

**De Lisle, Robert C.**  
**November 19, 2013**

**FACULTY CURRICULUM VITAE**

**UNIVERSITY OF KANSAS SCHOOL OF MEDICINE**  
**FACULTY CURRICULUM VITAE**

**I. PERSONAL DATA**

Name: Robert C. De Lisle, Ph.D.  
Current Academic Rank: Associate Professor with tenure  
Department: Anatomy & Cell Biology

Office Address      4012 Orr-Major, MS 3038  
Phone                 913-588-2742  
email                  rdelisle@kumc.edu

PROFESSIONAL DEVELOPMENT

Undergraduate and Graduate Education

<u>Years</u>	<u>Degree/Area</u>	<u>Institution</u>
1975 - 1979	B.A. in Biology, Cum Laude	University of Massachusetts, Boston
1979-1984	Ph.D. in Cell and Molecular Biology	Case Western Reserve Univ., Cleveland, OH
1984-1987	Postdoctoral Fellow	University of California, San Francisco
1988-1989	Research Fellow	University of Michigan, Ann Arbor

Academic and Professional Appointments and Activities. (List in chronological order. Please explain any discontinuity in professional experience)

<u>Dates</u>	<u>Position</u>	<u>Institution</u>
10/88-7/90	Asst Research Scientist	University of Michigan, Ann Arbor
8/90-6/96	Asst Professor	University of Kansas Medical Center
7/96-present	Assoc Professor (tenured)	University of Kansas Medical Center

Professional Registration/Licensure:

<u>Year</u>	<u>Number</u>	<u>State</u>
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Professional Certification(s):

<u>Date</u>	<u>Board</u>
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Professional Societies and Affiliations:

<u>Year</u>	<u>Organization</u> (including offices held)
1984 -	American Association for the Advancement of Science, Member
1985 - 2007	American Society for Cell Biology, Member
1993 - 2003	American Pancreatic Association, Member
2002 -	American Gastroenterological Society, Member
2008 -	American Physiological Society, Member

Honors and Awards: (honorary societies, research awards, teaching and other awards.)

<u>Year</u>	<u>Award</u>
1975 - 1979	National Merit Scholarship; B.A. cum laude
1981	Visiting scientist for 3 months in the laboratory of Dr. Irene Schulz at the Max-Planck-Institut für Biophysik, Frankfurt, West Germany
1984	Herbert S. Steuer Memorial Award, Department of Developmental Genetics and Anatomy, Case Western Reserve University, Cleveland, OH
1985 - 1987	Postdoctoral Fellowship, Cystic Fibrosis Foundation
1993 - 1997	Pew Scholar in the Biomedical Sciences
2013	Thomas L. Noffsinger Investigator Award, University of Kansas Medical Center Research Institute

**II. TEACHING ACTIVITIES** (Evaluations and other evidence of quality of teaching must be attached; this represents the teacher's portfolio and should accurately summarize ALL of your teaching activities)

Brief statement of areas of teaching interest

In medical education, my teaching focus is in the area of cell biology and physiology of gastrointestinal cells and tissues. In graduate education, I focus on the cell biology of the eukaryotic cell secretory pathway.

1. Instruction:

Didactic (e.g.: lectures and formal presentations)

<u>Year</u>	<u>Course</u>	<u>Title</u>	<u>Type</u>	<u>Hours</u>	<u>No.</u>	<u>Type</u>
1991-99	ATMY 830	Cell & Tissue Biology	Lecture	4	175	Medical
1993-97	ANAT 860	Cell Structure	Lecture	4	15	Grad.
1998	ANAT 893	IGPBS Module 4	Lecture	3	15	Grad.
1999-	ANAT 893	IGPBS Module 4	Lecture	6	20	Grad.
1999-2007	ANAT	IGPBS Module 5	Lecture	6	15	Grad.
2000-05	ATMY 832	Cell & Tissue Biology	Lecture	3	175	Medical
2006-08	CORE 820	GI & Nutrition	Lecture	4	175	Medical
2009-	CORE 820	GI & Nutrition	Lecture	6	175	Medical

Nondidactic (e.g.: workshops, labs and discussion groups)

<u>Year</u>	<u>Course</u>	<u>Title</u>	<u>Type</u>	<u>Hours</u>	<u>No.</u>	<u>Type</u>
1991-93	ATMY 830	Cell & Tissue Biology	Lab	55	30	Medical
1994	ATMY 830	Cell & Tissue Biology	Lab	27	30	Medical
1995	ATMY 830	Cell & Tissue Biology	Lab	24	30	Medical
1996-97	ATMY 830	Cell & Tissue Biology	Lab	18	30	Medical
1998	ANAT 893	IGPBS Module 4	Lab	8	15	Grad.
1998	ATMY 832	Cell & Tissue Biology	Lab	33	30	Medical
1999	ATMY 832	Cell & Tissue Biology	Lab	18	30	Medical
2000	ANAT 900	Analysis of Scientific Papers	Discus- sion	11	15	Grad.

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<u>Year</u>	<u>Course</u>	<u>Title</u>	<u>Type</u>	<u>Hours</u>	<u>No.</u>	<u>Type</u>
2000 2002 2004 2006 2008 2010 2012	ANAT 880	Graduate Histology	Lab	2	15	Grad.
2000-01	ATMY 832	Cell & Tissue Biology	Lab	12	30	Medical
2002-06	ATMY 832	Cell & Tissue Biology	Lab	30	30	Medical
2007-	CORE 820	GI & Nutrition	Lab	24	30	Medical

Clinical

<u>Year</u>	<u>Hours</u>	<u>No.</u>	<u>Type</u>	<u>Length of Service</u>

Master's Theses and PhD. Dissertations directed

<u>Year</u>	<u>Student Name</u>	<u>Thesis title</u>	<u>Degree (Completed /In process)</u>

Supervision of Postdoctoral fellows

<u>Year</u>	<u>Fellow Name</u>	<u>Area of Study</u>
1993-94	Subramanian Venkateswaran, Ph.D.	Cell and molecular biology
1994-95	Abdulkaki Agbas, Ph.D.	Cell and molecular biology
2000-02	Chanderdeep Tandon, Ph.D.	Cell and molecular biology
2001-02	Simran Kaur, Ph.D.	Pathophysiology
2002-04	Oxana Norkina, M.D.	Pathophysiology
2003-05	Igor Boulatnikov, Ph.D.	Cell and molecular biology

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Advising (Thesis or dissertation committees: student academic group/individual)

<u>Date</u>	<u>Student or group name</u>	<u>Type of Student/group</u>
1991-93	Zoia Muresan	Graduate
1991	Virgil Muresan	Graduate
1991	Dale Hogan	Graduate
2006-09	Benjamin Weaver	Graduate
2011-12	Jessica Williams	Graduate

Other teaching activities

<u>Date</u>	<u>Title, Student name</u>	<u>Place</u>	<u>Teaching function</u>
1991	Lab rotation, Darren Fuqua, undergraduate student	KUMC	Training in bench research
1991	Lab rotation, Qing Li, graduate student	KUMC	Training in bench research
1992	Lab rotation, Sharon Houlihan, high school student	KUMC	Training in bench research
1994	Lab rotation, Laura Myehre, undergraduate student	KUMC	Training in bench research
1995	Lab rotation, Shelly Griffiths, undergraduate student	KUMC	Training in bench research
1996	Lab rotation, Rina Bansal, undergraduate student	KUMC	Training in bench research
1997	Lab rotation, Jennifer Frazer, undergraduate student	KUMC	Training in bench research
1999	Lab rotation, Christopher Knoblock, undergraduate student	KUMC	Training in bench research
2000	Lab rotation, Joanie Kenney, undergraduate student	KUMC	Training in bench research
2003	Lab rotation, Nicholas McWilliams, KU School of Allied Health undergraduate K-BRIN Star Trainee	KUMC	Training in bench research

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<u>Date</u>	<u>Title, Student name</u>	<u>Place</u>	<u>Teaching function</u>
2005	Lab rotation, John Leese, undergraduate student	KUMC	Training in bench research

2. Development of Educational Materials  
(course materials e.g. syllabi, educational software packages, Web sites, films, educational tapes and evaluation tools)

<u>Year</u>	<u>Title Description</u>	<u>Intended Audience</u>
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3. Educational Leadership  
(responsibility for courses and other leadership activities including mentoring of junior faculty. Please list faculty members mentored - letters from mentorees may be provided.)

<u>Year</u>	<u>Activity</u>
1997-2001	Admissions and Advisory Committees of the IGPBS graduate program
1999-2007	Co-Director IGPBS Module 5

**III. RESEARCH and SCHOLARLY ACTIVITIES:**

Brief statement of areas of research and scholarly interest, including current projects:

1. Pathophysiology of cystic fibrosis in the gastrointestinal system. Using a mouse deficient in the CF gene product (CFTR), exploring the role of bacterial overgrowth of the small intestine on inflammation, abnormal body weight gain, altered intestinal motility, and developmental aspects of the intestinal epithelium in the affected mice.
2. Effects of bacterial dysbiosis on stem cell differentiation to absorptive enterocytes.

1. Grants and contracts  
(Information must include whether the nominee is the principal investigator or a co-investigator, names of all investigators, title of grant, funding source, dollar amount in direct costs, and years during which grant applies. Co-investigators must specify role). Provide four copies of abstracts and award notice or renewal for all grants or

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contracts awarded in last five years.

Grants and contracts awarded: (List in chronological order)

<b>Principal Investigator</b>	<b>Co-Investigators</b>	<b>Title of Grant</b>	<b>Funding Source</b>	<b>Direct Costs</b>	<b>Years</b>	<b>Status</b>
		Predoctoral training grant	NIH GM 07225-06		1979-1981	Completed
		Predoctoral training grant	NIH HL 07415-05		1981-1984	Completed
<b>De Lisle R.C.</b>		Postdoctoral research fellowship	Cystic Fibrosis Foundation		1985-1987	Completed
Yamada, T.		Gastrointestinal training grant	NIH DK 07007-12		1987-1988	Completed
Yamada, T.		Michigan Gastrointestinal Peptide Center, a Digestive Diseases core	NIH Pilot Project		1988	Completed
<b>De Lisle R.C.</b>		Pancreatic exocrine secretion	NIH FIRST Award GM 41388	\$350,000	1989-1993	Completed
<b>De Lisle R.C.</b>		Phenotypic changes in	NIH R01 DK 46594	\$368,000	1993-1997	Completed
<b>De Lisle R.C.</b>		Pew Scholar in the Biomedical Sciences	Pew Charitable Trusts	\$184,000	1993-1997	Completed
<b>De Lisle R.C.</b>		Pilot project research grant	Cystic Fibrosis Foundation	\$60,000	1995-1997	Completed
Andrews, G.	<b>De Lisle R.C., Sarras, M.P., Jr.</b>	Acute pancreatitis, roles of metallothionine	NIH R01 AA 50181	\$336,000	1995-1998	Completed

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<b>Principal Investigator</b>	<b>Co-Investigators</b>	<b>Title of Grant</b>	<b>Funding Source</b>	<b>Direct Costs</b>	<b>Years</b>	<b>Status</b>
<b>De Lisle</b> R.C.		Intramural grant from the University of Kansas Research	KU RI	\$25,000	1999-2000	Completed
<b>De Lisle</b> R.C.		Pathogenesis of cystic fibrosis in the GI system	NIH RO1 DK 56791	\$540,000	2000-2004	Completed
<b>De Lisle</b> R.C.		Enzyme packaging in normal and diseased pancreas	NIH RO1 DK 55998	\$645,000	2000-2005	Completed
<b>De Lisle</b> R.C.		Transgenic mouse models of pancreatic exocrine function	NIH R21 DK 60769	\$200,000	2002-2004	Completed
<b>De Lisle</b> R.C.		K-INBRE Pilot Grant	NIH	\$35,000	2005	Completed
<b>De Lisle</b> R.C.		Lied Pilot Grant	University of Kansas Research Institute	\$35,000	2005	Completed
<b>De Lisle</b> R.C.		Altered Eicosanoid Metabolism and Inflammation of the CF Small Intestine	Cystic Fibrosis Foundation DELISL05G0	\$194,400	2005-2007	Completed
<b>De Lisle</b> R.C.		Mucus accumulation and bacterial overgrowth in the small intestine	Cystic Fibrosis Foundation DELISL06G0/DELISL08G0	\$270,000	2006-2009	Completed
Abrahamson, D.R.  ( <b>De Lisle</b> R.C., PI of pilot project)		Developmentally impaired motor activity in the cystic fibrosis small intestine	NIH-funded COBRE Pilot Grant in Developmental Biology 1P20 RR024214	\$40,000	2008-2010	Completed
<b>De Lisle</b> R.C.		Amitiza to improve gastrointestinal complications of cystic fibrosis	Takeda Pharmaceuticals 07-010	\$55,047	2007-2009	Completed



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Principal Investigator	Co-Investigators	Title of Grant	Funding Source	Direct Costs	Years	Status
De Lisle R.C.		Addenda to Amitiza to improve gastrointestinal complications of cystic fibrosis	Takeda Pharmaceuticals 07-010A	\$48,032	2010-2011	Completed
De Lisle, R.C.		Absorptive enterocytes are functionally immature in the CF intestine	Lied Pilot Grant, KUMC Research Institute	\$30,000	2013-2014	Active

Grants and contracts submitted or in preparation:

Principal Investigator	Co-Investigators	Title of Grant	Funding Source	Direct Costs	Years	Status
De Lisle, R.C.		Absorptive enterocytes are functionally immature in the CF intestine	Cystic Fibrosis Foundation	\$180,000	2013-2014	Not funded; revision under review
De Lisle, R.C.		Microbiota and enterocyte differentiaion	NIH	\$375,000	2014 - 2017	Under review

2. Scholarly Publications Full length, peer-reviewed articles in scientific journals: (Provide names of all authors, year, title, journal, volume, and inclusive pages. List in chronological order.)

Articles published: **(Provide 4 copies of each peer-reviewed article published within the last five years. Other articles may be provided at the applicant's discretion.)**

- 1 Will,P.C., **R.C.DeLisle**, R.N.Cortright, and U.Hopfer. 1981. Induction of amiloride-sensitive sodium transport in the intestines by adrenal steroids. Ann New York Acad Sci 372:64-78.
- 2 **De Lisle,R.C.**, I.Schulz, T.Tyrakowski, W.Haase, and U.Hopfer. 1984. Isolation of stable pancreatic zymogen granules. Am J Physiol 246:G411-G418
- 3 Will,P.C., R.N.Cortright, **R.C.DeLisle**, J.G.Douglas, and U.Hopfer. 1985. Regulation of amiloride-sensitive electrogenic sodium transport in the rat colon by steroid hormones. Am J Physiol 248:G124-G132
- 4 **De Lisle,R.C.** and U.Hopfer. 1986. Electrolyte transport properties of pancreatic zymogen granules: implications for pancreatic secretion. Am J Physiol

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250:G489-G496

- 5 **De Lisle, R.C.** and J.A.Williams. 1987. Zymogen granule acidity is not required for stimulated pancreatic protein secretion. *Am J Physiol* 253:G711-G719
- 6 **De Lisle, R.C.**, R.Steinberg, and J.A.Williams. 1988. Zymogen granules of mouse parotid acinar cells are acidified in situ in an ATP-dependent manner. *Cell Tissue Res* 253:267-269.
- 7 **De Lisle, R.C.**, C.D.Logsdon, S.R.Hootman, and J.A.Williams. 1988. Monoclonal antibodies as probes for plasma membrane domains in the exocrine pancreas. *J Histochem Cytochem* 36:1043-1051.
- 8 Kitagawa, M., J.A.Williams, and R.C.**De Lisle**. 1990. Amylase release from streptolysin O permeabilized pancreatic acini. *Am J Physiol: Gastrointest and Liver Physiol* 259:G157-G164
- 9 **De Lisle, R.C.** and C.D.Logsdon. 1990. Pancreatic acinar cells in culture: expression of acinar and ductal antigens in a growth-related manner. *Eur J Cell Biol* 51:64-75.
- 10 **De Lisle, R.C.**, J.H.Grendell, and J.A.Williams. 1990. Growing pancreatic acinar cells (postpancreatitis and fetal) express a ductal antigen. *Pancreas* 5:381-388.
- 11 Kitagawa, M., J.A.Williams, and R.C.**De Lisle**. 1991. Interactions of intracellular mediators of amylase secretion in permeabilized pancreatic acini. *Biochim Biophys Acta* 1073:129-135.
- 12 **De Lisle, R.C.** 1991. A quantitative dot-blot immunoassay for integral membrane proteins: preparation of pancreatic plasma membranes containing both basolateral and apical markers. *Anal Biochem* 192:1-5.
- 13 Göke, B., J.A.Williams, M.J.Wishart, and R.C.**De Lisle**. 1992. Low molecular mass GTP-binding proteins in subcellular fractions of the pancreas: regulated phosphoryl G-proteins. *Am J Physiol: Cell Physiol* 262:C493-C500
- 14 **De Lisle, R.C.** 1994. Characterization of the major sulfated protein of mouse pancreatic acinar cells: a high molecular weight peripheral membrane glycoprotein of zymogen granules. *J Cell Biochem* 56:385-396.
- 15 **De Lisle, R.C.** 1995. Increased expression of sulfated gp300 and acinar tissue pathology in pancreas of CFTR(-/-) mice. *Am.J.Physiol.Gastrointest.Liver Physiol.* 268:G717-G723
- 16 **De Lisle, R.C.** and G.W.Howell. 1995. Evidence of heterotrimeric G-protein involvement in regulated exocytosis from permeabilized pancreatic acini. *Pancreas* 10:374-381.
- 17 Fu, K., M.P.Sarras, Jr., **R.C.De Lisle**, and G.K.Andrews. 1996. Regulation of mouse pancreatitis-associated protein-I gene expression during caerulein-induced acute pancreatitis. *Digestion* 57:333-340.
- 18 **De Lisle, R.C.** and R.Bansal. 1996. Brefeldin A inhibits the constitutive-like secretion of a sulfated protein in pancreatic acinar cells. *Eur.J.Cell Biol.* 71:62-71.
- 19 **De Lisle, R.C.** and K.S.Isom. 1996. Expression of sulfated gp300 and changes in glycosylation during pancreatic development. *J.Histochem.Cytochem.*

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44:57-66.

