

CURRICULUM VITAE – HOWARD LAWRENCE MCLEOD

Date: August 6, 2020

Personal Information:

Sex: Male

Date of Birth: August 1, 1965

Place of Birth: Tacoma, Washington, USA

Citizenship:

USA

Office Address:

200 S Macdill Ave Ste 200

Tampa, FL 33609

USA

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Present Position:

Medical Director, Precision Medicine, Geriatric Oncology Consortium, Tampa, USA. December, 2019-present.

Professor, University of South Florida Taneja College of Pharmacy, Tampa, USA. March, 2014-present

Adjunct Professor, Central South University, Changsha, China. February, 2012-present.

Education:

1988 B.S. University of Washington School of Pharmacy

1990 Pharm.D. Philadelphia College of Pharmacy and Science

Post-Doctoral Training

July 1990 – December 1992 Clinical Research Fellow (Mentor: Prof William E Evans), St Jude Children's Research Hospital, Memphis, TN, USA.

January-December 1993 Research Fellow (Mentor: Prof Paul Workman), CRC Dept. of Medical Oncology, Cancer Research Campaign Beatson Laboratories, University of Glasgow, Glasgow, UK.

March/April, 2020 Prescription Drug Regulation, Cost, and Access: Current Controversies in Context. 1962USRx Harvard University, Boston, USA.

Previous Positions:

Head, Pharmacology Section, CRC Department of Medical Oncology, Beatson Laboratories, University of Glasgow, Glasgow, UK. January, 1994-May, 1995.

Senior Lecturer, Department of Medicine & Therapeutics, University of Aberdeen and Director of Laboratory Research, Aberdeen Oncology Unit, Aberdeen, UK. May, 1995 to June, 2000. Tenure obtained 1 November, 1998.

Associate Professor, Departments of Medicine, Pharmacology & Molecular Biology, and Genetics, Washington University, St Louis, USA. July, 2000 to July, 2005. (Tenured)

Professor, Departments of Medicine, Pharmacology & Molecular Biology, and Genetics, Washington University, St Louis, USA. July, 2005 to July, 2006. (Tenured)

Director, Pharmacology Core, Alvin J. Siteman Cancer Center, St Louis, USA. July, 2000 to July, 2006

Fred Eshelman Distinguished Professor, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, Chapel Hill, USA. July, 2006-September, 2013. (Tenured)

Professor, School of Medicine (Departments of Medicine and Pharmacology), University of North Carolina, Chapel Hill, Chapel Hill, USA. July, 2006-September, 2013. (Tenured)

Director, UNC Institute for Pharmacogenomics and Individualized Therapy, Chapel Hill, USA. July, 2006-September, 2013.

Adjunct Professor, Department of Medicine, Washington University, St Louis, USA. July, 2006-October, 2011.

Adjunct Professor, University of North Carolina, Chapel Hill, USA. September, 2013-February, 2020

Medical Director, DeBartolo Family Personalized Medicine Institute, Moffitt Cancer Center, Tampa, USA. September, 2013-December, 2019

Senior Member, Division of Population Sciences, Moffitt Cancer Center, Tampa, USA. September, 2013-December, 2019

State of Florida Endowed Chair, September, 2013-December, 2019

Chair, Department of Individualized Cancer Management, Moffitt Cancer Center, Tampa, USA. September, 2015-December, 2019

Honors and Awards:

1. Alumni Professional Excellence Award. University of Washington School of Pharmacy, 1988.
2. American College of Clinical Pharmacy Young Investigator Award. April, 2000.
3. Fellow, American College of Clinical Pharmacy. October, 2004.
4. 1st John Rodman Endowed Lectureship, St Jude Children's Research Hospital. Individualized

