Graduate Course; 5 lecture hrs; 15 students
2003(F)	MCDB3120: Cell Biology; Undergraduate Course; 35 lecture hrs; 175 students
2004(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 12 students
2004(F)	MCDB3120: Cell Biology; Undergraduate Course; 40 lecture hrs; 209 students
2005(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 17 students
2005(F)	MCDB3120: Cell Biology; Undergraduate Course; 45 lecture hrs; 209 students
2006(S)	MCDB5210: Cell Structure/Function; Graduate Course; 4 lecture hrs; 18 students

	CHEM5801: Adv Signal Transduction; Graduate Course; 2.5 lecture hrs; 20 students
2006(F)	MCDB3120: Cell Biology; Undergraduate Course; 45 lecture hrs; 219 students
2007(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 22 students
2007(F)	MCDB3120: Cell Biology; Undergraduate Course; 22 lecture hrs; 241 students
2008(S)	MCDB5210: Cell Structure/Function; Graduate Course; 3.75 lecture hrs; 10 students
	CHEM5801: Adv Signal Transduction; Graduate Course; 2.5 lecture hrs; 19 students
2008(F)	MCDB3120: Cell Biology; Undergraduate Course; 23 lecture hrs; 215 students
	MCDB5220: Molecular Genetics; Graduate Course; 22 lecture hrs; 12 students
2009(S)	MCDB5210: Cell Structure/Function; Graduate Course; 3.75 lecture hrs; 11 students
2009(F)	MCDB3120: Cell Biology; Undergraduate Course; 23 lecture hrs; 215 students
	MCDB5220: Molecular Genetics; Graduate Course; 22 lecture hrs; 14 students
2010(S)	MCDB5210: Cell Structure/Function; Graduate Course; 3.75 lecture hrs; 14 students
2011(S)	MCDB5210: Cell Structure/Function; Graduate Course; 3.75 lecture hrs; 11 students
	MCDB3145: Molecular Cell Biology II; Undergraduate Course; 23 lecture hrs; 178 students
2011(F)	MCDB3135: Molecular Cell Biology I; Undergraduate Course; 45 lecture hrs; 240 students
2012(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 15 students
2012(F)	MCDB3135: Molecular Cell Biology I; Undergraduate Course; 45 lecture hrs; 247 students
2013(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 13 students
2013(F)	MCDB3135: Molecular Cell Biology I; Undergraduate Course; 45 lecture hrs; 275 students
2014(S)	MCDB5210: Cell Structure/Function; Graduate Course; 2.5 lecture hrs; 10 students
2014(F)	MCDB3135: Molecular Cell Biology I; Undergraduate Course; 45 lecture hrs; 209 students
	MCDB5230: Gene Expression; Graduate Course; 2.5 lecture hrs; 14 students
2016(S)	MCDB3135: Molecular Cell Biology I; Undergraduate Course; 18 lecture hrs; 96 students
2017(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 197 students
2017(F)	MCDB5230: Gene Expression; Graduate Course; 2.5 lecture hrs; 10 students
2018(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 184 students
	CHEM5801: Adv Signal Transduction; Graduate Course; 2.5 lecture hrs; 20 students
2019(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 181 students
	MCDB5230: Gene Expression; Graduate Course; 2.5 lecture hrs; 15 students
2020(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 191 students
	MCDB5230: Gene Expression; Graduate Course; 4 lecture hrs; 6 students
2021(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 146 students
	MCDB5230: Gene Expression; Graduate Course; 4 lecture hrs; 9 students
2022(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 214 students
	BCHM5801: Adv Signal Transduction; Graduate Course; 2.5 lecture hrs; 20 students
2023(S)	MCDB2150: Principles of Genetics; Undergraduate Course; 45 lecture hrs; 161 students

