CURRICULUM VITAE

Name: Rytis Prekeris

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Education and Employment:

1984–91 B.S. in Physiology. Department of Natural Sciences, Vilnius University, Vilnius, Lithuania.

Summer 1991 Training Program in Environmental Biology. Central European University, Budapest, Hungary.

1991–92 Training Program in Human Ecology and Genetics. College of the Atlantic, Bar Harbor, ME, USA.

1992–93 Research Assistant. The Jackson Laboratories, Bar Harbor, ME, USA.

1993–97 Ph.D. in Cell Biology. Department of Anatomy and Cell Biology, East Carolina University School of Medicine, Greenville, NC, USA.
Mentor: Dr. David Terrian.

1997–01 Post-doc. Howard Hughes Medical Institute, Department of Molecular and Cellular Physiology, Stanford University School of Medicine, Stanford, CA, USA.
Mentor: Dr. Richard Scheller.

2001-07 Assistant Professor. Department of Cell and Developmental Biology, University of Colorado Denver, Anschutz Medical Campus, School of Medicine, Aurora, CO, USA

2007-2015 Associate Professor. Tenured since 2009. Department of Cell and Developmental Biology, University of Colorado Denver, Anschutz Medical Campus, School of Medicine, Aurora, CO, USA

Current Position:

2015-current Professor. Tenured since 2009. Department of Cell and Developmental Biology, University of Colorado Denver, Anschutz Medical Campus, School of Medicine, Aurora, CO, USA

Honors and Awards:

1991 B.S. with Honors.

1991-2 D. Soros Foundation Academic Scholarship.

1993 Grant-in-Aid of Research Award from Sigma Xi, The Scientific Research Society.

1993 Eastern Student Research Forum Travel Award.

1994 Second Place in Oral Presentations, Eastern Student Research Forum.

1994 Ph.D. Student Research Grant Award, East Carolina University, NC.

1996 American Society for Cell Biology Predoctoral Student Travel Award.

1997 Eastern Student Research Forum Travel Award.

1997 First Place in Oral Presentations, Eastern Student Research Forum.

1997 Carol F. Valkman Memorial Award for the Outstanding Contribution to the Literature of Biomedical Sciences.

2002 American Diabetes Association Junior Faculty Award.

2002 Howard Hughes Junior Faculty Award.

Professional Societies:

1997-present American Society for Cell Biology

2001-present University of Colorado Cancer Center

2001-present University of Colorado Cell and Development Biology Graduate Program

2001-present University of Colorado Biomedical Sciences Graduate Program

2002-present European Life Sciences Organization (ELSO)

2002-present University of Colorado Molecular Biology Graduate Program

2004-present M.D./Ph.D. Training Program at UC Denver

2014-present University of Colorado Cancer Biology Graduate Program

Completed Research Grants:

2002-2003 "The role of Rab GTPases in membrane traffic in polarized epithelial cells"
HHMI (PI: Rytis Prekeris)

2002-2005 "The role of Rab11 in insulin-dependent GLUT4 traffic"
American Diabetes Association (PI: Rytis Prekeris)

2007-2010 "The regulation of MMP secretion during invasion of breast cancer cells"
The Susan G. Komens Breast Cancer Foundation (PI: Rytis Prekeris)

2011-2012 "The regulation of MMP secretion during invasion of breast cancer cells"
Cancer League of Colorado (co-PIs: Rytis Prekeris and Pepper Schedin)

2014-2015 "Elucidating the roles of midbodies during squamous cell carcinoma progression"
Cancer League of Colorado (co-PIs: Rytis Prekeris and Xiao-Jing Wang)

Active Research Grants:

2002-2019 "Molecular mechanisms of polarized membrane traffic in epithelial cells"
NIH-NIDDK; R01-DK064380 (PI: Rytis Prekeris; Effort 33%)

2016-2019 "Mechanisms regulating the midbody inheritance and the role of midbodies in regulating cancer stem cells"
Lithuanian Science Council; APP-16-063 (co-PIs: Arvydas Skeberdis and Rytis Prekeris; Locations: Lithuanian University of Health Science and University of Colorado Anschutz Medical Campus)

Pending Research Grants:

20017-2022 "The mechanisms regulating actin dynamics and polarized membrane transport during invadopodia formation and cell migration"
NIH-NGMS; R01-GM122768 (PI: Rytis Prekeris; Effort 25%)

Primary publications:

1. Vosyliene, M.Z., Petrauskiene, L., and Prekeris, R. (1993) Behavioral Responses and Physiological Parameters of Trout at Various Stages of Social Stress. Biologija. 2:86-91.

2. Prekeris, R., Mayhew, M.W., Cooper, J.B., and Terrian D.M. (1996) Identification and Localization of an Actin-Binding Motif That is Unique to the Epsilon Isoform of Protein Kinase C and Participates in the Regulation of Synaptic Function. The Journal of Cell Biology. 132(1):77-90. PMID: 9199173. PMID: 8567732

3. Navin, A., Prekeris, R., Lisitsin, N.A., Sonti, M.M., Grieco, D.A., Narayanswami, S., Lander, E.S., and Simpson, E.M. (1996) Mouse Y-Specific Repeats Isolated by Whole Chromosome Representational Difference Analysis. Genomics. 36(2):349-353. PMID: 8812464

4. Prekeris, R., and Terrian, D.M. (1997) Brain Myosin V is a Synaptic Vesicle-Associated Motor protein: Evidence for a Ca^{2+}-Dependent Interactions with the Synaptobrevin-Synaptophysin Complex. The Journal of Cell Biology. 137(7):1589-1601.