- Therapy: In Our Lifetime? January 10, 2008.
5. 2008 ASCPT - FDA Abrams Award and Lecture, FDA White Oak, MD, April, 2008.
 6. 2008 ACCP Therapeutic Frontiers Award, Louisville, KY, October, 2008
 7. UNC Eshelman School of Pharmacy Academic Excellence Award in Research, 2007-2008
 8. UNC Eshelman School of Pharmacy Academic Excellence Award in Mentoring, 2007-2008.
 9. Guest Professor, Central South University, Changsha, China, October, 2009 – October 2014.
 10. Guest Professor, Shanghai Sixth People's Hospital, April, 2011.
 11. Coriell Scientific Award, Coriell Institute for Medical Research, May, 2012
 12. Foreign 1000 Talents Award, Central South University, People's Republic of China, January, 2012
 13. The 17th Annual Roy H. Behnke Distinguished Lectureship, University of South Florida 23rd Annual Health Research Day, Tampa, FL. February, 2013.
 14. Tenth Annual Charles M. Gruber Lecture, Jefferson Medical College, May, 2014
 15. Moffitt Cancer Center 2014 Population Science Top Publication Award, February, 2015
 16. American College of Clinical Pharmacy Russell R. Miller Award, October, 2015
 17. Fellow, American Society of Clinical Oncology (FASCO designation), July, 2020
 18. Expertise in Pharmacogenetics #1 USA, #2 World <https://www.expertscape.com/ex/pharmacogenetics>

Editorial Review Responsibilities:

Blood	Lancet
British Journal of Cancer	Nature Genetics
British Journal of Clinical Pharmacology	Nature Medicine
Cancer Cell	New England Journal of Medicine
Cancer Research	Pharmacogenetics and genomics
Clinical Cancer Research	Pharmacogenomics
Clinical Pharmacology and Therapeutics	Proc Natl Acad Sci, USA
Journal of the American Medical Association	Science
Journal of Clinical Oncology	Trends in Genetics
Journal of the National Cancer Institute	Trends in Pharmaceutical Sciences

Editorial Board Membership

American Journal of Health Systems Pharmacy 2002-2005
 Annals of Oncology, Associate Editor 2006-2014
 Biomarkers in Medicine 2006-present
 Clinical Cancer Research 2002-2011
 Clinical Pharmacology & Therapeutics 2008-2010
 JCO Precision Oncology Founding Associate Editor, 2016-2020
 Journal of Clinical Oncology 2005-2010
 NCBI Medical Genetic Summaries 2017-2019
 Personalized Medicine 2004-present
 Pharmacogenetics and genomics 2001-present
 Pharmacogenomics Senior Editor 2002-2018

Grant Reviewer:

American Association for Cancer Research
 Stand Up To Cancer Innovative Research Grants. June, 2009
 American College of Clinical Pharmacy
 Canada Foundation for Innovation

Genome Canada

National Institutes of Health

Ad hoc study section/intramural reviewer

NICHD July, 2003, April, 2015 ZRG1 GGG-Q (51) R, November, 2015 ZRG1 GGG-A (51)

NCRR October, 2003, November, 2004

NIGMS April, 2004, ZGM1 BRT-0 May, 2007 (Chair), May, 2008, May, 2009, April, 2012.

NCI -Cancer Therapeutics Branch Site Visit Team, October, 2004,

-Medical Oncology Branch Site Visit Team, November, 2009.

-DT Study Section: 6/2005, 6/2006, 10/2006, 2/2007, 5/2007, 6/2008.

-ZRG1 OTC-D(95), June, 2009

-Urologic Oncology Branch/Genitourinary Malignancies Branch Site visit Team

NCBC May, 2005 ZRG BST-A (55)

NIH PAR14-274, February 10, 2016, June 30, 2016

Study Section member

NCI Developmental Therapeutics, July, 2008-June, 2010

National Science Foundation, USA

Ad hoc reviewer

Singapore Biomedical Research Council-National Science and Technology Board

Professional Societies and Organizations:

American Association for Cancer Research

Pharmacology/Preclinical Toxicology Committee, Annual Meeting 2000, 2003.

Clinical Pharmacology and Phase I Clinical Trials Section of the Clinical Research

Subcommittee, Annual Meeting 2005

The Pharmacology, Pharmacogenetics, and Pharmacogenomics Section of the Experimental and Molecular Therapeutics Subcommittee, Annual Meeting 2005

Session Chair, AACR Symposium: Pharmacogenetics: The Role of SNPs Affecting

Response, Toxicity, and Secondary Cancers. Charleston, South Carolina. January, 2006.

Integrative Molecular Epidemiology Workshop, Lecturer August, 2015

American Association of Colleges of Pharmacy

Paul Dawson Biotechnology Award Committee, 2008-2009.

