

## CURRICULUM VITAE

**Dennis Darrel Black, M.D.**

June,2005

### Persona) Data

Office Address: Children's Foundation Research Center of Memphis  
Le Bonheur Children's Hospital  
50 N. Dunlap  
Memphis, TN 38103

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### Education

High School	Covington High School Covington, TN
Undergraduate	Memphis State University, Memphis, TN, July, 1971-June 1975, B.S. (Physical Science)
Medical School	University of Tennessee School of Medicine, University of Tennessee Center for the Health Sciences, Memphis, TN, July 1975-June 1978, M.D.
Internship	Pediatric Internship, Le Bonheur Children's Medical Center, Memphis, TN, July 1978-June 1979
Residency Memphis,	Pediatric Residency, Le Bonheur Children's Medical Center, TN, July 1979-June 1981

Fellowship  
Medica]                      Pediatric Gastroenterology Fellowship, Le Bonheur Children's  
Center, Memphis, TN, July 1981-June 1984

**Honors**

High School:    Salutatorian of Class of 1971

Science Award

Selected for participation in seminar on "Radiation and its biological effects"; Oak Ridge, TN in 1971; sponsored by the National Science Foundation

Undergraduate: Graduated Magna Cum Laude

Medica] School: J.P. Quigley Award in Physiology

Sigma Xi Student Research Award

Merck Medica] Publications Book Award

The University of Tennessee School of Medicine Special Achievement Award

Alpha Omega Alpha Honor Society

Professional:    Certificate of Appreciation for the contribution toward the medical education of the students at Pritzker School of Medicine (9/27/89)

Award of Appreciation from Mead Johnson Nutritionals for serving as Director of the Annual NASPGN/Mead Johnson Research Forum for Pediatric Gastroenterologists 1994-1996

Listing in Woodward/White's *Best Doctors in America*, 1998, 1999, 2000, 2001, 2002, 2003, 2004

Listing in the National Registry of *Who's Who*, 2001

Certificate of Appreciation, for outstanding contribution to the UT Memphis Challenge Program, 2001, 2002, 2003, 2004

Lifetime Achievement Award, Mid-South Chapter of the American Liver Foundation, 2005.

**Military Service**

None.

**Board Certification**

Diplomate, American Board of Pediatrics and Pediatric Gastroenterology Sub-Board (Re-certified in 1997 and 2004)

**Medical Licensure**

State of Arkansas, #N-8410 (Inactive)

State of Illinois, #036-068743 (Inactive)

State of Tennessee, #MD013581 (Active)

**Society Memberships**

- 1978 - Present    Research Society of Sigma Xi
- 1978 - Present    Alpha Omega Alpha Honor Society
- 1975 - Present    Honor Society of Phi Kappa Phi
- 1983 - Present    North American Society for Pediatric Gastroenterology, Hepatology and Nutrition
- 1983 - Present    American Gastroenterological Association and Gastroenterology Research Group
- 1984 - 1993       Chicago Pediatric Society
- 1985 - 1993       Midwest Gut Club
- 1990 - Present    American Heart Association
- 1990 - Present    American **Heart** Association Councils on Arteriosclerosis and Cardiovascular Disease in the Young
- 1990 - Present    Society for Pediatric Research
- 1992 - Present    American Heart Association Basic Science Council

- 1993 - Present Member, American Association for the Study of Liver Diseases
- 1995 - Present Member, