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CURRICULUM VITAE

Stephen A. Duncan PhD

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Department of Cell Biology, Neurobiology and Anatomy

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PLACE OF BIRTH: Glasgow, Scotland, U.K.

CITIZENSHIP: U.K. and U.S.

EDUCATION:

1985 - 1988 B.Sc (hons), University of Glasgow
1988 - 1992 D.Phil., University of Oxford, Wolfson College

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1992 - 1995 Postdoctoral fellow, mentor James Darnell, Rockefeller University, New York, NY
1995 - 1996 Research Associate, Rockefeller University,

MILITARY SERVICE:

N/A

FACULTY APPOINTMENTS:

1996 - 1997 Assistant Professor, Rockefeller University, New York, NY
1997 - 2002 Assistant Professor, Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI
2002 - 2006 Associate Professor, Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI
2006 - Present Professor, Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI
2007 - Present Marcus Professor of Human and Molecular Genetics., Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

2007 - Present Director Program in Regenerative Medicine/Stem Cell Biology, Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI
2009 - Present Vice Chairman, Cell Biology Neurobiology and Anatomy, Medical College Wisconsin, Milwaukee, WI

AWARDS AND HONORS:

1988 - 1991 MRC AIDS Directed Program Research Studentship
1995 - 1998 Naomi Judd American Liver Scholar
1995 - 1998 Alexander and Alexandrine Sinsheimer Scholar Award
2009 Wisconsin BizTimes 'Healthcare Hero Grand Achievement" Award

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2000 - Present Society for Developmental Biology
2001 - Present FASEB
2001 - Present American Society for Microbiologists
2003 - Present American Association for Cell Biology
2004 - Present American Association for Advancement in Science
2010 - Present International Society for Stem Cell Research

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board
2005 - Present BMC Developmental Biology
2006 - Present Developmental Dynamics

Journal Review
Molecular and Cellular Biology
Journal of Cell Biology
Developmental Dynamics
Hepatology
Gastroenterology
Cell Stem Cell
Journal of Hepatology
Nature
Developmental Biology
Nature Reviews
Proceedings of the National Academies of Science, USA
BMC Developmental Biology
Development
Nucleic Acid Research
Mechanisms of Development
Nature Medicine
EMBO Reports
Nature Genetics
Science
Genes and Development
European Molecular Biology Organization (EMBO) Journal

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2002 - 2011 Board of Directors, Wisconsin Association for Biomedical Research and Development

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2000 Member, Review Panel, site visit review of Program Project Grant (P01), NIH
2000 Reviewer, Ad Hoc Reviewer, Institut Pastuer, Unite de Genetique e la Differentiation, Institut Pastuer
2000 Reviewer, Grant Reviews, Human Frontier Science Program
2001 Reviewer, Actions de Recherche Concertees, Universite de Louvain, Belgium
2001 Reviewer, Member, NIH NIDDK Special Study Section, RFA " Development of gut, liver and exocrine pancreas", NIDDK
2003 Reviewer, Grant Reviews, Welcome Trust
2003 Reviewer, Grant Reviews, National Science Foundation
2003 Reviewer, NIH Metabolism Study Section, NIH
2004 Reviewer, Reviewer trans-NIH “Action Plan for Liver Disease Research”., NIH
2004 Reviewer, Dev2 Study Section, NIH
2004 Organizer, FASEB Summer Research Conference, Mechanisms of Liver Growth, Development and Disease, July 2006, Snowmass, Colorado, FASEB
2005 - 2009 Member, Dev2 Study Section, National Institutes of Health
2005 Reviewer, Dev2 Study Section, NIH
2005 Reviewer, External Review of Genetic Expression and Disease Unit., Institut Pastuer
2006 Reviewer, Ex Ante International Expert Evaluator, Belgian Science Policy “Interuniversity Attraction Poles” programme (IAP, 2007-2011)
2006 Reviewer, Grant Review, Istituto Pasteur-Fondazione Cenci Bolognettiis
2007 Co-organizer, Experimental Biology Symposium, “"Early Decisions by Embryonic Stem Cells:

Diversification into, and Interaction Between, Endodermal & Mesodermal Lineages", 5-9th April, 2008

2007 Reviewer, Actions de Recherche Concertées Application 2007-2012 Pathogenic mechanisms of developmental diseases, UCL, Belgium., UCL

2008 Reviewer, Grant Reviews, Singapore Biomedical Research Council

2009 - Present Contributer, Liver Disease Work Group of the International Society for Stem Cell Research Clinical Translation committee., ISSCR

2009 - 2011 Member - Scientific Advisory Board, Mini-Liver Center Advisory Board., Mount Sinai School of Medicine

2010 Chairman, Program Project Grant Special Emphasis Panel, NICHD

2010 - Present Member - Scientific Advisory Board, Center for Digestive and Liver Diseases External Advisory Board., University of Pennsylvania

2010 Reviewer, Program Project Grant Special Emphasis Panel, NIGMS

2011 - Present Member - Scientific Advisory Board, Malaria Culture Systems Consortium , Bill & Melinda Gates Foundation

2012 Reviewer, Special Emphasis Panel, NIH/CSR

2013 - Present Member - Scientific Advisory Board, Program Project Grant External Scientific Advisory Board, University of Pittsburgh

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	P01 HL089471-Induction of Cardiovascular Cells from hESCs by Embryonic Cues.
Source:	NHLBI
Role:	PI Project 2 and Core B
PI:	Lough
Dates:	8/12/2009 - 8/12/2014
Direct Funds:	$5,932,793

Title:	U01 HG006398-Next Generation GWAS Studies Consortium Grant iPS-derived hepatocytes for interrogation of lipid phenotypes
Source:	NHGRI
Role:	Co-Principal Investigator
PI:	Duncan/Morrisey/Rader
Dates:	2011 - 2016
Direct Funds:	$5,825,000

Title:	R01 DK55743-Transcriptional Regulation of Mammalian Hepatic Development
Source:	NIDDK
Role:	PI
PI:	Duncan
Dates:	2011 - 2014
Direct Funds:	$902,500

Title:	F30 DK091994 iPS-derived hepatocytes as a model of familial hypercholesterolemia
Source:	NIDDK
Role:	Mentor
PI:	Cayo
Dates:	1/2012 - Present
Direct Funds:	$41,380 (Predoctoral Fellowship)

Non-Peer Review

Title:	Regenerative Medicine Development Funds
Source:	Advancing a Healthier Wisconsin
Role:	Principal Investigator

PI: Duncan
Dates: 1/6/2006 - Present
Direct Funds: $500,000

Prior

Peer Review

Title: Hnf4 in hepatic specification
Source: March of Dimes
Role: Principal Investigator
PI: Duncan
Dates: 1997 - 1999
Direct Funds: $163,635

Title: RO3 DK54929 The Role of Pescadillo in Hepatogenesis
Source: NIDDK
Role: Principal Investigator
PI: Duncan
Dates: 1997 - 2000
Direct Funds: $150,000

Title: The role of MODY1 transcription factor Hnf4 in regulating glucose metabolism
Source: American Diabetes Association
Role: Principal Investigator
PI: Duncan
Dates: 1998 - 2001
Direct Funds: $260,000

Title: Transcriptional Regulation of Hepatic Differentiation
Source: Human Frontier Science Program
Role: Co-Principal Investigator
PI: Duncan/Zaret/LeMaigre/Weiss
Dates: 1999 - 2003
Direct Funds: $160,000

Title: Regulation of Mammalian Liver Development by Pescadillo
Source: MCW Digestive Disease Center
Role: Principal Investigator
PI: Duncan
Dates: 1999 - 2000
Direct Funds: $25,000

Title: Examining the role of Hnf4 loss-of-function in the liver on lipoprotein homeostasis.
Source: American Heart Association
Role: Mentor
PI: Parviz
Dates: 2000 - 2002
Direct Funds: $70,000 (Post Doctoral Fellowship)