5. Advani, R.J., Bae, H.R., Bock, J.B., Chao, D.S., Doung, Y.C., Prekeris, R., Yoo, J.S., and Scheller, R.H. (1998) Seven Novel Mammalian SNARE Proteins Localize to Distinct Membrane Compartments. The Journal of Biological Chemistry. 273:10317-10324. PMID: 9553086

6. Prekeris, R., Hernandez, R.M., Mayhew, M.W., White, M.K., and Terrian D.M. (1998) Molecular Analysis of the Interactions between Protein Kinase C-ε and Filamentous Actin. The Journal of Biological Chemistry. 273:26790-26798. PMID: 9756923

7. Prekeris, R., Klumperman, J., Chen, Y.A., and Scheller, R.H. (1998) Syntaxin 13 Mediates Cycling of Plasma Membrane Proteins Via Recycling Endosomes. The Journal of Cell Biology. 143:957-971. PMID: 9817754

8. Yang, B., Gonzalez, L., Prekeris, R., Steegmaier, M., Advani, R.J., and Scheller, R. (1999) SNARE Interactions are not Selective: Implication for Membrane Fusion Specificity. The Journal of Biological Chemistry. 274:5649-5653.

9. Chao, D.S., Hay, J.C., Winnick, S., Prekeris, R., Klumperman, J., and Scheller, R. (1999) SNARE Membrane Trafficking Dynamics In Vivo. The Journal of Cell Biology. 144:869-881. PMID: 10085287

10. Advani, R.J., Yang, B., Prekeris, R., Lee, K.C., Klumperman, J., and Scheller, R.H. (1999) VAMP 7 Mediates Vesicular Transport from Endosomes to Lysosomes. The Journal of Cell Biology. 146:765-776. PMID: 10459012

11. Prekeris, R., Foletti, D.L., and Scheller, R.H. (1999) Dynamics of Tubulo-Vesicular Recycling Endosomes in Hippocampal Neurons. The Journal of Neuroscience. 19(23):10324-10337. PMID: 10575030

12. Prekeris, R., Yang, B., Oorschot, V., Klumperman, J., and Scheller, R.H. (1999) Differential Roles of Syntaxin 7 and Syntaxin 8 in Endosomal Trafficking. Molecular Biology of The Cell. 10:3891-3908. PMID: 10564279

13. Steegmaier, M., Lee, K.C., Prekeris, R., and Scheller, R.H. (2000) SNARE Protein Trafficking in Polarized MDCK Cells. Traffic. 1(7):553-561. PMID: 11208143

14. Prekeris, R., Klumperman, J., and Scheller, R.H. (2000) Syntaxin 11 is an Atypical SNARE Abundant in the Immune System. European Journal of Cell Biology. 79:771-780. PMID: 11139139

15. Prekeris, R., Klumperman, J., and Scheller, R.H. (2000) A Rab11/Rip11 Protein Complex Regulates Apical Membrane Trafficking via Apical Recycling Endosomes. Molecular Cell. 6:1437-1448. PMID: 11163216

16. Prekeris, R., Davies, J.M., and Scheller, R. (2001) Identification of a Novel Rab11/25 Binding Domain Present in Eferin and Rip Proteins. The Journal of Biological Chemistry. 276:38966-38970. PMID: 11481332

17. Martinez-Menarguez, JA., Prekeris, R., Oorschot, V., Scheller, R., Geuze, HJ., Slot, JW., and Klumperman, J. (2001) Peri-Golgi Vesicles Contain Retrograde but not Anterograde Proteins Consistent with the Cisternal Progression Model of Intra-Golgi Transport. The Journal of Cell Biology. 155:1213-1224. PMID: 11748250

18. Meyers, J.M., and Prekeris, R. (2002) Formation of mutually exclusive Rab11 complexes with members of the FIP family regulate Rab11 endocytic targeting and function. The Journal of Biological Chemistry. 277:49003-49010. PMID: 12376546

19. Hickson, G.R.X., Matheson J., Riggs, B. Maier, V.H., Fielding, A.B., Prekeris, R., Sullivan, W., Barr, F.A., and G.W. Gould. (2003) Arfophilins are dual Arf/Rab11 binding proteins that regulate recycling endosome distribution and are related to *Drosophila* nuclear fallout. Molecular Biology of the Cell. 14:2908-2920. PMID: 12857874

20. Peden, A.A., Schonteich, E., Chun, J., Jagath, J.R., Scheller, R.H., and R. Prekeris. (2004) The RCP-Rab11 complex regulates endocytic protein sorting. Molecular Biology of the Cell. 15:3530-3541. PMID: 15181150

21. Junutula, J.R., Schonteich, E., Wilson, G.M., Peden, A.A., Scheller, R.H., and R. Prekeris (2004) Molecular characterization of Rab11 interactions with the members of family of Rab11-interacting proteins (FIPs). The Journal of Biological Chemistry. 279:33430-33437. PMID: 15173169

22. Wilson, G.M., Fielding, A.B., Simon, G., Yu, X., Andrews, P.D., Hames, R.S., Frey, A.M., Peden, A.A., Gould, G.W., and R. Prekeris. (2005) The FIP3 protein complex regulates recycling endosome targeting to the cleavage furrow during late cytokinesis. Molecular Biology of the Cell. 16:849-860. PMID: 15601896

23. Fielding, A.B., Schonteich, E., Yu, X., Matheson, J.,Wilson, G., Xinzi, Y., Hickson, G.R.X., Srivastava, S., Baldwin, S.A., Prekeris, R., and G.W. Gould (2005) Rab11-FIP3 and Rab11-FIP4 interact with Arf6 and Exocyst to control membrane traffic during cytokinesis. EMBO J. 24:3389-3399. PMID: 16148947