American College of Clinical Pharmacy

Educational Affairs Committee, 1991-1992

International Affairs Committee, 1995-1996

Abstract reviewer for Annual Meeting, 1998, 2001-2005

Pharmacogenomics Taskforce, 2001

Awards Committee, 2003

Constitution and Bylaws Committee, 2004

Elected Fellow, October, 2004

3rd International Congress on Clinical Pharmacy Scientific Program Committee, 2007-2009.

Elected Trustee, Research Institute, July, 2005-September, 2008

American Society for Clinical Oncology

Invited Discussant, Annual Meeting 2000, 2003-2007, 2009, 2011, 2013-2016

Session Chair, Annual Meeting, 2003, 2009, 2010, 2015, 2016, 2018

Annual Meeting New Drug Symposium. 2017-2020, Chair, 2017-2019

Scientific Program Committee, 2005-2007

Cancer Education Committee, 2013-2016, 2018

Biomarkers/Imaging Task Force, 2005-2006

Cancer Research Committee, 2006-2009
Chair, FDA Critical Path Subcommittee
Chair, ASCO-FDA Alternative Design Working Group
ASCO Taxonomy Task Force, July-December, 2016
ASCO Taxonomy Committee, Jan, 2017-Mar, 2020
TAPUR study tumor board, June, 2016-March, 2020
American Society for Clinical Pharmacology and Therapeutics
Vice Chair, Hematology/Oncology Section 2003-2006
Invited Discussant, Annual Meeting, 2003, 2004
Member, Scientific Program Committee, 2005-2008
Academic Team Member, ASCPT Quiz Bowl 2013, 2014
Awards Nominations Task Force, 2018-present.
American Society for Human Genetics
Information and Education Committee, 2004-2006
British Association for Cancer Research
Session Chairman, BACR Special Conference, September, 2001
European Organization for the Research and Treatment of Cancer
Pharmacology and Molecular Mechanisms (PAMM) Group
Session Chairman, Annual Meeting, Nancy, France, January, 1998
Session Chairman, Annual Meeting, Verona, Italy, January, 2001
Society for Immunotherapy of Cancer
Communications Committee, 2016-2017

Teaching/Academic Committee Service:

Washington University School of Medicine

First Year Medicine

Medical Genetics-Pharmacogenomics, 2001-2006, Human Functional Genomics, 2002.

Second Year Medicine

Principles of Pharmacology-Pharmacogenomics I & II 2001-2006

Molekoolz course (BIO 5511) lecture: Applying the human genome to guide therapeutics

·Genetic Epidemiology Masters of Science (GEMS) program, M21-620 Applied Topics in Genetic Epidemiology. Six lectures on pharmacogenomics.

Siteman Cancer Center

Member, Protocol Review and Monitoring Committee 2002-2006

University of North Carolina, Chapel Hill

Service to the University Community

Center for Integrative Chemical Biology and Drug Discovery Advisory Board, 2008-2013.

Carolina Center for Computational Toxicology Advisory Board, 2008-2013

Lineberger Cancer Center Translational Pathology Laboratory Advisory Board, 2009-2013.

UNC University Research Council, April, 2010-2013. Chair, 2012-2013.

Selected as a feature Faculty member for 2008-2010 UNC ONE media campaign

Invited Speaker, UNC Alumni Association, Carolina College for Lifelong Learning, Sept., 2010

Invited speaker, UNC Mini-Medical School, April, 2009.

School of Pharmacy

Pharmacy Profession program teaching

PHCY 433: Drug Literature Analysis and Interpretation. October-December, 2007, 2008

PHCY 447: Hematology/Oncology - Pharmacogenomics. October, 2006, 2007, 2008, 2009
MOPH 810 Cancer Chemotherapy - A Pharmacogenomic Approach. November, 2006, 2007, 2009, 2010, 2011, 2012
DPET Fellows Course Pharmacogenomics lectures, March-April, 2007
DPET 832: Clinical Pharmacogenomics. Coordinator and lecturer. August-December, 2009-2012.