### Presentations at National Scientific Meetings:

2001	Yeast Cell Biology Meeting; Cold Spring Harbor Laboratory, NY ( <a href="#">poster</a> )
2002	Gordon Research Conference–Lysosomes & Endocytosis; Proctor Academy, NH ( <a href="#">poster</a> )
2003	Beckman Young Investigator Symposium; Beckman Center; Irvine, CA ( <a href="#">poster</a> ) Yeast Cell Biology Meeting; Cold Spring Harbor Laboratory, NY ( <a href="#">speaker</a> )
2004	Gordon Research Conference–Lysosomes & Endocytosis; Proctor Academy, NH ( <a href="#">session chair</a> ) Gordon Research Conference–Lysosomes & Endocytosis; Proctor Academy, NH ( <a href="#">poster</a> ) Beckman Young Investigator Symposium; Beckman Center; Irvine, CA ( <a href="#">poster</a> ) ASCB annual meeting; Washington, D.C. ( <a href="#">poster</a> )
2005	Keystone Symposium–Ubiquitin & Signaling; Taos, NM ( <a href="#">speaker</a> ) Gordon Research Conference–Molecular Membrane Biology; Proctor Academy, NH ( <a href="#">speaker</a> ) Beckman Young Investigator Symposium; Beckman Center; Irvine, CA ( <a href="#">poster</a> )

- 2006 FASEB Conference–Ubiquitin & Cellular Regulation; Vermont Academy, VT (poster)  
 Beckman Young Investigator Symposium; Beckman Center; Irvine, CA (speaker)  
 ASCB annual meeting; San Diego, CA (poster)
- 2007 Mini-symposium on Membrane Trafficking; University of Utah, UT (speaker)
- 2008 ASCB annual meeting; San Francisco, CA (Mini-symposium co-chair)
- 2009 Yeast Cell Biology Meeting; Cold Spring Harbor Laboratory, NY (speaker)
- 2010 Electron Microscopy Mini-symposium; University of Liverpool, UK (speaker)  
 ASBMB Special Symposium–Biochemistry & Cell Biology of ESCRTs; Snowbird, UT (speaker)
- 2015 ASCB annual meeting, San Diego, (Mini-symposium speaker (presented by Natalie Johnson))
- 2018 ASCB annual meeting, San Diego, (Micro-symposium speaker)
- 2020 The Allied Genetics Conference, Washington, D.C. (Virtual), (Dynamics and Regulation of Cellular Organization speaker)
- 2022 Genetics Society of America, Yeast Genetics, UCLA; Session: Membrane Trafficking, Organelles, and Intracellular Signaling, speaker (presentation by Mitchell Leih)

### Invited Seminars at Other Institutions:

- 2001 University of Colorado Health Sciences Center
- 2002 Brandeis University
- 2002 University of Wyoming  
 University of California, Santa Cruz
- 2004 University of Colorado Health Sciences Center
- 2006 University of Wisconsin, Madison  
 University of Denver
- 2010 University of Colorado Health Sciences Center
- 2014 Indiana University, Bloomington
- 2016 University of Georgia, Athens
- 2018 Colorado State University
- 2019 University of Wyoming

### Service:

#### MCDB Department:

- Academic Program Review Procedures Committee, Member (2003)
- Academic Review & Planning Advisory Committee, Member (2011)
- COGSA (Committee for Graduate Student Affairs), Member (2004-07; 2011-12), Chair (2007-10)
- Comps (Graduate Student Comprehensive Exam) Committee, Member (2004-06)
- Curriculum Review Committee, Member (2014-15)
- Executive Committee, Member (2007-10; 2017-2023)
- Faculty Evaluation Committee, Member (2013-15; 2016-17)
- Faculty Search Committee, Member (2001-02, 2003-04, 2006-07, 2022-23)
- Graduate Admissions, Chair (2012-13), member (2023-24)
- Instructor Hiring Committee (Pam Harvey replacement) (2023)
- Instructor Hiring Committee (Jennifer Martin replacement) (2023-24)
- Junior Faculty Mentoring Committee for Gia Voeltz, Member (2007-12)
- Junior Faculty Mentoring Committee for Jingshi Shen, Chair (2008-14)
- Junior Faculty Mentoring Committee for Robin Dowell, Member (2010-16)
- Junior Faculty Mentoring Committee for Soyeon Park, Member (2013-2015)
- Peer Teaching Observation Committee (2017-present)