Title: R01 HL61911 Retinol Binding Protein and Heart Development
Source: NHLBI
Role: Co-Investigator
PI: Lough
Dates: 2000 - 2004
Direct Funds: $701,290

Title: HNF4 regulates apolipoprotein gene expression by recruiting

	chromatin-remodeling enzymes
Source:	American Heart Association
Role:	Mentor
PI:	Garrison
Dates:	2001 - 2004
Direct Funds:	$41,000 (Predoctoral Fellowship)

Title:	Examining the role of Gata4 and Gata6 in cardiac and hepatic development.
Source:	American Heart Association
Role:	Mentor
PI:	Watt
Dates:	2001 - 2003
Direct Funds:	$70,000 (Post Doctoral Fellowship)

Title:	R01 DK60064-04 Regulation of Fetal Liver Growth
Source:	NIDDK
Role:	Principal Investigator
PI:	Duncan
Dates:	2001 - 2005
Direct Funds:	$765,000

Title:	R01 HL39829 Induction of Early Embryonic Heart Development
Source:	NHLBI
Role:	Co-Investigator
PI:	Lough
Dates:	2002 - 2005
Direct Funds:	$1,250,000

Title:	The Role of SRF in Cardiac Function and Development
Source:	NHLBI
Role:	Co-Investigator
PI:	Misra
Dates:	2002 - 2007
Direct Funds:	$1,250,000

Title:	DK066226 Transcriptional control of gastrointestinal development
Source:	NIDDK
Role:	Principal Investigator
PI:	Duncan
Dates:	6/1/2004 - 4/31/2009
Direct Funds:	$1,250,000

Title:	F32 DK67808 NRSA Fellowship Award to Michele Battle
Source:	NIDDK
Role:	Mentor
PI:	Battle
Dates:	2004 - 2007
Direct Funds:	$139,000 (Post Doctoral Fellowship)

Title:	Regulation of Liver and Gut Development by the Transcription Factor Creb-3L3
Source:	MCW Digestive Disease Center Grant
Role:	Principal Investigator
PI:	Duncan
Dates:	2005 - 2006
Direct Funds:	$20,000

Title:	F32 NRSA Fellowship Award to Gena Konopka
Source:	NIDDK
Role:	Mentor
PI:	Konopka
Dates:	2005 - 2006
Direct Funds:	$46,000 (Post Doctoral Fellowship)

Title:	Mechanisms of One Step Progression in Hepatocellular Carcinoma
Source:	Civilian Research and Development Fund
Role:	Co-Investigator
PI:	Lazarevitch
Dates:	1/2006 - 12/2007
Direct Funds:	$70,000

Title:	R01 HL084636-Transcriptional control of Early Coronary Vascular Development
Source:	NHLBI
Role:	Co-Investigator
PI:	Misra
Dates:	6/2006 - 5/2011
Direct Funds:	$1,250,000

Title:	Control of Vascular and Blood Development by GATA4
Source:	Advancing a Healthier Wisconsin
Role:	Principal Investigator
PI:	Duncan
Dates:	1/6/2007 - 1/6/2009
Direct Funds:	$150,000

Title:	R01 HL094857 Role of GATA4 and GATA6 in controlling heart development.
Source:	NHLBI
Role:	Principal Investigator
PI:	Duncan
Dates:	1/12/2008 - 1/12/2013
Direct Funds:	$1,840,242 (Award returned after funding in order to accept PO1)

Title:	DK087377-01 Modeling liver metabolism with patient-specific iPS derived hepatocytes
Source:	NIDDK
Role:	Principal Investigator
PI:	Duncan/Grompe
Dates:	1/12/2009 - 1/12/2011
Direct Funds:	$836,620

Title:	3-2010-497 Generating mature pancreatic beta-cells from human ES and iPS cells
Source:	Juvenile Diabetes Research Foundation
Role:	Mentor
PI:	Cai
Dates:	9/2010 - 9/2012
Direct Funds:	$93,380 (Post Doctoral Fellowship)

Title:	F31AA019874-01 Treating Liver Dysfunction with iPS cell-derived hepatocytes.
Source:	NIH-NIAAA
Role:	Mentor
PI:	Noto