- 20 **De Lisle, R.C.**, M.P.Sarras, Jr., J.Hidalgo, and G.K.Andrews. 1996. Metallothionein is a component of exocrine pancreas secretion: Implications for zinc homeostasis. *Am.J.Physiol.Cell Physiol.* 271:C1103-C1110
- 21 Fu, K., M.P.Sarras, Jr., **R.C.De Lisle**, and G.K.Andrews. 1997. Expression of oxidative stress-responsive genes and cytokine genes during caerulein-induced acute pancreatitis. *Am.J.Physiol* 273:G696-G705
- 22 **De Lisle, R.C.**, M.Petitt, J.Huff, K.S.Isom, and A.Agbas. 1997. MUCLIN expression in the cystic fibrosis transmembrane conductance regulator knockout mouse. *Gastroenterology* 113:521-532.
- 23 Fu, K., T.Tomita, M.P.Sarras, Jr., **R.C.De Lisle**, and G.K.Andrews. 1998. Metallothionein protects against cerulein-induced acute pancreatitis: analysis using transgenic mice. *Pancreas* 17:238-246.
- 24 **De Lisle, R.C.**, M.Petitt, K.S.Isom, and D.Ziemer. 1998. Developmental expression of a mucinlike glycoprotein (MUCLIN) in pancreas and small intestine of CF mice. *Am.J.Physiol.Gastrointest.Liver Physiol.* 275:G219-G227
- 25 **De Lisle, R.C.** and D.Ziemer. 2000. Processing of pro-Muclin and divergent targeting of its products to zymogen granules and the apical plasma membrane of pancreatic acinar cells. *Eur J Cell Biol* 79:892-904.
- 26 **De Lisle, R.C.**, K.S.Isom, D.Ziemer, and C.U.Cotton. 2001. Changes in the exocrine pancreas secondary to altered small intestinal function in the CF mouse. *Am.J.Physiol Gastrointest.Liver Physiol* 281:G899-G906
- 27 **De Lisle, R.C.** 2002. Role of sulfated O-linked glycoproteins in zymogen granule formation. *J.Cell Sci.* 115:2941-2952.
- 28 Sun, F.S., S.Kaur, D.Ziemer, S.Banerjee, L.C.Samuelson, and **R.C.De Lisle**. 2003. Decreased gastric bacterial killing and upregulation of protective genes in the small intestine in the gastrin deficient mouse. *Dig Dis Sci* 48:976-985.
- 29 Tandon, C. and **R.C.De Lisle**. 2004. Apactin is involved in remodeling of the actin cytoskeleton during regulated exocytosis. *Eur J Cell Biol* 83:79-89.
- 30 Norkina, O., S.Kaur, D.Ziemer, and **R.C.De Lisle**. 2004. Inflammation of the cystic fibrosis mouse small intestine. *Am.J.Physiol Gastrointest.Liver Physiol* 286:G1032-G1041
- 31 Norkina, O., T.G.Burnett, and **R.C.De Lisle**. 2004. Bacterial overgrowth in the cystic fibrosis transmembrane conductance regulator null mouse small intestine. *Infect.Immun.* 72:6040-6049.
- 32 Kaur, S., O.Norkina, D.Ziemer, L.C.Samuelson, and **R.C.De Lisle**. 2004. Acidic duodenal pH alters gene expression in the cystic fibrosis mouse pancreas. *Am J Physiol Gastrointest Liver Physiol* 286:G480-G490
- 33 Boulatnikov, I. and **R.C.De Lisle**. 2004. Binding of the Golgi sorting receptor Muclin to pancreatic zymogens through sulfated O-linked oligosaccharides. *J Biol Chem* 279:40918-40926.
- 34 Norkina, O. and **R.C.De Lisle**. 2005. Potential genetic modifiers of the cystic fibrosis intestinal inflammatory phenotype on mouse chromosomes 1, 9, and 10.

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BMC.Genet. 6:29

35 **De Lisle,R.C.** 2005. Altered posttranslational processing of glycoproteins in cerulein-induced pancreatitis. *Exp.Cell Res.* 308:101-113.

36 **De Lisle,R.C.**, O.Norkina, E.Roach, and D.Ziemer. 2005. Expression of pro-Muclin in pancreatic AR42J cells induces functional regulated secretory granules. *Am.J Physiol Cell Physiol* 289:C1169-C1178

37 Norkina,O., R.Graf, P.Appenzeller, and **R.C.De Lisle**. 2006. Caerulein-Induced Acute Pancreatitis in Mice that Constitutively Overexpress Reg/PAP Genes. *BMC.Gastroenterol.* 6:16-

38 Magenheimer,B.S., P.L.St John, K.S.Isom, D.R.Abrahamson, **R.C.De Lisle**, D.P.Wallace, R.L.Maser, J.J.Grantham, and J.P.Calvet. 2006. Early Embryonic Renal Tubules of Wild-Type and Polycystic Kidney Disease Kidneys Respond to cAMP Stimulation with Cystic Fibrosis Transmembrane Conductance Regulator/Na<sup>+</sup>,K<sup>+</sup>,2Cl<sup>-</sup> Co-Transporter-Dependent Cystic Dilatation. *J Am.Soc.Nephrol.* 17:3424-3437.

39 **De Lisle,R.C.**, E.A.Roach, and O.Norkina. 2006. Eradication of small intestinal bacterial overgrowth in the cystic fibrosis mouse reduces mucus accumulation. *J Pediatr Gastroenterol Nutr* 42:46-52.

40 Tandon,C., **R.C.De Lisle**, I.Boulatnikov, and P.K.Naik. 2007. Interaction of carboxyl-terminal peptides of cytosolic-tail of apectin with PDZ domains of NHERF/EBP50 and PDZK-1/CAP70. *Mol.Cell.Biochem.* 302:157-167.

41 **De Lisle,R.C.** 2007. Altered Transit and Bacterial Overgrowth in the Cystic Fibrosis Mouse Small Intestine. *Am.J.Physiol Gastrointest.Liver Physiol* 293:G104-G111

42 **De Lisle,R.C.**, E.Roach, and K.Jansson. 2007. Effects of laxative and N-acetylcysteine on mucus accumulation, bacterial load, transit, and inflammation in the cystic fibrosis mouse small intestine. *Am J Physiol Gastrointest Liver Physiol* 293:G577-G584

43 **De Lisle,R.C.**, W.Xu, B.A.Roe, and D.Ziemer. 2008. Effects of Muclin (Dmbt1) Deficiency on the Gastrointestinal System. *Am J Physiol Gastrointest Liver Physiol* 294:G717-G727

44 **De Lisle R.C.**, Meldi, L., Flynn, M., and Jansson, K. 2008. Altered eicosanoid metabolism in the cystic fibrosis mouse small intestine. *Journal of Pediatric Gastroenterology and Nutrition.* 47:406-416.

45 **De Lisle R.C.**, Meldi L, Roach E, Flynn M and Sewell R. Mast cells and gastrointestinal dysmotility in the cystic fibrosis mouse. 2009. *PLoS ONE* 4: e4283.

46 **De Lisle R.C.**, R. Sewell, Meldi, L. Enteric circular muscle dysfunction in the cystic fibrosis mouse small intestine. 2010. *Neurogastroenterol.Motil.* 22: 341-e87.

47 **De Lisle R.C.**, Meldi L., Mueller R., and Roach E. 2010. Lubiprostone ameliorates the cystic fibrosis mouse intestinal phenotype. *BMC Gastroenterology* 10: 107.

48 **De Lisle R.C.**, Mueller R., and Boyd M. 2011. Impaired mucosal barrier function in the small intestine of the cystic fibrosis mouse. *Journal of Pediatric*

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Gastroenterology and Nutrition. 53:371-379

49 Wouthuyzen-Bakker M, Bijvelds MJ, de Jong H, **De Lisle RC**, Burgerhof JG and Verkade HJ. Effect of antibiotic treatment on fat absorption in mice with cystic fibrosis. *Pediatr Res* 71: 4-12, 2012.