PUEC (Primary Unit Evaluation Committee) for Michael Stowell promotion to Assistant Professor with Tenure (2008)  
PUEC for Gia Voeltz promotion to Assistant Professor with tenure, Chair (2012)  
PUEC for Jingshi Shen promotion to Assistant Professor with tenure (2014)  
PUEC for Will Old promotion to Assistant Professor with tenure, Chair (2019)  
PUEC for Corrie Detweiler promotion to Professor (2019)  
Retreat Committee, Co-Chair (2003, 2005)  
Seminars Committee, Co-Chair (2001-04)  
UGCOM (Committee for Undergraduate Student Affairs), Member (2013-15), Chair (2017-2023)

College of Arts & Sciences:

Arts & Sciences Council, Member (2012-15)  
Arts & Sciences Council Planning Committee (2013-15; chair 2013-14)  
Arts & Sciences Council Executive Committee, Member (2013-15)

University of Colorado:

Radiation Safety Committee, Member (2003-present) and Chair (2014-present)  
Vice Chancellor's Advisory Committee, Member (2018-2020)  
RCR (Responsible Conduct in Research) Faculty Discussant on Research Misconduct (09/24/2020)  
CU Boulder Standing Committee on Research Misconduct (SCRM) Investigation Committee, Ad hoc (2021-22)

Scientific Community:

American Cancer Society, Cell Structure & Metastasis study section, member (2007-12)  
American Cancer Society, Cell Structure & Metastasis study section, Co-Chair (06/2010)  
National Institutes of Health, Center for Scientific Review, Study Section Ad Hoc member: Membrane Biology & Protein Processing (03/2010)  
Cancer Research UK, Ad-hoc peer reviewer (2006, 2007)  
The Wellcome Trust, Ad hoc peer reviewer (2006-07, 2009)  
Biotechnology & Biological Sciences Research Council, Ad-hoc peer reviewer (2006-07)  
ASCB Women in Cell Biology Committee, Career Discussion & Mentoring Roundtables, Table Leader, 2011 ASCB Annual Meeting, Denver, CO  
National Institutes of Health, Center for Scientific Review, Study Section Ad Hoc member: Fellowship – Cell Biology, Developmental Biology, and Bioengineering (07/2014, 03/2015, 11/2015)  
National Institutes of Health, Center for Scientific Review, Study Section Ad Hoc member: FZRG1 CB P 40P Program Project on Cell Division (07/2016)  
Peer Reviewer for numerous scientific journals  
Guest Editor, eLife (2019)  
External reviewer for Chris Brett promotion to Professor at Concordia University (2019)  
Conference Organizer, Rocky Mountain Yeast Meeting (2020)  
External Reviewer, Departmental Program Review, Department of Molecular Biology, University of Wyoming (2021)

Community Service within Boulder County:

Angevine Middle School, Lafayette, CO – presentation to 7th grade science class taught by Jennifer Skrobela (12/20/2023)