Dates:	8/2011 - 1/2013
Direct Funds:	$41,380 (Predoctoral Fellowship)

Non-Peer Review

Title:	Human ES Cell Core Laboratory
Source:	Advancing a Healthier Wisconsin
Role:	Principal Investigator
PI:	Duncan
Dates:	2006 - 2007
Direct Funds:	$162,000

Title:	Human Embryonic Stem Cells as a Model for Type II Diabetes
Source:	Sophia Quadracci Memorial Fund For Stem Cell Research
Role:	Principal Investigator
PI:	Duncan
Dates:	2006 - 2007
Direct Funds:	$50,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

1. The role of HNF4a in regulation of gene expression and glucose homeostasis, MCW/Max McGee Center 2nd Annual Diabetes Day , MCW, 1/26/2008 - Present
2. Recent Advances in Embryonic Stem Cell Biology, MCW/Marquette Alumni Weekend Clinic Day , MCW, 5/2008 - Present
3. Use of induced pluripotent stem cells in treatment and study of disease, MCW Technology Innovation Council Board Meeting, MCW, 1/2009 - Present
4. Use of Stem Cells in the Treatment of Disease, Rotary Club of Milwaukee, Milwaukee, 7/2009 - Present
5. Use of Pluripotent Stem Cells in the Study of Disease and Development" , North Shore Rotary Club , Milwaukee, 4/2011 - Present
6. Use of Pluripotent Stem Cells in the Study of Disease and Development" , Lake Country Rotary Club Eastern WI District Conference , Milwaukee, 5/2011 - Present
7. Using human induced pluripotent stem cells to study liver development and disease, MCW Endocrine Research Grand Rounds, MCW, 5/10/2012 - Present
8. Stem Cells & Regenerative Medicine: From here to there...and back again., Milwaukee School of Engineering, My Genes, My Health Science Café, Milwaukee, 11/13/2012 - Present
9. Advancing Medicine through Stem Cell Research, MCW Council Meeting, University Club of Milwaukee, 1/16/2013 - Present
10. Using human iPS cells to study liver disease and development., Milwaukee School of Engineering, Biomolecular Engineering program , Milwaukee, 1/21/2013 - Present

Regional

1. Molecular Control of Hepatic Development in the Mouse, Seminar, Department of Cell BIology and Anatomy, University of Wisconsin Madison, 1998
2. Transcriptional Regulation of Hepatic Development, Endocrinology Grand Rounds , University of Wisconsin Medical College, 3/2002
3. Control of Liver Development by Gata Factors and Hnf4, Genetics in model organisms colloquium, Department of Genetics and Biotechnology University of Wisconsin Madison, 1/2004
4. Gata Factors in Gut and Liver Development, Seminar, Department of Cell bBiology and Anatomy, University of Wisconsin Madison, 11/2004
5. Regulation of Liver and Heart Development By Gata4 and Gata6, Seminar, Department Pathology & Laboratory Medicine, University of Wisconsin Madison, 2/2008
6. ES cells as a model of liver development and disease, Madison Campus Stem Cell Laboratory Meeting, University of Wisconsin Madison, 5/2008

National

1. Control of liver and heart development by GATA4 and GATA6, Seminar, Gladstone Institute/UCSF , 2/2007
2. Control of liver and heart development by GATA4 and GATA6, Seminar, University of Southern