Campbell Mentoring Program
Craig Lee, (2007-2012)
Chris Walko (2008-2013)
Lynn Dressler (2008-2013)

Committee Service
Full Professor Committee, 2006-2013
Committee for Internationalization, 2008-2013

Student Advisor
UNC chapter of the Student National Pharmaceutical Association 2011-2013

Academic Awards
Academic Excellence Award in Research, 2007-2008
Academic Excellence Award in Mentoring, 2007-2008.
Student-selected Speaker, White Coat Ceremony, March, 2010

School of Public Health
EPID 805 / 806 Translational Research A Career Example. March, 2007, April, 2008, March, 2009, April, 2010, 2011.
EPID 765 Pharmacogenomics. March, 2007.

Committee Service
Gillings Innovation Laboratory (GIL) Reviewer November, 2008

School of Medicine
MEDI 140 Pharmacogenetics, September, 2007, 2008, 2009, 2010, 2011, 2012.
Hematology/Oncology Fellows training program. Pharmacogenetics. 1/2007-9/2013

School of Nursing
N781, Genomics and Society, Personalizing medical therapy. November, 2010-2013

Teaching at regional institutions
UNC Greensboro
Pharmacogenomics for genetic counselors. September, 2006-2009

Duke University
PHAR170S Cancer Pharmacogenomics. March, 2011, May, 2012, March, 2013
IGSP Teaching Seminar. Applying the genome. September, 2007
IGSP Retreat. 'Boring' as a key endpoint for genomics research. November, 2011

North Carolina State University
Computation for Undergraduates in Statistics Program, July, 2010

University of South Florida
Longitudinal Project Mentor: Kevin Klein (2014-2017)
USF Personalized Medicine Club: Faculty Advisor 2014-2017
PHA 6130C Translational Pharmacogenomics Lecturer November, 2014
USF Grant Writing Bootcamp for Clinical Educators, October, 2014

Graduate Student Training:

University of Aberdeen
Masters of Science
MSc Clinical Pharmacology
Kevin Dewar 1996 completed
Lloyd Matowe 1997 completed

MSc Human Genetics
Philip Carrott 1998 completed
Chrystelee Lennou 1998 completed

Doctor of Philosophy (PhD)
Leslie Milne 1994-1998 University of Glasgow completed
Wiboon Wattanatorn 1994-1998 Robert Gordon University completed
Stephen Johnston 1995-1999 University of Aberdeen completed
Sharon Marsh 1996-1999 University of Aberdeen completed
Patrick Rooney 1996-1999 University of Aberdeen completed
Margaret-Mary Ameyaw 1997-2000 University of Aberdeen completed
Mohammed Tayeb 1998-2002 University of Aberdeen completed

Washington University School of Medicine
Division of Biology and Biomedical Sciences
MA/MD program
Steering committee 2001-2006
Chairman, Thesis committee, Eunice Lee 2001-2002, Margo Funk, 2003-2004.
Thesis committee membership, Dan Tu 2002-2003, Isaiah Turnbull 2002-2003

Doctor of Philosophy (PhD)
PhD Thesis committee service: Eric Snyder 2001-2004; Yue Yu 2002-2004; Corey Pelletier 2003-2006; Taylor Maxwell 2003-2006, Sharon Young 2003-2006,
PhD Thesis Advisor: Patrick Cahan 2005-2009, Janna Hutz 2005-2010.

University of North Carolina
Doctor of Philosophy (PhD)
PhD Thesis Advisor: Roshawn Watson 2006-2010 (Royster Fellowship Awardee), Venita Grisham 2006-2010 (NIH F31 Awardee), Dan Hertz 6/2008-1/2013 (AFPE Awardee), Nancy Gillis (6/2012-5/2017 (AFPE Awardee).
PhD Thesis committee service: Patrick Roberts, 2006-2007, Huali Wu, 2006-2011 (committee Chair), Christina Santos 2007-2011 (committee Chair), Katie Theken, 2007-2011 (AFPE Awardee),

Jasmine Talemeh, 6/2008-12/2012 (AFPE awardee, committee Chair), Gina Song (6/2008-5/2014, committee chair), Crissy Dodson (School of Nursing), 1/2010-12/2012, Katie Hacker (1/2011-10/2013), Kim Maxfield (1/2011-6/2015).

Masters of Science (MSc)

MSc Thesis Advisor: Brent Hehl 2010-2012.