**Publications:**

1. Odorizzi, C.G., Trowbridge, I.S., Xue, L., Hopkins, C.R., Davis, C.D., & Collawn, J.F. (1994) Sorting signals in the MHC class II invariant chain cytoplasmic tail & transmembrane region determine trafficking to an endocytic processing compartment. *J. Cell Biol.* 126, 317-30.
2. Odorizzi, G., & Trowbridge, I.S. (1994) Recombinant Rous sarcoma virus vectors for avian cells. *Methods Cell Biol.* 43, 79-97.
3. Odorizzi, G., Pearce, A., Domingo, D., Trowbridge, I.S., & Hopkins, C.R. (1996) Apical & basolateral endosomes of MDCK cells are interconnected & contain a polarized sorting mechanism. *J. Cell Biol.* 135, 139-52.
4. Odorizzi, G., & Trowbridge, I.S. (1997) Structural requirements for basolateral sorting of the sorting of the human transferrin receptor in the biosynthetic & endocytic pathways of Madin Darby canine kidney cells. *J. Cell Biol.* 137, 1255-64.
5. Odorizzi, G., & Trowbridge, I.S. (1997) Structural requirements for major histocompatibility complex class II invariant chain trafficking in polarized Madin-Darby canine kidney cells. *J. Biol. Chem.* 272, 11757-62.
6. Cowles, C.R.\*, Odorizzi, G.\*, Payne, G.S., & Emr, S.D. (1997) The AP-3 adaptor complex is essential for cargo-selective transport to the yeast vacuole. *Cell* 91, 109-18. \*co-first authors
7. Gibson, A., Futter, C.E., Maxwell, S., Allchin, E.H., Shipman, M., Kraehenbuhl, J.P., Domingo, D., Odorizzi, G., Trowbridge, I.S., & Hopkins, C.R. (1998) Sorting mechanisms regulating membrane protein traffic in the apical transcytotic pathway of polarized MDCK cells. *J. Cell Biol.* 143, 81-94.
8. Futter, C.E., Gibson, A., Allchin, E.H., Maxwell, S., Ruddock, L.J., Odorizzi, G., Domingo, D., Trowbridge, I.S., & Hopkins, C.R. (1998) In polarized MDCK cells basolateral vesicles arise from clathrin-gamma-adaptin-coated domains on endosomal tubules. *J. Cell Biol.* 141, 611-23.
9. Odorizzi, G., Babst, M., & Emr, S.D. (1998) Fab1p PtdIns(3)P 5-kinase function essential for protein sorting in the multivesicular body. *Cell* 95, 847-58.
10. Odorizzi, G., Cowles, C.R., & Emr, S.D. (1998) The AP-3 complex: a coat of many colours. *Trends Cell Biol.* 8, 282-8.
11. Odorizzi, G., Babst, M., & Emr, S.D. (2000) Phosphoinositide signaling & the regulation of membrane trafficking in yeast. *Trends Biochem. Sci.* 25, 229-35.
12. Babst, M., Odorizzi, G., Estepa, E.J., & Emr, S.D. (2000) Mammalian tumor susceptibility gene 101 (TSG101) & the yeast homologue, Vps23p, both function in late endosomal trafficking. *Traffic* 1, 248-258.
13. Darsow, T., Odorizzi, G., & Emr, S.D. (2000) Invertase fusion proteins for analysis of protein trafficking in yeast. *Methods Enzymol.* 327, 95-106.
14. Katzmann, D.J., Odorizzi, G., & Emr, S.D. (2002) Receptor downregulation & multivesicular-body sorting. *Nat. Rev. Mol. Cell Biol.* 3, 893-905.
15. Odorizzi, G., Katzmann, D.J., Babst, M., Audhya, A., Emr, S.D. (2003) Bro1 is an endosome-associated protein that functions in the MVB pathway in *Saccharomyces cerevisiae*. *J Cell Sci.* 116, 1893-903.
16. Luhtala, N., & Odorizzi, G. (2004) Bro1 coordinates deubiquitination in the multivesicular body pathway by recruiting Doa4 to endosomes. *J. Cell Biol.* 166, 717-29.
17. Kim, J., Sitaraman, S., Hierro, A., Beach, B.M., Odorizzi, G., & Hurley, J.H. (2005) Structural basis for endosomal targeting by the Bro1 domain. *Dev. Cell* 8, 937-47.
18. Nickerson, D.P., West, M., & Odorizzi, G. (2006) Did2 coordinates Vps4-mediated dissociation of ESCRT-III from endosomes. *J. Cell Biol.* 175, 715-20.
19. Russell, M.R.G., Nickerson, D.P., & Odorizzi, G. (2006) Molecular mechanisms of late endosome morphology, identity, & sorting. *Curr. Opin. Cell Biol.* 18, 422-28.
20. Odorizzi, G. (2006) The multiple personalities of Alix. *J. Cell Sci.* 19, 3025-32.