California , 3/2007

3. Control of liver and heart development by GATA4 and GATA6, Seminar, Duke University, 3/2007
4. Control of liver and heart development by GATA4 and GATA6, Robert Costa Memorial Symposium , University of Illinois Chicago, 3/2007
5. Control of liver development and function by HNF4, Seminar, Cleveland Clinic , 5/2007
6. ES cells as a model of liver development and disease, Seminar, Einstein Yeshiva University New York, 2/2008
7. Control of Cardiac Development by GATA4 and GATA6, Penn Cardiovascular Institute Symposium , University of Pennsylvania, Philidelphia, 5/2008
8. Embryonic stem cells and induced pluripotent stem cells as a model of human liver development and disease, FASEB Summer Research Conference: "Liver Growth, Development and Disease". , Snowmass Village, Colorado, 8/2008
9. Control of cardiac development by GATA factors, Cardiac Development and Regeneration Abcam Research Conference, Boston, 10/2008
10. Analysis of Liver Development and Disease using Human ES cells and iPS cells, Yale University Liver Center Retreat , 11/2008
11. Human ES cells and iPS cells as a model of human liver disease and development, Seminar, University of Nebraska, 3/2009
12. Efficient Generation of Hepatocytes from Human iPS cells, Seminar, University of California Riverside , 3/2009
13. Efficient Generation of Hepatocytes from Human iPS cells, Columbia University, New York City, 10/2009
14. Use of human pluripotent stem cells to study liver disease and development, Seminar, Children’s Hospital Medical Center Cincinnatti, 3/2010
15. Human iPS cells for study of Liver Disease and Development, Robert Costa Memorial Lecture , University of Illinois Chicago, 4/2010
16. Use of human pluripotent stem cells in the study of hepatocyte differentiation and disease, 3rd Annual Southeast Regional Stem Cell Consortium , Vanderbilt University, Nashville, 7/2010
17. Study of human liver development and disease using pluripotent stem cells, FASEB Summer Research Conference: "Liver Growth, Injury and Metabolism: Basic and Applied Biology"., Snowmass Village, Colorado, 8/2010
18. Human pluripotent stem cells in the study of liver disease and development, Seminar, St Jude’s Memphis, 9/2010
19. Pluripotent human stem cells in the study of hepatic disease and development, Visiting Lecturer in the NIH-funded Digestive Disease Center (DDC) at Stanford University , Stanford University, California, 11/2010
20. Modeling Liver Disease Using Patient Specific iPS cells, Seminar, University of Miami, 2/2011
21. iPS cells as a model to study liver diseases, Invited Speaker Henry M and Lillian Stratton Basic Research Conference/ American Association of the Study of Liver Diseases (AASLD) Single Topic Conference Title: Stem cells in Liver Diseases and Cancer: Discovery and Promise, Atlanta, Georgia, 3/2011 - 2/2011
22. Using Human Pluripotent Stem Cells to Study Hepatic Disease and Development, Student’s Choice Seminar, University of Washington , University of Washington, Seattle, WA, 4/2011
23. Using Human Pluripotent Stem Cells to Study Hepatic Disease and Development, University of Pennsylvania Digestive Disease Center Symposium , University of Pennsylvania, Philidelphia, 4/2011
24. Generation of Hepatocyte-like Cells from Induced Pluripotent Stem Cells, Digestive Disease Week, Research Symposium ‘Endodermal Organ Development and Stem Cell Nuclear Programming”, Chicago, Illinois, 5/2011
25. Using human iPS cells to study hepatocyte differentiation and liver disease., Seminar, University of Georgia, Athens , 10/2011
26. The use of pluripotent stem cells in the study of liver development and disease, Seminar, University of Kansas Medical Center, 12/2011
27. University of Massachusetts Amherst, Modeling liver development and disease with human iPSC derived hepatocytes, 1/2012
28. Pluripotent stem cells in the study of liver disease and development, Seminar, University of Pittsburgh, Pittsburgh, 2/2012
29. Using Human Pluripotent Stem Cells to Understand Liver Development and Disease, Seminar, University of Minnesota, Minnesota, 2/2012