Central South University – thesis advisor

Masters of Science Biaobo Xu (2016)

Weili Wang (2017)

Shangchen Xie (2018)

Ping Liao (2019)

Wei Li (expected 2020)

Doctor of Philosophy (PhD)

Chengfang Zhou (2017)

Dongya Shen (expected 2019)

Precision Oncology Clinical Fellowship – Moffitt Cancer Center

1. Todd Knepper, PharmD (2016)
2. Cory Vela, PharmD (2016)
3. James Saller, MD (2016)
4. Daryoush Saeed-Vafa, MD (2017)
5. Ryan Nelson, PharmD (2020)
6. Bendiya Patel, MD (2020)
7. Michael Fusco, PharmD (expected 2021)

National Committee Service:

American Medical Association

AMA/FDA Pharmacogenomics and Personalized Medicine CME, Faculty,
<http://ama.learn.com>, March, 2006-July, 2007

Cancer And Leukemia Group B/Alliance

Vice-Chair, Pharmacology and Experimental Therapeutics (PET) Committee March, 2001-September, 2011

Vice-Chair, Population Pharmacology and Pharmacogenomics (PPP) Committee September, 2011-present

Member, Board of Directors, September, 2006-June, 2007.

Member, Executive Committee, September, 2010-2015

Member, Translational Research Executive Committee, September, 2011-2018

Coriell Personalized Medicine Collaborative. Pharmacogenetics Advisory Committee March, 2010-2018.

C3:Colorectal Cancer Coalition. Member, Medical Review Network. 2006-present.

Foundation for the National Institutes of Health. Member, The Biomarkers Consortium. June, 2007-May, 2008.

Food and Drug Administration

- Member, Sub-committee on Clinical Pharmacology September, 2002-July, 2007
- Member, Committee on Clinical Pharmacology August, 2007-June, 2013.
- Consultant & *ad hoc* reviewer, Gastrointestinal Advisory Committee. Aprepitant approval. March, 2003
- Consultant & presenting expert, Pediatric Hematology/Oncology subcommittee, Oncology Drugs Advisory Committee July, 2003
- Consultant, Third Wave Technologies Invader assay for UGT1A1, October, 2004.
- Consultant, carbamazepine-induced cutaneous adverse effects. July, 2007.

National Institutes of Health

NIGMS Pharmacogenetics Research Network

- Member, Executive Committee August, 2001-July, 2010

National Cancer Institute

- NCI Colorectal Cancer Progress Review Group Roundtable, January, 2000.
- Aids Malignancy Consortium Advisory meeting. September, 2003.
- Translational Research Working Group. October, 2005-2007
- NCI Colon/Rectal Clinical Trials Planning group, January, 2011
- NCI Frontiers of Predictive Oncology and Computing, July, 2016

National Human Genome Research Institute

- Member and Chair, Expert Scientific Panel, eMERGE Network (Electronic Medical Record and Genomics). February, 2008-December, 2019.
- National Advisory Council for Human Genome Research, September, 2010-September, 2014
- NHGRI Genomic Medicine Working Group, December, 2011-December, 2019
- Organizer: Genome Medicine VIII meeting
- Speaker: Genome Medicine II-IX meetings

Personalized Medicine Coalition

- Board of Director, January, 2015-present
- Chairman (with Dr Lincoln Nadauld), Science Policy Committee, January, 2019-present

Medco Health Solutions, Laboratory & Therapeutics Committee, November, 2006-July, 2012

International Committee Service

- Cancer Research United Kingdom (CRUK) Scientific Plan Review: Biomarkers. Committee member. January, 2008.
- Cancer Research United Kingdom (CRUK) Experimental Cancer Medicine Centre (ECMC) Quinquennial Review. Lead Reviewer. June, 2011.
- World Health Organization. Expert Panel of the WHO project, *Grand Challenges in Genomics for Public Health in Developing Countries*. June, 2011-2014.