21. McNatt, M.W., McKittrick, I.B., West, M., & Odorizzi, G. (2007) Direct association with Rsp5 mediates ubiquitin-independent sorting of Sna3 via the multivesicular body pathway. *Mol. Biol. Cell.* 18, 697-706.
22. Richter, C.M., West, M., & Odorizzi, G. (2007) Dual mechanisms specify Doa4-mediated deubiquitination in the multivesicular body pathway. *EMBO J.* 26, 2454-2464.
23. Haas, T.J., Sliwinski, M.K., Martínez, D.E., Preuss, M., Ueda, T., Nielsen, E., Odorizzi, G., & Otegui, M.S. (2007) The Arabidopsis AAA ATPase SKD1 is involved in multivesicular endosome function & interacts with LIP5. *Plant Cell* 19, 1295-1312.
24. Nickerson, D.P., Russell, M.R.G., & Odorizzi, G. (2007) A concentric circle model of multivesicular body cargo sorting. *EMBO Rep.* 8, 644-650.
25. Odorizzi, G., & Rehling, P. (2009) Membranes & organelles. *Curr. Opin. Cell Biol.* 21:481-83.
26. Nickerson, D.P., West, M., Henry, R., & Odorizzi, G. (2010) Regulators of Vps4 ATPase activity at endosomes differentially influence the size & rate of formation of intraluminal vesicles. *Mol. Biol. Cell* 21:1023-32.
27. Wemmer, M., Azmi, I., West, M., Davies, B., Katzmann, D., & Odorizzi, G. (2011) Bro1 binding to Snf7 regulates ESCRT-III membrane scission activity in yeast. *J. Cell Biol.* 192:295-306.
28. McMurray, M.A., Stefan, C.J., Wemmer, M., Odorizzi, G., Emr, S.D., & Thorner, J. (2011) Genetic interactions with mutations affecting septin assembly reveal ESCRT functions in budding yeast cytokinesis. *Biol. Chem.* 392:699-712.
29. Kallay, L.M., Brett, C.L., Tukaye, D.N., Wemmer, M.A., Chyou, A., Odorizzi, G., & Rao, R. (2011) Endosomal Na<sup>+</sup>(K<sup>+</sup>)/H<sup>+</sup> exchanger Nhx1/Vps44 functions independently & downstream of multivesicular body formation. *J. Biol. Chem.* 286:44067-77.
30. Hurley, J.H., & Odorizzi, G. (2012) Get on the exosome bus. *Nat. Cell Biol.* 14:654-5.
31. Russell, M.R., Shideler, T., Nickerson, D.P., West, M., & Odorizzi, G. (2012) Class E compartments form in response to ESCRT dysfunction in yeast due to hyperactivity of the Vps21 GTPase. *J. Cell Sci.* 125:5208-20.
32. Richter, C.M., West, M., & Odorizzi, G. (2013) Doa4 function in ILV budding is restricted through its interaction with the Vps20 subunit of ESCRT-III. *J. Cell Sci.* 126:1881-90.
33. Babst, M., & Odorizzi, G. (2013) The balance of protein expression & degradation: an ESCRTs point of view. *Curr. Opin. Cell Biol.* 25:489-94.
34. Chi, R., Liu, J., West, M., Wang, J., Odorizzi, G., & Burd, C.G. (2014) Fission of SNX-BAR-coated endosomal retrograde transport carriers is promoted by the dynamin related protein Vps1. *J. Cell Biol.* 204:793-806.
35. Odorizzi, G. (2014) ESCRTs take on a job in surveillance. *Cell* 159:240-41.
36. Mageswaran, S.K., Johnson, N.K., Odorizzi G.\*, & Babst M.\* (2015) Constitutively active ESCRT-II suppresses the MVB sorting phenotype of ESCRT-0 or ESCRT-I mutants. *Mol. Biol. Cell* 26:554-68.  
\*G.O. and M.B. are both corresponding authors
37. Shideler, T., Nickerson, D.P., Merz, A.J., & Odorizzi, G. (2015) Ubiquitin binding by the CUE domain promotes endosomal localization of the Rab5 GEF Vps9. *Mol. Biol. Cell* 26:1345-56.
38. Odorizzi, G. (2015) Membrane manipulations by the ESCRT machinery. *F1000Research* 4 (F1000 Faculty Rev):516.
39. Johnson, N., West, M., and Odorizzi, G. (2017) Regulation of yeast ESCRT-III membrane scission activity by the Doa4 ubiquitin hydrolase. *Mol. Biol. Cell*, 28:661-72.
40. Wilson, Z.N., Scott, A.L., Dowell, R.D., and Odorizzi, G. (2018) PI(3,5)P<sub>2</sub> controls vacuole potassium transport to support cellular osmoregulation. *Mol. Biol Cell*, 29:1718-31.
41. Buysse, D., Pfitzner, A.-K., West, M., Roux, A., and Odorizzi, G. (2020) Doa4 interferes with ESCRT-III remodeling factors to inhibit the membrane scission mechanism. *J. Cell Sci.*, 133: jcs241455 doi:10.1242/jcs.241455.