30. Center for the Study of Hepatitis C - Seminar, Rockefeller University, New York City, NY, 3/2012
31. “iPS CELLS: Are We There Yet!” , FASEB Experimental Biology 2012 , San Diego, 4/21/2012 - Present
32. The use of human pluripotent stem cells to study liver disease and development., Visiting Professor at the UCSF Liver Center, San Francisco, 5/2/2012 - Present
33. Two presentations “Endoderm Regionalization” and “iPSCs and their Application”, Cold Spring Harbor Laboratory and the Mouse Development, Stem Cells & Cancer course, June 6 – 26, 2012. , CHSL, New York, 6/11/2012 - Present
34. Using Human iPSCs to study inborn errors of hepatic metabolism, 2012 FASEB Summer Research Conference on “Liver Biology: Fundamental Mechanisms & Translational Applications”., Snowmass, Colorado, 7/29/2012 - Present
35. Human pluripotent stem cells in the study of liver disease and development, Global Health Seminar Series, University of South Florida College of Medicine , Tampa, FL, 12/4/2012 - Present
36. Stephen Duncan, Pluripotent Stem Cell Derived Hepatocytes Recapitulate the Pathophysiology of Familial Hypercholesterolemia, 3rd Stem Cell Meeting for Drug Developers, Boston, MA, USA, 3/19/2013 - 3/21/2013

International

1. “8th Biennial International Conference on Liver Development, Gene regulation and Disease” , Orvieto, Italy, 6/2/1999 - 1999
2. Molecular Regulation of Hepatic Development in Mammals, Edinburgh University, UK, 1999
3. Transcription Factors That Regulate Liver Development, Louis Pastuer Institute, France, 1999
4. Role of HNF-4 in Cell Differentiation and Development, Cochin Institute, Paris, France, 1999
5. Italian Federation of Life Science Congress - Liver development and Disease, Riva del Garda, Italy, 2000
6. HNF4 controls development of a hepatic epithelium and liver morphogenesis, EMBO Workshop Liver Development, Gene Regulation and Disease, Herkalion, Greece, 6/2003
7. Transcriptional control of liver development, Seminar, Institute Pasteur, Paris, France, 2003
8. International Symposia on Developmental Biology and Tissue Engineering, Tokyo Japan., 2003
9. What makes a cell into a hepatocyte and a hepatocyte into a liver, Invited State of the Art Lecture, The European Association for the Study of the Liver, Berlin, Germany 2004, 4/2004
10. Control of Liver Development by GATA factors and HNF4, Seminar, British Columbia, Canada, 5/2004
11. 'Transcriptional control of mammalian hepatic development' , Seminar, Umeå Centre for Molecular Medicine Umeå University, Sweden, 12/2004
12. Use of Embryonic Stem Cells to Study Development of the Mammalian Liver, Bioscience 2005 , Scottish Exhibition and Conference Center, Glasgow, UK, 7/2005
13. Falk-Workshop, Morphogenesis and Cancerogenisis of the Liver, Gottingen, Germany, 1/2007
14. International Symposium on Developmental Biology and Tissue Engineering, Tokyo, Japan, 4/2007
15. EMBO Workshop The role and control of GATA factors in tissue development and disease, Capri, Italy, 4/2007
16. State-of-the-Art Lecture, Molecular Mechanisms Underlying Mammalian Development, 10th International Workshop on Developmental Biology, Pecs, Hungary, 8/2007
17. Using Human iPS cells to Study Liver Disease and Development., UNIA Workshop: Liver and Pancreas: From Development to Disease, Baeza, Spain, 10/2011
18. Using Human iPS cells to Study Liver Disease and Development., Liver Down Under meeting, Liver Development, Disease and Regeneration, Perth, Australia, 11/2011
19. Use of Human Embryonic Stem Cells to Study Liver Disease and Hepatocyte Differentiation, Progress to Therapy 2012, Glasgow, UK, 3/2012

COMMITTEE SERVICE:

Medical College

1998 - Present Organizer, MCW Developmental Biology and Stem Cell Forum
1998 - 1999 Member - Scientific Advisory Board, Interdisciplinary Graduate Program (IDP) Revision Committee
1998 - 1999 Member - Scientific Advisory Board, IDP Curriculum Revision Committee
1999 - 2001 Member, Graduate Student Awards Committee
1999 - 2003 Member, IDP Executive Evaluation Committee
1999 - 2010 Member, Graduate Studies Council
1999 - 2002 Member, IDP Web-site committee
2000 Member, Animal House Expansion Committee