24. Clarke, M., Ewart, M.N., Santy, C.C., Prekeris, R., and G. Gould (2006) ACRP30 is secreted from 3T3-L1 adipocytes via a Rab11-dependent pathway. Biochemical and Biophysical Research Communications. 342:1361-1367. PMID: 16516854

25. Eathiraj, S., Mishra, A., Prekeris, R., and D.G. Lambright (2006) Structural basis for Rab11-mediated recruitment of FIP3 to recycling endosomes during cytokinesis. Journal of Molecular Biology. 364(2):121-135. PMID: 17007872

26. Yu, X., Prekeris, R., and G. W. Gould (2007) Role of endosomal Rab GTPases in cytokinesis. European Journal for Cell Biology. 86:25-35. PMID: 17157409

27. Westlake, C.J., J.R. Junutula, G.C. Simon, M. Pilli, R. Prekeris, R.H. Scheller, P.K. Jackson, and A.G. Eldridge (2007) Identification of Rab11 as a small GTPase binding protein for the Evi5 oncogene. PNAS. 104:1236-1241. PMID: 17229837

28. Schonteich, E., M. Pilli, G.C. Simon, H.T. Matern, J.R. Junutula, D. Sentz, R.K. Holmes and R. Prekeris (2007) Molecular characterization of Rab11-FIP3 binding to Arf GTPases. European Journal of Cell Biology. 86:417-431. PMID: 17628206

29. Simon, G.C., E. Schonteich, C.C. Wu, D. Ekiert, A. Piekny, X. Yu, G.W. Gould, M. Glotzer and R. Prekeris (2008) Sequential Cyk4/MgcRacGAP binding to ECT2 and Rab11-FIP3 regulates cleavage furrow ingression and abscission during cytokinesis. EMBO J. 27:1791-1803. PMID: 18511905

30. Inhoue, H., V.L. Ha, R. Prekeris and P.A. Randazzo (2008) Arf GAP ASAP1 interacts with Rab11 effector FIP3 and regulates pericentrosomal localization of transferring receptor-positive recycling endosome. Molecular Biology of the Cell. 19:4224-4237. PMID: 18685082

31. Schonteich, E., G.M, Wilson, J. Burden, C.R. Hopkins, K. Anderson, J.R. Goldenring and R. Prekeris (2008) Rip11/FIP5 and Kinesin II complex regulates endocytic protein recycling. Journal of Cell Science. 121:3824-3833. PMID: 18957512

32. Mazelova, J., Astuto-Gribble, L., Inoue, H., Tam, B.M., Schonteich, E., Prekeris, R., Moritz, O.L., Randazzo, P.A., and D. Deretic (2009) Ciliary targeting motif VxPx directs assembly of a trafficking module through Arf4. EMBO J. 28:183-192. PMID: 19153612

33. Jing, J., Wilson, G., Tarbutton, E., and R. Prekeris (2009) Rab11-FIP3 is a Rab11 and Arf6 binding proteins that regulates breast cancer motility by modulating actin cytoskeleton. European Journal of Cell Biology. 88(6):325-341. PMID: 19327867

34. Jing, J., Junutula. J.R., Wu, C., Burden, J., Peden, A.A., and R. Prekeris (2010) FIP1/RCP binding to Golgin-97 regulates retrograde transport from recycling endosomes to Trans-Golgi Network. Molecular Biology of the Cell. 21(17):3041-3053. PMID: 20610657

35. Szperl, A.M., Golachowna, M.R., Bruinenberg, M., Prekeris, R., Thunnissen, W.H., Hoekstra, D., Wijmenga, C., Ksiazyk, J., Rings, E.M., Wapenaar, M.C., and S.C.D. van IJzendoorn (2011) Functional characterization of mutations in the myosin Vb gene associated with microvillus inclusion disease. Journal of Pediatric Gasteroenterology and Nutrition. 52(3):307-313. PMID: 21206382

36. Schiel, J., Park, K., Morphew, M.K., Reid, E., Hoenger, A., and Prekeris, R. (2011) Coordinated Endocytic Membrane Fusion and Buckling-Induced Microtubule Severing Mediate Cell Abscission. Journal of Cell Science. 124:1411-1424. PMID: 21486954

37. Willenborg, C., Jing, J., Wu, C., Matern, H., Burden, J., and Prekeris, R. (2011) FIP5/Rip11 and SNX18 Interaction Regulates Epithelial Lumen Formation. The Journal of Cell Biology. 195(1):71-86. PMID: 21969467

38. Arras, L., Yang, I., Lackford, B., Riches, D., Prekeris, R., Freedman, J.H., Schwartz, D.A., and Alper, S. (2012) Spatiotemporal inhibition of innate immunity signaling by the TBC1D23 Rab-GAP. The Journal of Immunology. 188(6):2905-2913. PMID: 22312129

39. Collins, L.L., Simon, G.S., Matheson, J., Wu, C., Miller, M.C., Otani, T., Yu, X., Prekeris, R., and G.W. Gould (2012) Rab11-FIP3 is a cell cycle-regulated phosphoprotein. BMC Cell Biology. 13(1):4. PMID: 22401586

40. Schiel, J.A., Simon, G., Castle, D., Christine C.W., D., and Prekeris, R. (2012) FIP3-endosome mediated actin depolymerization and formation of the secondary ingression mediates ESCRT-III recruitment to the abscission site during cytokinesis. Nature Cell Biology. 14(10):1068-1078. PMID: 23000966

41. Maller, O., Hansen, K.C., Lyons, T.R., Acerbi, I.,Weaver, V.W., Prekeris, R., Tan, A.C., and Schedin, P. (2013) Collagen architecture in pregnancy-induced protection from breast cancer. Journal of Cell Science. 126:4108-4110. PMID: 23843613

42. Jing, J., Hiu, L., O'Connor, B., Evans, C., Prekeris, R., Kobzik, L., Yang, I.V., and Schwartz, D.A. (2013) Role of macrophage receptor with collagenous structure in innate immunity tolerance. Journal of Immunology. 190(12):6360-6367.