50 Geiser J., Venken K.J.T., **De Lisle R.C.**, Andrews G.K. A Mouse Model of Acrodermatitis Enteropathica: The Zinc Transporter ZIP4 (Slc39a4) Regulates the Intestine Stem Cell Niche and Intestine Integrity. *PLoS Genetics*. 8:e1002766, 2012.

51 **De Lisle R.C.**, Mueller R., Meldi L. Intestinal smooth muscle dysfunction develops postnatally in cystic fibrosis mice. *Journal of Pediatric Gastroenterology and Nutrition* 55:689-694, 2012.

52 **De Lisle RC**. Lubiprostone stimulates small intestinal mucin release. *BMC Gastroenterol* 12: 156, 2012.

53 Lynch SV, Goldfarb KC, Wild Y, Kong W, **De Lisle RC** and Brodie EL. Cystic fibrosis transmembrane conductance regulator knockout mice exhibit aberrant gastrointestinal microbiota. *Gut Microbes* 4: 41-47, 2013.

54 Pondugula, SR, Kampalli, SB, Wu T, **De Lisle RC**, Raveendran, NN, Harbidge, DG and Marcus DC. cAMP-stimulated Cl<sup>-</sup> secretion is increased by glucocorticoids and inhibited by bumetanide in semicircular canal duct epithelium. *BMC Physiology* 13:6, 2013.

55 Geiser J, **De Lisle RC**, Finkelstein D, Adlard PA, Bush AI, Andrews GK. Clotrimazole synergistically augments rescue by zinc supplementation in a mouse model of acrodermatitis enteropathica. *PLoS ONE* 8:e72543, 2013.

56. **De Lisle RC**. Disrupted tight junctions in the small intestine of cystic fibrosis mice. *Cell Tissue Res* (ePub ahead of print).

57. Geiser J, **De Lisle RC** and Andrews GK. The zinc transporter Zip5 (Slc39a5) regulates intestinal zinc excretion and protects the pancreas against zinc toxicity. *PLoS ONE* 8:e72543.

Manuscripts in press: (Provide names of all authors, title, journal, and **4 photocopies of manuscript plus evidence of acceptance by journal**)

Manuscripts submitted but not yet accepted: (Provide names of all authors, title, journal, and **4 photocopies plus evidence of receipt of manuscript by journal.**)

Manuscripts in Preparation:

1. **De Lisle RC**. Absorptive enterocytes are poorly differentiated in the cystic fibrosis mouse small intestine.

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Invited or non-peer-reviewed articles or reviews: **(Provide names of all authors, year, title, journal, volume, and pages. If in press, provide documentation and 4 photocopies if published within the last five years.)**

1. **De Lisle, RC**, and Williams JA. (1986) Regulation of membrane fusion in secretory exocytosis. *Annu Rev Physiol* 48: 225-238.
2. Hootman SR and **De Lisle RC**. (1987) Ionic mechanisms of exocrine pancreatic secretion. In *Epithelial Ion Transport in Cystic Fibrosis*. Martinez, J.R., ed. Proc Conf Univ Missouri School of Medicine, Columbia, MO, pp 107-122
3. **De Lisle RC** (1993) A plethora of GTPases, large and small. *Digestion* 54: 3-8.
4. Borowitz D, Durie PR, Clarke LL, Werlin SL, Taylor CJ, Semler J, **De Lisle RC**, Lewindon P, Lichtman SM, Sinaasappel M, Baker RD, Baker SS, Verkade HJ, Lowe ME, Stallings VA, Janghorbani M, Butler R, and Heubi J. [for all Participants of the Cystic Fibrosis Foundation Workshop] (2005) Gastrointestinal Outcomes and Confounders in Cystic Fibrosis. *J. Pediatr. Gastroenterol. Nutr.* 41: 273-285.
5. **De Lisle, RC** (2009) Pass the bicarb: The importance of HCO<sub>3</sub><sup>-</sup> for mucin release. *J. Clin. Invest.* (Invited Commentary) 119: 2535-2537.
6. **De Lisle RC** and Borowitz D. (2013) The CF Intestine. In: *Cystic Fibrosis: A Trilogy of Biochemistry, Physiology, and Therapy*, edited by Riordan R, Boucher RC and Quinton PM. Woodbury, NY, USA: Cold Spring Harbor Laboratory Press, doi: 10.1101/cshperspect.a009753

Books and book chapters: **(Provide names of all authors, year, book title, chapter title, edition, publisher, and pages. If in press, provide documentation and 4 photocopies if published the last five years.)**

1. **De Lisle RC** (1984) Electrolyte transport properties of pancreatic zymogen granules. Case Western Reserve University, Cleveland, OH, Ph.D. Dissertation.

Published abstracts: (Provide names of all authors, year, title, where published, volume, and pages.)

1. Cortright, R.N., P.C. Will, M.E. Barnett, **R.C. De Lisle**, and U. Hopfer. (1982) Glucocorticoid actions on sodium transport in the rat colon are independent of insulin. *Fed Proc* 41: 1684.
2. **De Lisle, R.C.**, I. Schulz, and U. Hopfer. (1983) Isolation of stable pancreatic zymogen granules. *Fed Proc* 42: 1278.
3. **De Lisle, R.C.**, and U. Hopfer. (1983) Electrolyte permeabilities of pancreatic zymogen granules. *J Cell Biol* 97: 171a.
4. **De Lisle, R.C.**, S.R. Hootman, and J.A. Williams. (1986) Monoclonal

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antibodies to different plasma membrane domains of the exocrine pancreas. Fed Proc 45: 1043.

5. **De Lisle, R.C.**, and J.A. Williams. (1986) Hormone-stimulated protein secretion is not inhibited by collapse of the zymogen granule pH gradient in pancreatic acini. J Cell Biol 103: 457a.
6. **De Lisle, R.C.**, and C.D. Logsdon. (1987) Pancreatic acinar cells in culture sequentially express acinar, ductal, and then acinar phenotypes: a monoclonal antibody study. J Cell Biol 105: 253a.
7. **De Lisle, R.C.**, J.H. Grendell, and J.A. Williams (1988) Growing pancreatic acinar cells express a ductal antigen. J Cell Biol 107: 138a.
- Kitagawa, M., J.A. Williams, and **R.C. De Lisle** (1989) Amylase secretion from streptolysin-O permeabilized pancreatic acini. Pancreas 4: 623.
8. **De Lisle, R.C.** (1989) Initial characterization of a 230 kDa zymogen granule peripheral membrane protein. J Cell Biol 109: 294a.
9. **De Lisle, R.C.** (1990) p230, a zymogen granule peripheral membrane protein, is the major sulfated protein of the pancreatic acinar cell. J Cell Biol 111: 318a.
10. **De Lisle, R.C.**, J.A. Williams, M.J. Wishart, and B. Göke (1991) Small GTP-Binding Proteins of Exocrine Pancreas: Subcellular Distribution and Regulated Phosphorylation. J Cell Biol 115: 258a.
11. **De Lisle, R.C.**, and G.W. Howell (1993) Heterotrimeric G-protein involvement in regulated exocytosis in permeabilized pancreatic acini. Pancreas 8: 752.
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13. **De Lisle, R.C.** (1994) Developmental expression of sulfated gp300 in mouse pancreas. Pancreas 9: 784.
14. **De Lisle, R.C.** (1994) Expression of gp300 in mouse pancreas parallels zymogen granule formation. Mol Biol Cell 5: 367a.
15. **De Lisle, R.C.**, and R. Bansal (1995) Secretion kinetics of sulfated proteins in the mouse pancreatic acinar cell. Pancreas 11: 424.
16. Fu, K., Sarras, M.P., **De Lisle, R.C.**, and Andrews, G.K. (1995) Oxygen radicals in caerulein-induced acute pancreatitis. Mol Biol Cell 6: 334a.
17. **De Lisle, R.C.**, and R. Bansal (1995) Effects of Brefeldin A on secretory granule maturation in the mouse pancreatic acinar cell. Mol Biol Cell 6: 292a.
18. Rankin, C.A., M. Sarras, J.P. Calvet, and **R.C. De Lisle** (1995) The murine polycystic kidney disease gene, *cpk*, affects pancreatic development. J. Am. Soc. Nephrol. 6: 708.
19. **De Lisle, R.C.**, Petitt, M., Huff, J., and Isom, K. (1996) Increased expression and altered post-translational processing of Muclin in the gastrointestinal system of the CFTR(-/-) mouse. Mol. Biol. Cell 7S: 660a.
20. **De Lisle, R.C.**, Petitt, M., Huff, J., and Isom, K. (1996) Developmental

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upregulation of MUCLIN and its association with cystic fibrosis pathologies in the gastrointestinal system of the CFTR(-/-) mouse. *Pancreas* 13: 433.