2000 - 2005 Member, Barrier Facility Committee
2000 - 2005 Member, Transgenic Facility Oversight Committee
2002 - 2005 Chairman, Chairman, Graduate Curriculum and Programs Committee
2003 - Present Member, Graduate Program in Cell Biology Oversight Committee
2003 Member, Dept Cell Biology Faculty Search Committee
2003 - 2008 Chairman, IDP Executive Evaluation Committee
2004 Member, Student Assessment Committee
2004 - 2005 Member, Search Committee for Associate Director MCW Human and Molecular Genetics Center
2004 - 2010 Member, Children's Research Institute Scientific Advisory and Policy Committee
2004 Chairman, Graduate Studies Councinl Bound Thesis Committee
2004 Member, Department of Cell Biology Faculty Search Committee
2004 Chairman, MCW Digestive Disease Center Grant Review Committee
2005 - 2009 Member, Children's Research Institute Advisory Board Subcommittee for Basic Research
2005 - 2007 Member, Search Committee for Chairman Department. Pathology MCW
2005 Chairman, Chairman Department of Cell Biology Faculty Search Committee
2006 Member, Search Committee for Head of Biomedical Research Center
2006 - 2009 Member, IDP Graduate Program Oversight Committee
2007 Member, Ad Hoc Graduate Curriculum and Programs Committee
2007 Chairman, Regenerative Medicine Faculty Search Committee
2008 Chairman, Regenerative Medicine Faculty Search Committee
2009 Member, Biospecimen organizing committee
2009 - Present Member, MCW Biomedical Resource Center Oversight Committee
2009 Chairman, Task force to define MCW stance on Stem Cell Research
2009 - Present Member, MCW Cardiovascular Center Scientific Advisory Board
2009 - Present Member, MCW Embryonic Stem Cell Research Oversight Committee
2010 - Present Member, MCW Neuroscience Center Scientific Advisory Board
2010 - 2011 Chairman, Chairman IDP Curriculum and Oversight Committee
2010 Member, Search Committee Children’s Research Institute/MCW Chief of Pediatric Hematology Oncology
2011 Member, Rank and Tenure Committee

EXTRAMURAL TEACHING (e.g. at Marquette, UWM, etc.):

Medical Student Education

1999 - 2009 Medical College Wisconsin, Cell and Tissue Biology Lecture - Pancreas
1999 - 2010 Medical College Wisconsin, Cell and Tissue Biology Course Digestive System 3 "Liver and Pancreas" 2-day lab
1999 - 2010 Medical College Wisconsin, Cell and Tissue Biology Course - Digestive System 1 "Salivary Glands etc" 2-day lab
1999 - 2009 Medical College Wisconsin, Cell and Tissue Biology Lecture - Liver and Gallbladder
1999 - 2010 Medical College Wisconsin, Cell and Tissue Biology Course Digestive System 2 "Small and Large Intestine" 2-day lab
2002 - 2009 Medical College Wisconsin, Cell and Tissue Biology Lecture - Lower GI
2002 - 2009 Medical College Wisconsin, Cell and Tissue Biology Lecture - Upper GI
2010 - Present Medical College Wisconsin, Cell and Tissue Biology Lecture - Stem Cells

Graduate Student Education

1998 Medical College Wisconsin, Advanced Cell Biology - 3 sessions
1998 Medical College Wisconsin, Advanced Genetics - 5 sessions
1999 Medical College Wisconsin, Molecular Cell Biology - 1 lecture
1999 - 2007 Medical College Wisconsin, Molecular Genetics - 3 lectures
2000 Medical College Wisconsin, Course Director - Analysis Communication Scientific Data
2001 Medical College Wisconsin, Advanced Cell and Development - 7 sessions
2004 Medical College Wisconsin, Advanced Genetics - 7 sessions
2005 Medical College Wisconsin, Advanced Cell and Development - 4 sessions
2006 - 2009 Medical College Wisconsin, Co-director Molecular Cell Biology
2006 Medical College Wisconsin, Advanced Genetics - 4 sessions
2007 Medical College Wisconsin, Advanced Cell Biology - 3 sessions