43. Jacob, A., Jing, J., Lee, J., Schedin, P., Peden, A.A., Junutula, J.R. and Prekeris, R. (2013) Rab40b regulates MMP2 and MMP9 trafficking during invadopodia formation and breast cancer cell invasion. Journal of Cell Science. 126:4647-4658. PMID: 23902685

44. Nachbar, J., Lazaro-Dieguez, F., Prekeris, R., Cohen, D. and Muesch, A. (2013) KifC3 promotes mitotic progression and integrity of the central spindle in cytokinesis. Cell Cycle. 13(3):426-433. PMID: 24275865

45. Li, D., Mangan, A., Ciccini, L., Margolis, B., and Prekeris, R. (2014) FIP5 phosphorylation during mitosis regulates apical trafficking and luminogenesis. EMBO reports. 15(4):428-437. PMID: 24591568

46. Matsunami, N., Hensel, C.H., Baird, L., Stevens, J., Otterud, B., Leppert, T., Varvil, T., Hadley, D., Glessner, J., Pellegrino, R., Kim, C., Wang, T.F., Otieno, F.G., Ho, K., Christensen, B., Li, D., Prekeris, R., Lambert, C.G., Hakonarson, H., Leppert, M.F. (2014) Identification of rare DNA sequence variants in high-risk autism families and their prevalence in a large case/control population. Molecular Autism. 5(1):5. PMID: 24467814

47. Ito, Y., Correll, K., Schiel, J., Finigan, J., Prekeris, R., and Mason, R. (2014) Lung Fibroblasts Accelerate Wound Closure in Primary Human Alveolar Epithelial Cells through Hepatocyte Growth Factor/c-Met signaling pathway. Am J Physiol Lung Cell Mol Physiol. 307(1):L94-105. PMID: 24748602

48. Li, D., Kuehn, E.W., and Prekeris, R. (2014) Kinesin-2 mediates apical endosome transport during epithelial lumen formation. Cellular Logistics. 4(1):e28928. PMID: 24843830

49. Song, M., Giza, J., Proenca, C.V., Deqiang, J., Elliot, M., Dincheva, I., Shmelkov, S., Kim, J., Schreiner, R., Huang, S.H., Castren, E., Prekeris, R., Hempstead, B.L., Chao, M.V., Dictenberg, J.B., Rafii, S., Rodriguez-Boulan, E., and Lee, F.S. (2015) Slitrk5 mediates BDNF-dependent TrkB receptor trafficking and signaling. Developmental Cell. 33(6):690-702. PMID: 26004511

50. Guo, Y., Kenny, S.R., Muller, C.Y., Adams, S., Rutledge, T., Romero, E., Murray-Krezan, C., Prekeris, R., Sklar, L.A., Hudson, L.G., and Wandinger-Ness, A. (2015) R-ketorolac targets Cdc42 and Rac1 and alters ovarian cancer cell behaviors critical for invasion and metastasis. Molecular Cancer Therapeutics. 14(10):2215-27. PMID: 26206334

51. Mangan, A., Sietsema, D.V., Li, D., Moore, J.K., Citi, S., and Prekeris, R. (2016) The roles of cingulin and actin in mediating midbody-dependent apical lumen initiation and formation in epithelial cells. Nature Communications. 7:12426. PMID: 27484926

52. Mandell, M.A., Jain, A., Castleman, M.J., Kumar, S., Anwar, T., Eskelin, E.L., Johansen, T., Prekeris, R., and Deretic, V. (2016) TRIM17 conducts precision autophagy of midbodies while actively sparing other targets from degradation. Journal of Cell Science. *In Press*. PMID: 27562068

54. Jacob, A., Linklater, E., Bayless, B., Lyons, T., and Prekeris, R. (2016) The Role and Regulation of Rab40b/Tks5 Complex During Invadopodia Formation and Cancer Cell Invasion. Journal of Cell Science. *In Press*.

Invited Reviews and Book Chapters:

1. Foletti, D.L., Prekeris, R., and Scheller R.H. (1999) Generation and Maintenance of Neuronal Polarity: Mechanisms of Transport and Targeting. Neuron, 23:641-644. PMID: 10482230

2. Prekeris, R. (2003) Rabs, Rips, FIPs, and Endocytic Membrane Traffic. The Scientific World Journal. 3:870-880. PMID: 14532427

3. Tarbutton, E., Peden, A.A., Junutula, J.R., and Prekeris, R. (2005) Class I FIPs, Rab11-binding proteins that regulate endocytic sorting and recycling. Methods in Enzymology, 403:512-525. PMID: 16473616

4. Prekeris, R. and Gould, G.W. (2008) Breaking up is hard to do: membrane traffic and cytokinesis. Journal of Cell Science,121:1569-1576. PMID: 18469013

5. Simon, G.C. and Prekeris, R. (2008) Mechanisms regulating targeting of recycling endosomes to the cleavage furrow during cytokinesis. Biochemical Society Transactions. 36:391-394. PMID: 18481966

6. Simon, G.C. and Prekeris, R. (2008) The role of FIP3-dependent endosome transport during cytokinesis. Communicative & Integrative Biology. 36:391-394. PMID: 19704869