21. **De Lisle, R.C.**, and Agbas, A. (1997) Biosynthesis of Muclin in the mouse pancreatic acinar cell. *Pancreas* 15:432. **Oral Presentation.**
22. **De Lisle, R.C.**, Ziemer, D., and Frazer, J. (1997) Intracellular targeting of the zymogen granule protein Muclin in AtT20 and AR42J cells. *Mol. Biol. Cell* 8:S 449a.
23. **De Lisle, R.C.**, Isom, K.S., Huff, J., and Ziemer, D. (1997) Muclin expression in the CFTR knockout mouse gastrointestinal system. *Pediatr. Pulmonol. Supplement* 14: 276. **Oral Presentation.**
24. **De Lisle, R.C.**, and D. Ziemer (1998) Phosphorylation-dependent binding of the C-Tail of Muclin-p80 to cytosolic proteins. *Mol.Biol.Cell* 9:S: 329a
25. **De Lisle, R.C.**, J. Zhang, and D. Ziemer. (1998) A GST fusion protein containing the cytosolic tail of Muclin-p80 binds a 70 kDa cytosolic protein in a phosphorylation-dependent manner. *Pancreas* 17: 430
26. **De Lisle, R.C.**, K.S. Isom, and C.U. Cotton (1999) Exocrine pancreatic function in the CF mouse in vitro and in vivo. *Pediatr. Pulmonol. Supplement* 19: 254.
27. **De Lisle, R.C.**, and D. Ziemer (1999) Targeting information in pro-Muclin: a putative Golgi cargo receptor. *Mol.Biol.Cell* 10:S: 303a.
28. **De Lisle, R.C.** (1999) Altered posttranslational processing of pro-Muclin in caerulein-induced pancreatitis. *Pancreas* 19: 418.
29. **De Lisle, R.C.**, Isom, K., Ziemer, D., Banerjee, S., and Cotton, C.U. (2000) Pancreatic function in the CFTR knockout mouse. *Pancreas* 21: 438. **Oral Presentation.**
30. **De Lisle, R.C.**, Isom, K., Ziemer, D., and Cotton, C.U. (2001) Increased signaling from the small intestine to the pancreas in the CF mouse. *Pediatr. Pulmonol. Supplement* 22:328. **Oral Presentation.**
31. **De Lisle, R.C.** (2001) Role of O-linked oligosaccharides in zymogen granule formation. *Pancreas* 23: 432.
32. Tanndon, C., and **De Lisle, R.C.** (2002) The C-Tail of pro-Muclin/p80 binds the cytoskeleton and phosphorylation regulates p80 turnover in pancreatic acini. *Gastroenterology* 122:A-167.
33. Tanndon, C., and **De Lisle, R.C.** (2002) Interactions of the cytosolic tail of p80 with the acinar cell actin cytoskeleton. *Pancreas* 25: 424. **Oral Presentation.**
34. **De Lisle, R.C.**, Isom, K., Norkina, O., Ziemer, D., and Kaur, S. (2003) The CF Mouse Small Intestine Exhibits an Innate Immune Response. *Gastroenterology* 124: A-498.
35. **De Lisle, R.C.**, Ziemer, D., and Norkina, O. (2003) Expression of the Golgi Sorting Receptor Muclin in Pancreatic AR42J Cells Induces Formation of Functional Secretory Granules. *Gastroenterology* 124: A-51. **Oral Presentation.**
36. Norkina, O., Kaur, S., Ziemer, D., Samuelson, L.C.; and **De Lisle R.C.** (2003) Pancreatic Gene Expression Is Regulated by the Acidic Duodenal pH in the



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- CF Mouse. *Pediatr. Pulmonol.* 37 Suppl 25: 337. **Oral Presentation.**
37. Magenheimer, B.S., St. John, P.L., Isom, K.S., Abrahamson, D.R., **De Lisle R.C.**, Wallace, D.P., Maser, R.L., Grantham, J.J., and Calvet, J.P. (2004) Cyclic AMP- and CFTR-dependent cystic dilation of embryonic renal tubules in metanephric organ culture. *J Am Soc Nephrol* 15: 541.
38. Boulatnikov, I., and **De Lisle R.C.** (2004) Direct Binding of the Golgi Cargo Receptor Muclin to Pancreatic Zymogens at Mildly Acidic pH. *Pancreas* 29: 329 **Oral Presentation.**
39. Norkina, O., Burnett, T.G., and **De Lisle R.C.** (2004) Bacterial Overgrowth in the CFTR Null Mouse Small Intestine. *Pediatric Pulmonology* 38 Suppl 27: 333. **Oral Presentation.**
40. **De Lisle R.C.** (2005) Altered Posttranslational Processing of Glycoproteins in Caerulein-induced Pancreatitis. *Gastroenterology* 128: A-43. **Oral Presentation.**
41. **De Lisle R.C.** and Norkina, O. (2005) Eradication of small intestinal bacterial overgrowth in the CFTR null mouse reduces mucus accumulation. *Pediatric Pulmonology* Suppl 28: 343. **Oral Presentation.**
42. Wu, T., Kampalli, S.B., **De Lisle R.C.**, and Marcus, D.C. (2006) CFTR Knockout Mice Demonstrate that CFTR Chloride Channel Mediates cAMP-stimulated Secretion In Semicircular Canal Duct Epithelium. *Association for Research in Otolaryngology.*
43. **De Lisle R.C.** (2006) Altered small intestinal transit is associated with small intestinal bacterial overgrowth in the CF mouse. *Pediatric Pulmonology* Suppl 29: 380.
44. **De Lisle R.C.**, Meldi, L. and Jansson, K. (2007) Altered eicosanoid metabolism in the CF mouse small intestine. *Pediatric Pulmonology* Suppl 30: 377. **Oral Presentation.**
45. **De Lisle R.C.** (2007) Slowed small intestinal transit is associated with bacterial overgrowth in the cystic fibrosis mouse. *Gastroenterology* 132: A-335.
46. **De Lisle R.C.**, Ziemer, D. (2008) Muclin (Dmbt1) Deficiency Slows Traffic of Regulated Secretory Protein in the Pancreatic Acinar Cell. *Gastroenterology* 134 Suppl 1: P-177.
47. **De Lisle R.C.**, Meldi, L. (2008) Impaired Enteric Circular Muscle Activity in the Cystic Fibrosis Mouse Small Intestine: Role of Prostaglandin E2. *Gastroenterology* 134 Suppl 1: A64. **Oral Presentation.**
48. Meldi, L. and **De Lisle R.C.** (2008) Postnatal Development of Pathophysiology in the CF Mouse Small Intestine. *Pediatric Pulmonology* Suppl.31: 293.
49. **De Lisle R.C.**, Meldi, L., Roach, E. (2009) Effects of Lubiprostone on the Cystic Fibrosis Mouse Small Intestine Phenotype. *Gastroenterology* 136, Suppl.1:472.
50. Ho, W-H.S., Aguero, R., Balamurugan, R., Bard, J., **De Lisle R.C.**, Lin, H.C. (2009) Molecular Evidence Supports Lactulose Breath Test in Detecting Small Intestinal Bacterial Overgrowth. *Gastroenterology* 136, Suppl.1:343.

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51. **De Lisle R.C.** (2010) Impaired mucosal barrier function in the small intestine of the cystic fibrosis mouse. *Gastroenterology* 138 Suppl 1: 548.
52. **De Lisle R.C.** (2010) Bacterial overgrowth and impaired mucosal barrier function in the small intestine of the CF mouse. *Pediatric Pulmonology* Suppl.33: 413. **Oral Presentation.**
53. **De Lisle R.C.**, Mueller, R. (2011) Disrupted tight junctions in the small intestine of the cystic fibrosis mouse. *Gastroenterology* 139 Suppl 1:682.
54. Wild Y, Goldfarb KC, **De Lisle RC**, Kong W, Brodie EL and Lynch SV. (2012) Cystic fibrosis transmembrane regulator knockout mice exhibit aberrant gastrointestinal microbiota. *Gastroenterology* 142: S-674.
55. De Lisle R.C. (2014) Absorptive enterocytes are poorly differentiated in the CFTR knockout mouse small intestine. *Gastroenterology* (Submitted).

Other scholarly publications

3. Presentations and posters

Oral paper presentations: (Provide names of all authors, title, sponsoring organization, extent of peer-review, and location and date of presentation.)