Current NIH peer-reviewed grant support

2R01CA161608 Motsinger-Reif, McLeod, Wiltshire (MPI) 03/01/2012 – 03/31/2022

NCI/NIH

Genetic Etiology of Cancer Drug Response

Role: Principal Investigator

R01 CA219389 (Jim) 6/1/2018 – 05/31/2023
NCI/NIH
Improving Prediction of Chemotherapy-Induced Nausea: Integrating Genes, Behavior, and the Microbiome
Role: Co-Investigator

R01 CA214647 (Jim) 06/12/2018 – 05/31/2023
NCI/NIH
Randomized Placebo Controlled Trial of Bupropion for Cancer Related Fatigue
Role: Co-Investigator

Previous NIH Grant support

U01HG007437 (PI: Berg) 9/23/13-7/31/17
NIH/NHGRI \$1,400,000
A knowledge base for clinically relevant genes and variants
Role: Co-Investigator, PI on Moffitt Cancer Center subcontract

1R01HL110380-01A1 (PI: Buse, Wagner, McLeod) 05/01/12-04/30/16
NIH/NHLBI \$520,496
An Exome-Focused Approach to Pharmacogenetic Analysis of the ACCORD Trial

UL1 RR025747 (PI: Runge) 05/19/08-04/30/13
NIH/NCRR \$8,000,000
UNC Clinical and Translational Science Award

P01 CA142538 (PI: Kosorok) 04/01/10-03/31/15
NIH/NCI \$2,116,531
Statistical methods for cancer clinical trials (Proj 4)

P01 CA101937 (PI: Ley) 09/19/03-08/31/13
NIH/NCI \$2,000,000
Genomics of Acute myelogenous Leukemia (Project 6)

R21CA123881 (PI: Lockhart) 05/22/07 – 4/30/11
NIH/NCI \$65,186
Pharmacogenomically Selected Treatment for Gastric and Gastroesophageal Junction:

P50 CA106991 (PI: Tepper) 08/09/04 – 7/31/10
NIH/NCI \$1,650,186
Specialized Programs of Research Excellence in Gastrointestinal Cancer:
Pharmacogenomic dissection of metastatic colorectal cancer (Project 6)

UO1 GM063340 (PI: McLeod) 08/01/01 - 07/31/10
Functional polymorphism analysis in drug pathways \$1,513,752

P50 HL077113 (PI: Kelly) 2/22/05 – 12/31/09

NIH SCCOR Project 5 & Core B	\$2,785,749
The major goals of these projects are to evaluate genetic predictors of therapy for metabolic syndrome/acute cardiac syndrome.	
Role: Co-Investigator	
R21 CA113491 (PI: McLeod)	7/01/05 – 6/30/09
NIH/NCI	\$120,000
Ovarian Cancer Pharmacogenetics	
The major goals of this project are to evaluate genetic predictors of toxicity and efficacy to chemotherapy for ovarian cancer.	
MO1 RR00036 (PI: Peck)	12/01/01 – 4/30/06
NIH/NCRR	\$4,092,450
Washington University General Clinical Research Center	
The major goals of this project are to provide a pharmacogenetics core for GCRC users.	
Role: Co-Investigator	
R01 HL71083 (PI: Gage)	03/01/03 – 02/28/04
NIH/NHLBI	\$130,690
Pharmacogenetics and Antithrombotic Therapy	
The major goals of this project are to evaluate the influence of CYP2C9 and other candidate genes on the anticoagulate activity of warfarin.	
Role: Co-Investigator	
R21CA102461 (PI: McLeod)	08/01/03 – 07/31/05
NIH/NCI	\$168,055
Pharmacogenetics of advanced colorectal cancer	
The major goal of this project is to evaluate the relationship between genetic polymorphism in candidate genes and measures of toxicity, tumor response, and survival after 5-fluorouracil, irinotecan, and oxaliplatin.	
R01CA095713 (PI: Rader)	08/01/03 – 07/31/08
NIH/NCI	\$336,651
Genetic Susceptibility to Cervical Cancer	
The major goals of this project are to identify markers that associate with cervical cancer.	
Role: Co-Investigator	
R01 HL74724 (PI: Gage)	09/30/2003 - 08/31/2007
NIH	\$ 563,026
Pharmacogenetics, Biomarkers, and Antithrombotic Therapy	
The major goals of this project are to evaluate the pharmacogenetics of antithrombotic therapy.	
Role: Co-Investigator	
P30CA091842 (PI: Eberlein)	08/02/01 - 06/30/06
NIH/NCI	\$850,000
Cancer Center Support Grant	
The major goal of this project is operation of the Cancer Center Pharmacology Core.	