2007 Medical College Wisconsin, Course Director Advanced Cell and Development
2008 - Present Medical College Wisconsin, Developmental and Stem Cell Biology - 4 lectures
2008 - Present Medical College Wisconsin, Director Developmental and Stem Cell Biology
2010 - Present Medical College Wisconsin, Methods in Grant Preparation - 1 lecture
2011 Medical College Wisconsin, Director - Stem Cells in Disease and Development
2011 - Present Medical College Wisconsin, Stem Cells in Disease and Development - 18 sessions
2012 - Present Medical College Wisconsin, Models of Disease and Drug Discovery - 1 lecture

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

PhD Students Advised

Jamil Haque, Medical College Wisconsin, 1999 - 2004 Role of Pes1 Gene in Mouse Cell Proliferation
Wendy Garrison, Medical College Wisconsin, 2000 - 2005 HNF4a Regulates Development of the GI Tract
Jennifer Luebke-Weeler, Medical College Wisconsin, 2001 - 2007 Creb3l3 is Regulated by HNF4a in the Mouse Embryonic Liver and is Dispensable for Hepatogenesis
Kai Sun, Medical College Wisconsin, 2001 - 2007 PES1 is Required for Cell Proliferation; Serum Response Factor is Essential for Hepatocyte Proliferation and Liver Function
Fallon Noto, Medical College Wisconsin, 2007 - 2012 Investigating The Therapeutic Potential Of Induced Pluripotent Stem Cells In A Mouse Model Of Liver Dysfunction
Ann DeLaForest, Medical College Wisconsin, 2008 - Present
Max Cayo, Medical College Wisconsin, 2009 - Present
Kirk Twaroski, Medical College Wisconsin, 2010 - Present
Megan Determan, Medical College Wisconsin, 2011 - Present
Amanda Urick, Medical College Wisconsin, 2011 - Present
Ran Jing, Medical College Wisconsin, 2012 - Present

MS Students Advised

Jackie Tekiela, Medical College Wisconsin, 2006 - 2008

Postdoctoral Students

Roong Zhao, Medical College Wisconsin, 1998 - 2006 Mentor
Fereshteh Parviz, Medical College Wisconsin, 1998 - 2003 Mentor
Alexandra Lerch, Medical College Wisconsin, 1999 - 2005 Mentor
Alistair Watt, Medical College Wisconsin, 2000 - 2003 Mentor
Dong Zhao, Medical College Wisconsin, 2003 - 2006 Mentor
Chhinder Shodhi, Medical College Wisconsin, 2003 - 2006 Mentor
Michele Battle, Medical College Wisconsin, 2003 - 2009 Mentor
Genevieve Konopka, Medical College Wisconsin, 2004 - 2006 Mentor
Karim Si–Tayeb, Medical College Wisconsin, 2005 - 2011 Mentor
Masato Nagaoka, Medical College Wisconsin, 2007 - 2012 Mentor
Jun Cai, Medical College Wisconsin, 2009 - Present Mentor
Joseph Fisher, Medical College Wisconsin, 2011 - Present Mentor
Sunil Mallanna, Medical College Wisconsin, 2012 - Present Mentor

Clinical/Research Fellows

Nur Actay, Medical College Wisconsin, 1998 - 2000 Mentor

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Student

1998 - Present Director Developmental and Stem Cell Biology Forum

Research Programs

2007 - Present Regenerative Medicine Research Program

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Kerr, S. M., L. H. Johnstone, M. Odell, S. A. Duncan, K. M. Law and G. L. Smith. (1991). Vaccinia DNA ligase complements Saccharomyces cerevisiae cdc 9, localizes in cytoplasmic factories and affects virulence and virus sensitivity to DNA damaging agents. EMBO J. 10: 4343-4350.
2. Duncan, S. A. and G. L. Smith. (1992). Identification and characterization of an extracellular envelope glycoprotein affecting vaccinia virus egress. J. Virol. 66: 1610-1621.
3. Duncan, S. A. and G. L. Smith. (1992). Vaccinia gene SalF5R is nonessential for virus replication in vitro and in vivo. J. Gen. Virol. 73, 1235-1242.
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