Scientific papers presented at national and international meetings:

- 1 "Expression of duct cell characteristics by acinar cells: Is the acinar cell terminally differentiated?", NIH Conference on "The Pancreatic Duct Cell", Baltimore, MD. Sept. 26-29, 1991. **Invited Participant**
- 2 "Transgenic models of cystic fibrosis and effects in the pancreas and gastrointestinal tract", *Frontiers in Pancreatic Research: from Basics to Clinics*, 28th Annual Meeting of Japan Pancreas Society, Nagoya, Japan, April 19, 1997. **Invited Participant**
- 3 **De Lisle, R.C.**, and Agbas, A. (1997) Biosynthesis of Muclin in the mouse pancreatic acinar cell. *Pancreas* 15:432. American Pancreatic Association. **Oral Presentation.**
- 4 **De Lisle, R.C.**, Isom, K.S., Huff, J., and Ziemer, D. (1997) Muclin expression in the CFTR knockout mouse gastrointestinal system. *Pediatr. Pulmonol. Supplement* 14: 276. North American Cystic Fibrosis Conference. **Oral Presentation.**
- 5 **De Lisle, R.C.**, Isom, K., Ziemer, D., Banerjee, S., and Cotton, C.U. (2000) Pancreatic function in the CFTR knockout mouse. *Pancreas* 21: 438. American Pancreatic Association. **Oral Presentation.**
- 6 **De Lisle, R.C.**, Isom, K., Ziemer, D., and Cotton, C.U. (2001) Increased signaling from the small intestine to the pancreas in the CF mouse. *Pediatr. Pulmonol. Supplement* 22:328. North American Cystic Fibrosis Conference. **Oral**

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**Presentation.**

7 Tanndon, C., and **De Lisle, R.C.** (2002) Interactions of the cytosolic tail of p80 with the acinar cell actin cytoskeleton. *Pancreas* 25: 424. American Pancreatic Association. **Oral Presentation.**

8 **De Lisle, R.C.**, Ziemer, D., and Norkina, O. (2003) Expression of the Golgi Sorting Receptor Muclin in Pancreatic AR42J Cells Induces Formation of Functional Secretory Granules. *Gastroenterology* 124: A-51. American Gastroenterological Association/Digestive Diseases Week. **Oral Presentation.**

9 Norkina, O., Kaur, S., Ziemer, D., Samuelson, L.C.; and **De Lisle R.C.** (2003) Pancreatic Gene Expression Is Regulated by the Acidic Duodenal pH in the CF Mouse. *Pediatr. Pulmonol.* 37 Suppl 25: 337. North American Cystic Fibrosis Conference. **Oral Presentation.**

10 Boulatnikov, I., and **De Lisle R.C.** (2004) Direct Binding of the Golgi Cargo Receptor Muclin to Pancreatic Zymogens at Mildly Acidic pH. *Pancreas* 29: 329. American Pancreatic Association. **Oral Presentation.**

11 Norkina, O., Burnett, T.G., and **De Lisle R.C.** (2004) Bacterial Overgrowth in the CFTR Null Mouse Small Intestine. *Pediatric Pulmonology* 38 Suppl 27: 333. North American Cystic Fibrosis Conference. **Oral Presentation.**

12 **De Lisle R.C.** (2005) Altered Posttranslational Processing of Glycoproteins in Caerulein-induced Pancreatitis. *Gastroenterology* 128: A-43. American Gastroenterological Association/Digestive Diseases Week. **Oral Presentation.**

13 **De Lisle R.C.** (2005) "Bacterial overgrowth and intestinal inflammation", Cystic Fibrosis Foundation Workshop, Outcomes and Confounders in Studies of Malabsorption in CF; **Member of the organizing committee and Invited Participant.**

14 **De Lisle R.C.** and Norkina, O. (2005) Eradication of small intestinal bacterial overgrowth in the CFTR null mouse reduces mucus accumulation. North American Cystic Fibrosis Conference. *Pediatric Pulmonology* Suppl 28: 343. **Oral Presentation.**

15 **De Lisle R.C.** (2006) Regulation of Intestinal and Pancreatic Disease by CFTR. American Gastroenterological Association/Digestive Diseases Week, AGA Translational Symposium on CFTR and Secretory Diarrhea - Lessons from Animal Models. **Invited Oral Presentation.**

16 **De Lisle R.C.** (2006) Altered small intestinal transit is associated with small intestinal bacterial overgrowth in the CF mouse. North American Cystic Fibrosis Conference. *Pediatric Pulmonology* Suppl 29: 380.

17 **De Lisle R.C.**, Meldi, L. and Jansson, K. (2007) Altered eicosanoid metabolism in the CF mouse small intestine. North American Cystic Fibrosis Conference. *Pediatric Pulmonology* Suppl 30: 377. **Oral Presentation.**

18 **De Lisle R.C.** (2007) Slowed small intestinal transit is associated with bacterial overgrowth in the cystic fibrosis mouse. *Gastroenterology* 132: A-335. **De Lisle R.C.** (2007) Small Intestinal Bacterial Overgrowth in the CF mouse: Roles of Mucus and Motility. North American Cystic Fibrosis Conference, Symposium 10:

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Mucosal Pathogen Interactions. **Invited Oral Presentation.**

19 **De Lisle R.C.**, Meldi, L. (2008) Impaired Enteric Circular Muscle Activity in the Cystic Fibrosis Mouse Small Intestine: Role of Prostaglandin E2.

Gastroenterology, In Press. American Gastroenterological Association/Digestive Diseases Week. **Oral Presentation.**

20 **De Lisle R.C.** (2008) Small Bowel Overgrowth and Mucosal Disease in CF Mouse. North American Cystic Fibrosis Conference, Symposium 5: "Gastrointestinal Problems in CF". **Invited Oral Presentation.**

21 **De Lisle R.C.** (2010) Bacterial overgrowth and impaired mucosal barrier function in the small intestine of the CF mouse. North American Cystic Fibrosis Conference, Pediatric Pulmonology Suppl.33: 413. **Oral Presentation.**

22 "Pathophysiologic studies of intestinal dysfunction", Symposium at the 2011 North American Cystic Fibrosis Conference, November 5, 2011, Anaheim, CA, **Invited Oral Presentation.**

23 "The intestinal pathophysiology in CF animals", Cystic Fibrosis Symposium at the annual meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), Stockholm, Sweden, April 27-28, 2012.

**Invited Oral Presentation.**

24 "The gut microbiome in CF", Session: *The pulmonary and intestinal microbiome in CF*. 36th European CF Conference, Lisbon, Portugal, June 12-15, 2013

Other:

Invited Moderator, "How is Intestinal Function Impaired in CF?", Rise 'n Shine and Luncheon Roundtable sessions, North American Cystic Fibrosis Conference, November 5, 2011, Anaheim, CA.

Invited Moderator, "How is Intestinal Function Impaired in CF?", Rise 'n Shine and Luncheon Roundtable sessions, North American Cystic Fibrosis Conference, October 13, 2012, Orlando, FL.

Scientific papers presented at local and regional meetings and Universities:

1 "Pancreatic Acinar Cell Exocytosis" Department of Biochemistry, University of Kansas Medical Center, September 28, 1990

2 "Sulfate metabolism and the secretory pathway in the pancreatic acinar cell." Department of Anatomy and Cell Biology, University of Kansas Medical Center, October 14, 1992.

3 "Sulfate metabolism and the secretory pathway in the pancreatic acinar cell." Dept. of Physiology and Cell Biology, University of Kansas, Lawrence, March 29,

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1993

- 4 "Sulfated gp300 and the Cystic Fibrosis Mouse" Department of Anatomy and Cell Biology, University of Kansas Medical Center, September 21, 1995
- 5 "Sulfated gp300 and the Cystic Fibrosis Mouse" Department of Physiology and Cell Biology, University of Kansas, Lawrence, October 2, 1995
- 6 "Effects of Brefeldin A on Post-Golgi Protein Transport in the Regulated Secretory Pathway" Department of Biochemistry and Molecular Biology, University of Kansas Medical Center, February 21, 1995
- 7 "gp300, a Sulfated Mucin-Like Glycoprotein of the Gastrointestinal System, Studied in Normal and CFTR(-/-) Mice." Department of Physiology, University of Kansas Medical Center, March 4, 1996
- 8 "Metallothionein is a Component of Exocrine Pancreas Secretion: Implications for Zinc Homeostasis" KUMC Sigma Xi Chapter, October 23, 1996
- 9 "Expression of a Mucin-Like Glycoprotein (MUCLIN) in the Gastrointestinal System of the Cystic Fibrosis Mouse", KUMC Sigma Xi Chapter, November 19, 1997
- 10 "Signaling from the Small Intestine to the Exocrine Pancreas in the Cystic Fibrosis Mouse" Kansas City VA Medical Center, July 16, 2003.
- 11 "Insights into the Pathophysiology of Cystic Fibrosis in the Pancreas Using the CF Mouse" Department of Pharmacology and Toxicology, University of Kansas Medical Center, February 24, 2004.
- 12 "Innate Immune Dysfunction and Bacterial Overgrowth in the Small Intestine of the Cystic Fibrosis Mouse" Department of Anatomy and Physiology, Kansas State University, Manhattan, KS, July 12, 2004
- 13 "Innate Immune Dysfunction and Bacterial Overgrowth in the Small Intestine of the Cystic Fibrosis Mouse" Pharmacology Division, College of Pharmacy, University of Missouri-Kansas City, February 15, 2006.

Poster presentations: (Provide names of all authors, title, sponsoring organization, extent of peer-review and location and date of presentation.)