Publications:

1. McGuire TR, McLeod HL. Viral infections in bone marrow transplantation. *Highlight on Antineoplastic Drugs* 1988;6:42-47.
2. McLeod HL, Baker Jr DK, Pui C-H, Rodman JH. Somnolence, hypotension, and metabolic acidosis following high-dose teniposide treatment in children with leukemia. *Cancer Chemother Pharmacol* 1991;29:150-154.
3. McLeod HL, McGuire TR, Yee GC. Stability of cyclosporine in dextrose 5%, NaCl 0.9%, dextrose/amino acid solution, and lipid emulsion. *Ann Pharmacotherapy* 1992;26:172-175.
4. McLeod HL, Relling MV, Crom WR, Silverstein K, Groom S, Rodman JH, Rivera GK, Crist WM, Evans WE. Disposition of antineoplastic agents in the very young child. *Br J Cancer*, 1992;66 (Suppl. XVIII), S23-S29.
5. McLeod HL, Relling MV. Stability of etoposide solution at room temperature. *Am J Hosp Pharm* 1992;49:2784-2785.
6. McLeod HL, Evans WE. Pediatric pharmacokinetics and therapeutic drug monitoring. *Pediatr Rev* 1992;13:413-421.
7. Rodman JH, Relling MV, Stewart CF, Synold TW, McLeod H, Kearns C, Stute N, Crom WR, Evans WE. Clinical pharmacokinetics and pharmacodynamics of anticancer drugs in children. *Semin Oncol* 1993;20:18-29.
8. Evans WE, Relling MV, Rahman A, McLeod HL, Scott EP, Lin J-S. Genetic basis for a lower prevalence of deficient CYP2D6 oxidative drug metabolism phenotypes in Black American. *J Clin Invest* 1993;91:2150-2154.
9. McLeod HL, Miller DR, and Evans WE. Azathioprine-induced myelosuppression in thiopurine methyltransferase deficient heart transplant recipient [letter]. *Lancet* 1993;341:1151.
10. McLeod HL, Lin J-S, Pui C-H, Scott EP, Evans WE. Thiopurine methyltransferase activity in American white subjects and black subjects. *Clin Pharmacol Ther* 1994;55:15-20.
11. McLeod HL, Fang L, Luo X, Scott EP, Evans WE. Ethnic differences in erythrocyte catechol-O-methyltransferase activity in black and white Americans. *J Pharmacol Exper Ther* 1994; 270:26-29.
12. McLeod HL, Concordance of phenotype and genotype for CYP2D6 [letter]. *Clin Pharmacol Ther* 1994;56:463.
13. McLeod HL, Douglas F, Oates M, Symonds RP, Prakash D, van der Zee AGJ, Kaye SB, Brown R, Keith WN. Topoisomerase I and II activity in human breast, cervix, lung, and colon cancer. *Int J Cancer* 1994; 59:607-611.
14. McLeod HL. Clinical reversal of the multidrug resistance phenotype: True tumour modulation or pharmacokinetic interaction? *Eur J Cancer* 1994; 30A:2039-2041.
15. Relling MV, McLeod HL, Bowman LC, Santana VM. Etoposide pharmacokinetics and pharmacodynamics after acute and chronic exposure to cisplatin. *Clin Pharmacol Ther* 1994;