42. Plemel, R., Odorizzi, G., and Merz, A. (2021) Genetically encoded multimode reporter of AP-3 traffic in budding yeast. *Traffic*, <https://doi.org/10.1111/tra.12772>.
43. Wilson, Z.N., Buysse, D., West, M., Ahrens, D., and Odorizzi, G. (2021) Vacuolar H<sup>+</sup>-ATPase dysfunction rescues intraluminal vesicle cargo sorting in yeast lacking PI(3,5)P<sub>2</sub> or Doa4. *J. Cell Sci.*, 134: jcs258459.
44. Tseng, C.-C., Dean, S., Davies, B.A., Azmi, I.F., Pashkova, N., Payne, J.A., Staffenhagen, J., West, M., Piper, R.C., Odorizzi, G., and Katzmann, D.J. (2021) Bro1 stimulates Vps4 to promote intraluminal vesicle formation during multivesicular body biogenesis. *J. Cell Biol.*, 220:e202102070.
45. Buysse, D., West, M., Leih, M., and Odorizzi, G. (2022) Bro1 binds the Vps20 subunit of ESCRT-III and promotes ESCRT-III regulation by Doa4. *Traffic*, doi: 10.1111/tra.12828.
46. Pfitzner, A.-K., Zivkovic, H., Bernat-Silvestre, C., West, M., Peltier, T., Humbert, F., Odorizzi, G. and Roux, A. (2023). Vps60 initiates alternative ESCRT-III filaments. *J. Cell Biol.* 222, e202206028.
47. Wilson, Z.N., West, M., English, A.M., Odorizzi, G., and Hughes, A.L. Mitochondrial-Derived Compartments are Multilamellar Domains that Encase Membrane Cargo and Cytosol. *bioRxiv* doi: 10.1101/2023.07.07.548169.
48. Suzuki, S.W., West, M., Zhang, Y., Fan, J.S. Roberts, R.T., Odorizzi, G., and Emr, S.D. A role for Vps13-mediated lipid transfer at the ER-endosome contact site in ESCRT-mediated sorting. *J. Cell Biol.* (provisionally accepted for publication, 1/8/24).
49. Ouyang, Y., Jeong, M.-Y., Cunningham, C.N., Berg, J.A., Toshniwal, A.G., Hughes, C.E., Seiler, K., Van Vranken, J.G., Cluntun, A.A., Lam, G., Winter, J.M., Akdoğan, E., Dove, K.K., Nowinski, S.M., West, M., Odorizzi, G., Gygi, S.P., Dunn, C.D., Winge, D.R., and Rutter, J. Phosphate Starvation Signaling Increases Mitochondrial Membrane Potential through Respiration-independent Mechanisms. *eLife*, submitted.