7. Jing, J. and Prekeris, R. (2009) Polarized endocytic transport: the roles of Rab11 and Rab11-FIPs in regulating cell polarity. Histology and Histopathology: Cellular and Molecular Biology. 24(9):1171-1180. PMID: 19609864

8. Prekeris, R. and Junutula, J.R. (2009) Rab11a. UCSD-Nature Molecule Pages.

9. Prekeris, R. and Junutula, J.R. (2009) Rab11b. UCSD-Nature Molecule Pages.

10. Prekeris, R. and Junutula, J.R. (2009) Rab11-FIP3. UCSD-Nature Molecule Pages.

11. Schiel, J. and Prekeris, R. (2010) Making the final cut: Mechanisms mediating the abscission step of cytokinesis. The Scientific World Journal. 10:1424-1434. PMID: 20661535

12. Hsu, VW and Prekeris, R. (2010) Mechanistic understanding of transport through the recycling endosome. Current Opinion in Cell Biology. 22(4):528-534. PMID: 20541925

13. Willenborg, C., and Prekeris, R. (2011) Apical protein transport and lumen morphogenesis in polarized epithelial cells. Bioscience Reports. 31(4):245-256. PMID: 21366541

14. Schiel, J., and Prekeris, R. (2011) ESCRT or Endosomes? – Tales of the Separation of Two Daughter Cells. Communicative & Integrative Biology. 4(5):606-608. PMID: 22046476

15. Prekeris, R. (2011) Actin Regulation During Abscission: Unexpected Roles of Rab35 and Endocytic Transport. Cell Research. 21(9):1283-1285. PMID: 21844893

16. Prekeris, R. (2012) Making the final cut: the role of endosomes during mitotic cell division. Chapter in Book "Membrane Trafficking".

17. Prekeris, R. (2012) The art of "Cut and Run": the role of Rab14 GTPase in regulating N-cadherin shedding and cell motility. Developmental Cell. 22(9):909-910. PMID: 22595666

18. Schiel, J., and Prekeris, R. (2012) Membrane dynamics during cytokinesis. Current Opinion in Cell Biology. 25(1):92-98. PMID: 23177492

19. Schiel, J., Childs, C., and Prekeris, R. (2013) Endocytic transport and cytokinesis: from regulation of the cytoskeleton to midbody inheritance. Trends in Cell Biology. 23(7):319-327. PMID: 23522622

20. Mangan, A., and Prekeris, R. (2015) 3D-Time-Lapse analysis of Rab11/FIP5 complex: spatiotemporal dynamics during apical lumen formation. Methods in Molecular Biology. 1298:181-186. PMID: 25800842

21. Jacob, A., and Prekeris, R. (2015) Regulation of MMP targeting to invadopodia during cancer metastasis. Frontiers in Cell and Developmental Biology. 3:4. PMID: 25699257

22. Prekeris, R. (2015) Analyzing the functions of Rab11 effector proteins during cell division. Methods in Cell Biology. 1298:181-186. PMID: 26360025

23. Dionne, L.K., Wang, X.J. and Prekeris, R. (2015) Midbody: From cellular junk to cell polarity and cell fate regulator. Current Opinion in Cell Biology. 35:51-58. PMID: 25950842

24. Blasky, A., Mangan, A. and Prekeris, R. (2015) Polarized protein transport and lumen formation during epithelial tissue morphogenesis. Annual Review of Cell and Developmental Biology. *In Press*. PMID: 26359775

25. Prekeris, R. (2015) Cut or NoCut: the Role of JADE1S in regulating abscission checkpoint. Cell Cycle. 14(20):3219. PMID: 26327571

26. Peterman, E. and Prekeris, R. (2016) Understanding post-mitotic roles of the midbody during cell differentiation and polarization. Methods in Cell Biology. *In Press*.

27. Gibieza, P. and Prekeris, R. (2016) Rab GTPases and cell division. Small GTPases. *In Press*.

Invited Lectures/Talks:

1. Annual meeting of Japan Biochemical Society. (2000). Fukuoka, Japan.

2. Symposia in Protein Transport. (2000). Kyushu University, Fukuoka, Japan.

3. Molecular Biology Mini-Course “Protein: The Secret of Life”. (2003). UCHSC, Denver, USA

4. Mini-symposia “Receptor Dynamics and Cancer”. (2003). UCHSC, Denver, USA

5. Speaker at Keystone Symposia “Traffic Control: Rab GTPases in Vesicular Transport”. (2004). Breckenridge, USA

6. Speaker at ASCB summer meeting “Cytokinesis”. (2004) University of Vermont, Burlington, USA

7. Speaker at Genentech Inc. (2005) South San Francisco, CA, USA

8. Speaker at UNC Chapel Hill, Department of Cell and Developmental Biology. (2007) Chapel Hill, NC, USA

9. Speaker in ASCB-ECF summer meeting “Dynamic Interplay Between Cytoskeleton and Membrane Systems”. (2007) Dijon, France

10. Speaker at “Cambridge Cell Biology Seminar Series”, Cambridge Institute for Medical Research, School of Clinical Medicine. (2007) Cambridge, England, UK

11. Speaker at University of Colorado Cancer Center seminar series. (2007) UCHSC, Aurora, CO, USA.

12. Speaker at University of Montana, Department of Biology. (2007) Missoula, MT, USA

13. Speaker at Biochemical Society meeting “Mechanics and Control of Cytokinesis”. (2008) Royal College of Surgeons, Edinburgh, Scotland, UK

14. Speaker at Gordon Conference “Lysosomes and Endocytosis”. (2008). New Hamshire, USA.

15. Speaker at the annual American Society for Cell Biology meeting, special interest subgroup

session” Monomeric GTPases regulating intracellular traffic”. (2008). San Francisco, CA, USA.