- 56:503-11.
16. Hollander D, Pradas J, Kaplan R, McLeod HL, Evans WE, Munsat TL. High-dose dextromethorphan in amyotrophic lateral sclerosis: Phase I safety and pharmacokinetic studies. *Ann Neurol* 1994;36:920-924.
 17. McLeod HL, Relling MV, Liu Q, Pui C-H, Evans WE. Polymorphic thiopurine methyltransferase in erythrocytes is indicative of activity in leukemic blasts from children with acute lymphoblastic leukemia. *Blood* 1995;85:1897-1902.
 18. McLeod HL. Commentary on interactions between 6-mercaptopurine therapy and thiopurine-methyl-transferase (TPMT) activity. *Eur J Clin Pharmacol* 1995;48:85-86.
 19. McLeod HL, Krynetski EY, Wilimas JA, Evans WE. Higher activity of polymorphic thiopurine S-methyltransferase in erythrocytes from neonates compared to adults. *Pharmacogenetics* 1995;5:281-286.
 20. Cassidy J, McLeod HL. Is it possible to design a logical development plan for an anticancer drug? *Pharmaceutical Medicine* 1995;9:95-103.
 21. McMurrough J, McLeod HL, Analysis of the dihydropyrimidine dehydrogenase polymorphism in a British population. *Brit J Clin Pharmacol* 1996;41:425-427.
 22. McLeod HL, Graham MA, Aamdal S, Setanoians A, Groot Y, Lund B on behalf of the EORTC Early Clinical Trials Group. Phase I pharmacokinetics and limited sampling strategies for the bioreductive alkylating drug EO9. *Eur J Cancer* 1996;32:1518-1522.
 23. McLeod HL, Kumar A. Metabolism of Azathioprine [letter]. *Transplantation* 1996;61:1425.
 24. McLeod HL, Fernandez-Salguero P, Gonzalez FJ. Pyrimidines and CNS regulation- Reply [letter]. *TiPS* 1996;17:107.
 25. McLeod HL, Keith WN. Variation in topoisomerase I gene copy number as a mechanism for intrinsic drug sensitivity. *Br J Cancer* 1996;74:508-512.
 26. Wei X, McLeod HL, McMurrough J, Gonzalez FJ, Fernandez-Salguero P. Molecular basis of the human dihydropyrimidine dehydrogenase deficiency and 5-fluorouracil toxicity. *J Clin Invest* 1996;98:610-615.
 27. McLeod HL, Murray LS, Wanders J, Setanoians A, Graham MA, Pavlidis N, Heinrich B, ten Bokkel Huinink WW, Wagener DJTh, Aamdal S, Verweij J. Multicentre phase II pharmacological evaluation of rhizoxin. *Br J Cancer* 1996;74:1944-1948.
 28. McLeod HL, Brunton VG, Eckardt N, Lear MJ, Robins DJ, Workman P, Graham MA. *In vivo* pharmacology and antitumour evaluation of the tyrphostin tyrosine kinase inhibitor RG13022. *Br J Cancer* 1996;74:1714-1718.
 29. Ridge SA, Brown O, McMurrough J, Fernandez-Salguero P, Evans WE, Gonzalez FJ, McLeod HL. Mutations at Codon 974 of the *DPYD* gene are a rare event. *Br J Cancer*

- 1997;75:178-179.
30. Wattanatorn W, McLeod HL, Cassidy J, Kendle KE. High-performance liquid chromatographic assay of 5-fluorouracil in human erythrocytes, plasma, and whole blood. *J Chromat B* 1997;692:233-237.
 31. McLeod HL. Therapeutic drug monitoring opportunities in cancer therapy. *Pharmacol Ther* 1997;74:39-54.
 32. Wattanatorn W, McLeod HL, MacKlon F, Reid M, Kendle KE, Cassidy J. Comparison of 5-fluorouracil pharmacokinetics in whole blood, plasma, and red blood cell in patients with colorectal cancer. *Pharmacotherapy* 1997;17:881-886.
 33. McLeod HL. Therapeutic drug monitoring of antineoplastic therapy. *Syva Drug Monitor* 1997;2:1-4.
 34. McKay JA, Murray GI, Keith WN, McLeod HL. Amplification of fluorescent *in situ* hybridisation signals in formalin fixed paraffin wax embedded sections of colon tumour using biotinylated tyramide. *J Clin Pathol: Mol. Pathol.* 1997;50:322-325.
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Patents (none as primary applicant)

1. United States Patent 8,440,442. Issued May 14, 2013 Method of assaying 5-fluorouracil. Inventors: Roa; Benjamin; (Salt Lake City, UT) ; Colvin; Carrie; (Salt Lake City, UT); Overfield; Michael; (Salt Lake City, UT) ; McLeod; Howard; (Chapel Hill, NC) ; Salamone; Salvatore; (Bethlehem, PA) (International patent application pending).
2. United States Patent Application 20080108712 NUCLEOTIDE SEQUENCE ASSOCIATED WITH ACUTE CORONARY SYNDROME AND MORTALITY Cresci; Sharon; (St. Louis, MO) ; McLeod; Howard L.; (Chapel Hill, NC) ; Kelly; Daniel P.; (St. Louis, MO) ; Spertus; John A.; (Kansas City, MO)

Published Abstracts:

Dr McLeod has over 500 published abstracts

Invited Lectures/Presentations:

Dr McLeod has given over 1000 invited lectures in 42 countries.