Poster presentations at national and international meetings:

- 1 Cortright, R.N., P.C. Will, M.E. Barnett, **R.C. De Lisle**, and U. Hopfer. (1982) Glucocorticoid actions on sodium transport in the rat colon are independent of insulin. Fed Proc 41: 1684.
- 2 **De Lisle, R.C.**, I. Schulz, and U. Hopfer. (1983) Isolation of stable pancreatic zymogen granules. Fed Proc 42: 1278.
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- 16 **De Lisle, R.C.**, and R. Bansal (1995) Secretion kinetics of sulfated proteins in the mouse pancreatic acinar cell. *Pancreas* 11: 424.
- 17 Fu, K., Sarras, M.P., **De Lisle, R.C.**, and Andrews, G.K. (1995) Oxygen radicals in caerulein-induced acute pancreatitis. *Mol Biol Cell* 6: 334a.
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- Rankin, C.A., M. Sarras, J.P. Calvet, and **R.C. De Lisle** (1995) The murine polycystic kidney disease gene, *cpk*, affects pancreatic development. *J. Am. Soc. Nephrol.* 6: 708.
- 19 **De Lisle, R.C.**, Petitt, M., Huff, J., and Isom, K. (1996) Increased expression and altered post-translational processing of Muclin in the gastrointestinal system of the CFTR(-/-) mouse. *Mol. Biol. Cell* 7S: 660a.
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24 **De Lisle, R.C.**, K.S. Isom, and C.U. Cotton (1999) Exocrine pancreatic function in the CF mouse in vitro and in vivo. *Pediatr. Pulmonol. Supplement* 19: 254.

25 **De Lisle, R.C.**, and D. Ziemer (1999) Targeting information in pro-Muclin: a putative Golgi cargo receptor. *Mol.Biol.Cell* 10:S: 303a.

26 **De Lisle, R.C.** (1999) Altered posttranslational processing of pro-Muclin in caerulein-induced pancreatitis. *Pancreas* 19: 418.

27 **De Lisle, R.C.** (2001) Role of O-linked oligosaccharides in zymogen granule formation. *Pancreas* 23: 432.

28 Tanndon, C., and **De Lisle, R.C.** (2002) The C-Tail of pro-Muclin/p80 binds the cytoskeleton and phosphorylation regulates p80 turnover in pancreatic acini. *Gastroenterology* 122:A-167.

29 **De Lisle, R.C.**, Isom, K., Norkina, O., Ziemer, D., and Kaur, S. (2003) The CF Mouse Small Intestine Exhibits an Innate Immune Response. *Gastroenterology* 124: A-498.

30 Magenheimer, B.S., St. John, P.L., Isom, K.S., Abrahamson, D.R., **De Lisle R.C.**, Wallace, D.P., Maser, R.L., Grantham, J.J., and Calvet, J.P. (2004) Cyclic AMP- and CFTR-dependent cystic dilation of embryonic renal tubules in metanephric organ culture. *J Am Soc Nephrol* 15: 541.

31 **De Lisle, R.C.**, and Norkina, O. (2005) Eradication of small intestinal bacterial overgrowth in the CFTR null mouse reduces mucus accumulation. *Pediatr Pulmonol Suppl* 28: 343.

32 **De Lisle R.C.**, Ziemer, D. (2008) Muclin (Dmbt1) Deficiency Slows Traffic of Regulated Secretory Protein in the Pancreatic Acinar Cell. *Gastroenterology*, In Press.

33 Meldi, L. and **De Lisle R.C.** (2008) Postnatal Development of Pathophysiology in the CF Mouse Small Intestine. *Pediatric Pulmonology Suppl.*31: 293, North American Cystic Fibrosis Conference.

34 **De Lisle R.C.**, Meldi, L., Roach, E. (2009) Effects of Lubiprostone on the Cystic Fibrosis Mouse Small Intestine Phenotype. *Gastroenterology* 136, Suppl.1:472.

35 Ho, W-H.S., Aguero, R., Balamurugan, R., Bard, J., **De Lisle R.C.**, Lin, H.C. (2009) Molecular Evidence Supports Lactulose Breath Test in Detecting Small Intestinal Bacterial Overgrowth. *Gastroenterology* 136, Suppl.1:343.

36 **De Lisle R.C.** (2010) Impaired mucosal barrier function in the small intestine of the cystic fibrosis mouse. *Gastroenterology* 138 Suppl 1: 275.

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37 **De Lisle R.C.** (2010) Bacterial overgrowth and impaired mucosal barrier function in the small intestine of the CF mouse. North American Cystic Fibrosis Conference, Pediatric Pulmonology Suppl.33: 413

38 **De Lisle R.C.**, Mueller, R. (2011) Disrupted tight junctions in the small intestine of the cystic fibrosis mouse. Gastroenterology 139 Suppl 1:682.

39 Wild YK, Goldfar KC, **De Lisle RC**, Kong W, Brodie L, Lynch SV. 2012 Cystic fibrosis transmembrane regulator knockout mice exhibit aberrant gastrointestinal microbiota. Gastroenterology xx Suppl 1:yy.

Poster presentations at local and regional meetings:

Invited seminars at other universities: (Provide title, sponsoring organization or institution, and date of presentation.)

1 "Monoclonal antibodies as probes for membrane domains in the exocrine pancreas." Cystic Fibrosis Center, Rainbow Babies and Children's Hospital and Case Western Reserve University, Cleveland, OH. November 10, 1988.

2 "Phenotypic plasticity of growing pancreatic acinar cells in vivo and in vitro." Department of Physiology, Michigan State University, Lansing, MI. May 25, 1989

3 "Cystic Fibrosis in the GI System: Studies Using the CF Mouse", University of Michigan, Department of Physiology, Ann Arbor, MI, September 20, 2000.

4 "Cystic Fibrosis in the GI System: Studies Using the CF Mouse" Department of Anatomy and Cell Biology, University of Iowa, Iowa City, IA, November 16, 2000.

5 "Exocrine Secretory Granule Biogenesis" Department of Cell Biology, Neurobiology & Anatomy, Medical College of Wisconsin, Milwaukee WI, February 6, 2003

6 "Exocrine Secretory Granule Biogenesis" Center for Oral Biology, University of Rochester, Rochester, NY, March 24, 2003

7 "Intestinal milieu in CF" Symposium: 'CFTR and the gastrointestinal tract', to honor the career of Dr. Birgitta Strandvik, Centre for Gastroenterological Research at The Sahlgrenska Academy, Goteborg University, Gothenburg, Sweden, November 1, 2005.

8 "Intestinal Complications of Cystic Fibrosis Studied in the CF Mouse: Small Intestinal Dysmotility & Bacterial Overgrowth" Children's Hospital of Pittsburgh, University of Pittsburgh School of Medicine, Pittsburgh, PA, November 14, 2006.

9 "Small intestinal bacterial overgrowth in the CF mouse: Roles of mucus and motility", Hospital for Sick Children, Toronto, Ontario, Canada, April 10, 2007.

10 "The role of Muclin in pancreatic zymogen granule formation and function", Hospital for Sick Children, Toronto, Ontario, Canada, April 11, 2007

11 "Gastrointestinal Pathophysiology in CF Mice", part of Symposium *Frontiers in Exocrine Pancreatic Disease*, to honor the career of Dr. Peter Durie, The University



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of Toronto and Hospital for Sick Children, Toronto, Ontario, Canada, May 13, 2011.

12 "Altered Eicosanoid Metabolism and Impaired Smooth Muscle Function in the CF Mouse Intestine", Cystic Fibrosis Center, Case Western Reserve University, Cleveland, OH, March 1, 2012.

13 "Gastrointestinal Pathophysiology in CF Mice Or, Everything That Can Go Wrong Does (Almost)", part of Symposium *Epithelial transport, from molecules to integrated tissue function in health and disease*, to honor the career of Dr. Ulrich Hopfer, Case Western Reserve University, Cleveland, OH, March 2, 2012

14 "Altered transit and bacterial overgrowth in the cystic fibrosis mouse small intestine", Session 3: Cystic Fibrosis, *The Microbiota and Immunity in Human Diseases*, Bambino Gesù Children's Hospital, Rome, Italy, May 3-4, 2013

4. Other evidence of scholarship

(includes clinical guidelines, policy documents, contributions to significant position statements by professional organizations, and development of national examinations)

Co-organizer of "Outcomes & Confounders in Studies of Malabsorption in CF", a workshop sponsored by the Cystic Fibrosis Foundation, May 11-12, 2005, Baltimore, MD. I also gave a talk at this workshop, "Bacterial overgrowth and intestinal inflammation".

Co-chair of "Pathogenesis of Intestinal Disease in Cystic Fibrosis" Symposium at the 2011 North American Cystic Fibrosis Conference, November 5, 2011, Anaheim, CA

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**IV. SERVICE ACTIVITIES:**

See guidelines and instructions to applicants for definitions and suggested documentation of professional and academic service.