16. Speaker at Denver University, Department of Biology. (2009) Denver, CO, USA.

17. Session chair and speaker in ESF-EMBO symposium “Cell Polarity and Membrane Traffic”. (2009) Sant Feliu de Guixols, Spain.

18. Speaker at University of Pennsylvania, Pennsylvania Muscle Institute. (2010) Philadelphia, PA, USA.

19. Speaker at University of Colorado Cancer Center Seminar Series. (2010) Denver, CO, USA.

20. Speaker at University of Nebraska Medical Center Biochemistry and Molecular Biology Seminar Series. (2011) Omaha, NE, USA.

21. Speaker at the Annual Experimental Biology Meeting, Epithelial Transport Group Symposium on Trafficking Across Epithelia (2011) Washington, DC, USA.

22. Speaker at the Annual Front Range Microtubule Conference (2011) Boulder, CO, USA.

23. Speaker at Kaunas University of Medicine, Institute of Cardiology. (2011) Kaunas, Lithuania.

24. Speaker at University of Colorado Cancer Center Retreat (2011) Denver, CO, USA.

25. Speaker at the EMBO Conference “Dynamic Endosomes: Mechanisms Controlling Endocytosis” (2011) Chania, Crete, Greece.

26. Speaker at the annual American Society for Cell Biology meeting, special interest subgroup meeting ”Endocytic Recycling Pathways – Many Guises, Many Functions”. (2011) Denver, CO, USA.

27. Organizer and speaker at the second annual “Front Range Cytoskeleton” Conference (2012) Denver, CO, USA.

28. Speaker at National Jewish seminar series (2012), Denver, CO, USA

29. Speaker at Genentech Inc. (2012) South San Francisco, CA, USA

30. Speaker at NIH/NCI Workshop “Dysregulated Endocytosis in Cancer”. (2013) Bethesda, MD, USA.

31. Speaker at Denver University seminar series (2013), Denver, CO, USA

32. Speaker at University of Massachusetts School of Medicine seminar series (2013), Worchester, MA, USA

33. Speaker at FASEB Research Conference “Arf and Rab family G proteins”. (2013) Snowmass Village, CO, USA

34. Speaker at University of Cincinnati College of Medicine seminar series (2013), Cincinnati, OH, USA

35. Speaker at University of Colorado Cancer Center Seminar Series. (2013) Denver, CO, USA.

36. Speaker at University of Pittsburgh School of Medicine Seminar Series. (2014) Pittsburgh, PA, USA

37. Speaker at XIII Biochemical Conference of Lithuanian Biochemical Society. (2014) Birstonas, Lithuania

38. Speaker at Kaunas University of Medicine, Institute of Cardiology. (2014) Kaunas, Lithuania.

39. Speaker at Vilnius University, Biotechnology Institute. (2014) Vilnius, Lithuania.

40. Speaker at University of New Mexico Health Sciences Center. (2014) Albuquerque, NM, USA

41. Speaker at Hospital for Sick Children, University of Toronto. (2014) Toronto, Canada

42. Speaker at the annual American Society for Cell Biology meeting, session ”Small GTPases and lipids in membrane dynamics”. (2014) Philadelphia, PA, USA.

43. Speaker at Endocrine Research Conference, University of Colorado. (2015) Denver, CO, USA

44. Speaker at Institut Pasteur. (2015) Paris, France

45. Speaker at Kaunas University of Medicine, Institute of Cardiology. (2015) Kaunas, Lithuania.

46. Speaker at University of Wyoming at Laramie. (2015) Laramie, WY, USA

47. Speaker at the EMBO Conference “The multidisciplinary era of endocytic mechanics and functions” (2015) Mandelieu-la-Napoule, France.

48. Speaker at University of Arizona Cancer Center. (2015) Tucson, AZ, USA

49. Speaker at Institut Curie. (2016) Paris, France

50. Speaker at Kaunas University of Medicine, Institute of Cardiology. (2016) Kaunas, Lithuania.

51. Speaker at the FASEB Conference “GTPases in Trafficking, Autophagy and Disease” (2016) West Palm Beach, FL, USA.

52. Speaker at Endocrine Research Conference, University of Colorado. (2016) Denver, CO, USA

Served on the Review Panels:

1. Special Emphasis Review Panel (ZDK1 GRB-7 (J3)P) for NIH-NIDDK	2004, 2006
2. Cellular Organization Review Panel for NSF	2005
3. Add Hoc reviewer for MCB Panel for NSF	2006 - 2011
4. Special Emphasis Review Panel (ZGM1 MBRS-7 (CC)) for NIH-GM	2007 - 2016
5. Reviewer for NIH-NIDDK MERIT Award	2009
6. Reviewer for Ireland Health Research Board Grants	2009
7. Reviewer for Biotechnology and Biological Sciences	

8. Research Council (United Kingdom) Grants	2009, 2014
9. Reviewer for Medical Research Council (United Kingdom) Grants	2009-2014
10. James & Ester King Biomedical Research (USA) Program	2010-2013
11. Special Emphasis Review Panel (ZDK1 GRB-7 (J2)) for NIH-NIDDK	2011
12. Reviewer for Israel Science Foundation	2011, 2013
13. Reviewer for Institut National du Cancer, France	2014
14. Special Emphasis Review Panel ZGM1 TWD-7 COBRE for NIH-GM	2014
15. Add Hoc reviewer for French National Research Agency (ANR)	2012-2014
16. Member of Pre-Proposal Evaluation and Final Panels for French National Research Agency (ANR)	2015-2016
17. Reviewer of Centers of Biomedical Research Excellence (COBRE) Phase III - Transitional Centers (P30) program applications for NIH-GM	2015
18. Komen Colorado Grant Review Panel	2016, 2017
19. NIH NCSD study section	2016, 2017
20. Special Emphasis Review Panel (ZGM1 BBCB-7) for NIH-GMS	2016
21. Add Hoc reviewer for Swiss National Science Foundation	2016
22. Special Emphasis Review Panel (ZGM1 CB-L) for NIH-GMS	2016