Professional Service:

<u>Year</u>	<u>Manuscript Reviews</u>	<u>Grant Reviews</u>
1990	Am J Physiol (1)	
1991	Am J Physiol (1) Biochim Biophys Acta (1)	
1992	Am J Physiol (4)	VA Merit Grant, ad hoc
<u>Year</u>	<u>Manuscript Reviews</u>	<u>Grant Reviews</u>
1993	Am J Physiol (1) Biochim Biophys Acta (1) Digestion (1)	Am Cancer Society Postdoctoral Fellowships, ad hoc
1994	Am J Physiol (1) Biochim Biophys Acta (1) Digestion (2) Eur J Cell Biol (1) Histochem J (1)	NSF Grant, ad hoc
1995		NIH Site Visit, Program Project Grant, ad hoc
1996	Am J Physiol (3) Eur J Cell Biol (1)	NIH GMA2, ad hoc
1997	Digestion (2) Eur J Cell Biol (1) Exp Cell Res (1) Gastroenterology (1) J Clin Invest (1)	Arkansas State Tech. Grant Ad hoc NIH grant review, ad hoc

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<u>Year</u>	<u>Manuscript Reviews</u>	<u>Grant Reviews</u>
1998	Biochim Biophys Acta (1) Digestion (2) Gastroenterology (1) J Clin Invest (2) Pancreas (1)	
1999	J Histochem Cytochem (1) Gastroenterology (1) Pancreas (1)	NSF Grant; VA Merit Grant
2000	Am J Physiol (1) Digestion (1) Exp Eye Res (1) Gastroenterology (1) Invest Ophthalmol Vision Sci (1)	
2001	Gastroenterology (1) J Clin Invest (1) J Biol Chem (1)	NIH RFA study section
2002	Gastroenterology (2) J Clin Invest (1)	NIH grant review, ad hoc; Wellcome Trust Grant
2003	Am J Physiol (2) Gastroenterology (1) J Biol Chem (1)	
2004	Am J Physiol (1) Exp Cell Res (1) Gastroenterology (1) Gut (1)	
2005	Am J Physiol (2) BMC Genetics (1) Clin Gastroenterol Hepatol (1) Gastroenterology (3) J Pharmacol Exp Ther (1)	

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<u>Year</u>	<u>Manuscript Reviews</u>	<u>Grant Reviews</u>
2006	Am J Physiol (5) Gastroenterology (2) Intl J Biochem Cell Biol (1) Pancreatology (1) Traffic (1)	
2007	Am J Physiol (1) BMC Genetics (1) J Histochem Cytochem (1) Pancreas (1) Physiological Genomics (3)	
2008	BMC Genetics (1) Gastroenterology (1) J Cell Molec Med (1)	
2009	Am J Physiol (1) J Clin Invest (1) I had to decline invitations to review manuscripts for Gastroenterology (1) and Pediatr Res (1) due to a family health issue.	Northern Ireland Chest Heart & Stroke, ad hoc
2010	Am J Physiol (2) Pancreatology (1)	NIH R13, ad hoc
2011	Am J Physiol (2) African J Biotech (1) J Cystic Fibrosis (1) Pancreapedia [ <a href="http://www.lib.umich.edu/spo/panc/user">http://www.lib.umich.edu/spo/panc/user</a> ] (1)	Dutch Cystic Fibrosis Foundation, ad hoc; Australian Cystic Fibrosis Research Trust, ad hoc; NIH: Cystic Fibrosis Research and Translation Core Centers (P30), ad hoc

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<u>Year</u>	<u>Manuscript Reviews</u>	<u>Grant Reviews</u>
2012	Frontline Gastroenterology (1)	Cystic Fibrosis Research, Inc.; South Carolina EPSCoR IDeA Program; Frontiers: The Heartland Institute for Clinical and Translational Research, KUMC
2013	Can J Physiol Pharmacol (1) Intl J Biochem RR (1) Pancreas (1)	The Research Foundation Flanders, Belgium (FWO); Frontiers: The Heartland Institute for Clinical and Translational Research, KUMC

**Academic Service:**

<u>Year</u>	<u>Level</u>	<u>Activity</u>
1990	Departmental Institutional	Graduate Program Committee Coordinator, Cell Biology Journal Club Monoclonal Antibody Facility Committee
1992	Departmental Institutional	Faculty Search Committee Coordinator, Cell Biology Journal Club Monoclonal Antibody Facility Committee
1993	Departmental Institutional Extramural	Graduate Program Committee Coordinator, Cell Biology Journal Club Monoclonal Antibody Facility Committee Space Allocation Advisory Committee to the Dean Travel Committee for the School of Medicine Editorial Board of <i>Digestion</i>
1994	Departmental Institutional Extramural	Graduate Program Committee Coordinator, Cell Biology Journal Club Monoclonal Antibody Facility Committee Space Allocation Advisory Committee to the Dean Travel Committee for the School of Medicine Editorial Board of <i>Digestion</i>

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<u>Year</u>	<u>Level</u>	<u>Activity</u>
1995	Departmental Institutional Extramural	Coordinator, Cell Biology Journal Club Faculty Search Committee Monoclonal Antibody Facility Committee Space Allocation Advisory Committee to the Dean Travel Committee for the School of Medicine Editorial Board of <i>Digestion</i>
1996	Departmental Institutional Extramural	Coordinator, Cell Biology Journal Club Chair, Research Committee Monoclonal Antibody Facility Committee Space Allocation Advisory Committee to the Dean Biotechnology Support Facility, Advisory Committee Transgenic Mouse Facility, Advisory Committee Review of Pathology Department Chair Committee Editorial Board of <i>Digestion</i>
1997	Departmental Institutional Extramural	Coordinator, Cell Biology Journal Club Chair, Research Committee Chair, Graduate Committee Monoclonal Antibody Facility Committee Biotechnology Support Facility, Advisory Committee Transgenic Mouse Facility, Advisory Committee Search Committee for Senior Associate Dean for Research and Graduate Studies, School of Medicine Graduate Council IGPBS Advisory Board Editorial Board of <i>Digestion</i>

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<u>Year</u>	<u>Level</u>	<u>Activity</u>
1998	Departmental       Institutional     Extramural	Chair, Research Committee Chair, Graduate Committee Member, Faculty Search Committee Chair, Comprehensive Examination Committee for Tim Burnett Member, Comprehensive Examination Committee for Michelle Muessel Member, Comprehensive Examination Committee for Melissa Jones Biotechnology Support Facility, Advisory Committee Transgenic and Gene Targeting Mouse Facility, Advisory Committee Graduate Council IGPBS Advisory Board IGPBS Admissions Committee Editorial Board of <i>Digestion</i>
1999	Departmental       Institutional     Extramural	Chair, Research Committee Chair, Graduate Committee Member, Dissertation Committee for Tim Burnett Member, Dissertation Committee for Michelle Muessel Member, Dissertation Committee for Jinsong Zhang Member, Comprehensive Committee for Dan Kim (Biochemistry) Biotechnology Support Facility, Advisory Committee Transgenic and Gene Targeting Mouse Facility, Advisory Committee Graduate Council IGPBS Advisory Board IGPBS Admissions Committee School of Medicine Research Committee Editorial Board of <i>Digestion</i>
2000	Departmental     Institutional	Chair, Dept. Graduate Committee Chair, Research Committee IGPBS Admissions Board Member, Graduate Council Chair, Som Research Committee Member, Faculty Assembly Research Committee Member, Faculty Council Member, Executive Committee of the Faculty Council

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<u>Year</u>	<u>Level</u>	<u>Activity</u>
2001	Departmental Institutional	Chair, Research Committee Research Committee, Chair External Faculty Graduate Appointment Credentialing Committee Transgenic & Gene Targeting Facility Advisory Committee Biotech Support Facility Advisory Committee Microarray Facility Advisory Committee
2002	Departmental Institutional	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Transgenic & Gene Targeting Facility Advisory Committee Biotech Support Facility Advisory Committee Microarray Facility Advisory Committee
2003	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI).
2004	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI)
2005	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI)



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<u>Year</u>	<u>Level</u>	<u>Activity</u>
2006	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI)
2007	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI)
2008	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Internal Advisory Committee for the Kansas State University COBRE Grant (Dan Marcus, PI)
2009	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Dissertation Reader, University of Health Sciences, Lahor, Pakistan. M.S. Thesis
2010	Departmental Institutional	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee
2011	Departmental Institutional	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee

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**FACULTY CURRICULUM VITAE**

<u>Year</u>	<u>Level</u>	<u>Activity</u>
2012	Departmental Institutional	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee
2013	Departmental Institutional  Extramural	Chair, Research Committee External Faculty Graduate Appointment Credentialing Committee Biotech Support Facility Advisory Committee Dissertation Reader, University of Health Sciences, Lahor, Pakistan. M.S. Thesis