Served on Editorial Boards

Assistant Editor “Cellular Logistics”	2010-current
Assistant Editor “The Scientific World Journal“	2011-current
Associate Editor “Frontiers in Cell and Developmental Biology”	2013-current
Guest Associate Editor “PLOS Genetics”	2015

Junior Faculty Mentoring Committees:

Scott Alper, Ph.D. Assistant Professor, National Jewish	2010-2013
Judith Blaine, MD, Ph.D. Assistant Professor, University of Colorado AMC, Division of Renal Diseases and Hypertension	2013-2014

Postdoctoral F32 Mentoring Committees:

Eric van Otterloo, Ph.D. Post-doc in Dr. Trevor William’s lab	2014-2016
Phil Spear, Ph.D. Post-doc in Dr. Lee Niswander’s lab	2015-2016

Graduate Committees:

1. Comprehensive Examination and Thesis Committees (2001-2004). Jennifer Gillette. Cell and Developmental Biology Graduate Program.

2. Comprehensive Examination and Thesis Committees (2002-2005). Chris Bankers. Molecular Biology Graduate Program.

3. Comprehensive Examination Committee (2003). Megan Howard. Microbiology Graduate Program.

4. Comprehensive Examination Committee (2004).Davin Korstjens. Pharmacology Graduate Program.

5. Thesis Committee (2004-2005). Jay Gatlin. Cell and Developmental Biology Graduate Program.

6. Chair of Comprehensive Examination and Thesis Committees (2004-2008). Agne Taraseviciute. Cell and Developmental Biology Graduate Program.

7. Comprehensive Examination and Thesis Committees (2005-2008). Roslyn Bauer. Cell and Developmental Biology Graduate Program.

8. Comprehensive Examination and Thesis Committees (2005-2009). Arun Fernando. Physiology Graduate Program.

9. Chair of Comprehensive Examination and Thesis Committee (2006-2010). Brice McConnell. Molecular Biology Graduate Program.

10. Comprehensive Examination and Thesis Committees (2006-2010). Christina Pyrgaki. Molecular Biology Graduate Program.

11. Chair of Comprehensive Examination Committee (2006-2008). Rhonda Hattar. Cell and Developmental Biology Graduate Program.

12. Chair of Comprehensive Examination and Thesis Committees (2007-2010). LaiKuan Goh. Cells, Stem Cells and Development Graduate Program.

13. Comprehensive Examination and Thesis Committees (2007-2012). Brittany Allen. Cells, Stem Cells and Development Graduate Program.

14. Comprehensive Examination and Thesis Committees (2007-2011). Tariq Adwan. Cells, Stem Cells and Development Graduate Program.

15. Comprehensive Examination and Thesis Committee (2008-2012). Ying Zhang. Cells, Stem Cells and Development Graduate Program.

16. Comprehensive Examination and Thesis Committee (2008-2012). Paul Kirwan. Structural Biology Graduate Program.

17. Chair of Comprehensive Examination and Thesis Committees (2009-2013). Amanda Crunk. Molecular Biology Graduate Program.

18. Comprehensive Examination Committee and Thesis Committees (2010-2013). Brandi Chong.

Molecular Biology Graduate Program.

19. Comprehensive Examination Committee and Thesis Committees (2010-2014). Davalyn Powell. Cells, Stem Cells and Development Graduate Program.

20. Comprehensive Examination Committee and Thesis Committees (2010-2014). Alex Blasky. Cells, Stem Cells and Development Graduate Program.

21. Thesis Committee (2011). Megan Wemmer. MCDB Graduate Program at CU Boulder.

22. Comprehensive Examination Committee (2012). Francisco Ramirez-Victorino. Immunology Graduate Program.

23. Thesis Committee (2011-2014). Michelle Griffin. Microbiology Graduate Program.

24. Thesis Committee (2012-2013). Zeljko Dvanajscak. Neuroscience Graduate Program.

25. Comprehensive Examination and Thesis Committee (2012-current). Jason Dinella. Cells, Stem Cells and Development Graduate Program.

26. Chair of Comprehensive Examination and Thesis Committee (2013-2014). Courtney Betts. Cells, Stem Cells and Development Graduate Program.

27. Comprehensive Examination and Thesis Committee (2013-2014). Diane Gumina. Cells, Stem Cells and Development Graduate Program.

28. Thesis Defence Committee (2013). Tse-Chun Kuo. University of Massachusetts School of Medicine.

29. Comprehensive Examination and Thesis Committee (2013-current). Leila Noetzli. Human Medical Genetics Graduate Program.

30. Chair of Thesis Committee (2013-2016). Louis Cicchini. Molecular Biology Graduate Program.

31. Comprehensive Examination and Thesis Committee (2013-current). Marybeth Sechler. Cancer Biology Graduate Program.

32. Thesis Committee (2013). Tess Shideler. MCDB Graduate Program at CU Boulder.

33. Thesis Committee (2014-2017). Brittelle Bowers. Cancer Biology Graduate Program.

34. Thesis Committee (2014-2017). Aaron Bowen. Neuroscience Graduate Program.

35. Thesis Committee (2014-2016). Bryan Bayless. Cells, Stem Cells and Development Graduate Program.

36. Thesis Committee (2014-current). Senthilnath Lakshmana. Cells, Stem Cells and Development Graduate Program.

37. Chair of Thesis Committee (2014-current). Colby Fees. Cells, Stem Cells and Development Graduate Program.

38. Comprehensive Examination Committee (2015-current). Alicia Purkey. Pharmacology Graduate Program.

39. Thesis Committee (2015-current). Cassi Estrem. Molecular Biology Graduate Program.

40. Chair of Thesis Committee (2015-current). Divya Sankaran. Cancer Biology Graduate Program.

41. Chair of Thesis Committee (2016-current). Jayne Aiken. Cells, Stem Cells and Development Graduate Program.

42. Comprehensive Examination Committee (2016-current). Hengbo Zhou. Molecular Biology Graduate Program.

43. Thesis Committee (2016-current). Eric Jaffe. Molecular Biology Graduate Program.

44. Comprehensive Examination Committee (2016-current). Jessica Hsu. Pharmacology Graduate Program.

45. Chair of Comprehensive Examination (2016-current). Sarah Tarullo. Cancer Biology Graduate Program.

Thesis Adviser:

1. Glenn Simon (2003-2008). Graduated with Ph.D. from Cell and Developmental Biology Graduate Program.

2. Jian Jing (2005-2009). Graduated with Ph.D. from Cells, Stem Cells and Development Graduate Program.

3. Ryan Cameron (2006-2007). Graduated with Masters in Molecular Biology Graduate Program.

4. Carly Willenborg (2008-2012). Graduated with Ph.D. from Molecular Biology Graduate Program.

5. John Schiel (2009-2012) Graduated with Ph.D. from Cells, Stem Cells and Development Graduate program.

6. Dongying Li (2009-2013) Graduated with Ph.D. from Cells, Stem Cells and Development Graduate program.

7. Abitha Jacob (2011-2016). Molecular Biology Graduate Program.

8. Anthony Mangan (2013-current). Molecular Biology Graduate Program.
   Recipient of HHMI Gilliam Fellowship 2015-2018.

9. Eric Peterman (2015-current). Cells, Stem Cells and Development Graduate program.

10. Erik Linklater (2015-current). Molecular Biology Graduate Program.

11. Paulius Gibieza (2014-current). Lithuanian University of Health Sciences. Co-mentor with Dr. Arvydas Skeberdis.

12. Cayla Jewett (2016-current). Molecular Biology Graduate Program.
Recipient of NSF Research Fellowship 2016-2019.

Post-Doctoral Adviser:

1. Lai Kuan Dionne. Co-Mentor with Dr. Xiao-Jing Wang (2013-2015).

2. Alexander Blasky (2014-2016)

Undergraduate/High School students:

John Chun (2004) Summer Internship. Senior at UC at Colorado Springs.

Hana Chazin (2006) Summer Internship. Senior at George Washington High School.

Julian Gilliat (2008) Internship. Senior at Denver Science and Technology High School.

Evan Magee (2009) Internship. Junior at Denver Science and Technology High School.

Evan Magee (2010) Mentor for Senior Research Project. Denver Science and Technology High School

Ian Wehner (2010) Internship. Senior at Denver Science and Technology High School.

Savni Kulkarni (2013) Summer Internship. Senior at Rock Canyon High School.

Migle Prekeryte (2013) Summer Internship. Sophomore at Smoky Hill High School.

Teaching:

1. Graduate Student Biomedical Sciences Core Course (2001-current). Course Director since 2014.
2. Medical Student Integrated Anatomy Course (2001-current)
3. Dental Student Integrated Anatomy Course (2003-2009, 2015-current)
4. Molecular Biology Mini-Course (2003)
5. Molecular Biology Graduate Program Journal Club (2003)
6. Biomedical Sciences Graduate Program Journal Club (2003, 2011)
7. Molecular Biology Advanced Topics Course (2004, 2007, 2012, 2013)

8. Stem Cells and Development Graduate Course CSDV 7605 (2009-current). Course Director 2013-2015.
9. Advanced Topics in Cell Biology Course “Protein Targeting and Disease”. Course Director (2010)

University Committees:

1. CDB Department Instrumentation Committee	2004-2008
2. CSD Graduate Program Annual Retreat Committee	2006
3. Cancer, Development and Cell Biology Seminar Committee	2004-2008
4. UC AMC Faculty Senate	2010-2012
5. CSD Graduate Program Recruitment Committee	2006-2010
6. CDB Department Faculty Recruitment Committee	2011, 2012
7. CDB Post-Tenure Review Committee (for Dr. Joan Cooper)	2010
8. CSD Graduate Program Preliminary Examination Committee	2012, 2013
9. CCTSI K-to-R Mock Study Section	2012-2014
10. Molecular Biology Graduate Program Recruitment Committee Chair since 2014	2009-current
11. CSD Graduate Program Curriculum Committee	2010-current
12. Molecular Biology Graduate Program Executive Committee	2014-current
13. Chair of CDB Promotion Committee (for Dr. Stijn de Langhe)	2015
14. Judge. MSMHA student Capstone project	2015
15. CDB Post-Tenure Review Committee (for Dr. Vic Spitzer)	2015
16. Bolie Graduate Scholar Award committee	2015
17. Chair of CDB Pre-Tenure Review Committee (for Dr. Jeff Moore)	2015
18. CSD Preliminary Examination Committee	2016
19. CDB Resource Committee	2016-current
20. CDB Promotion and Tenure Committee (for Dr. Chad Pearson)	2016
21. MSTP Student Admissions Committee	2016-current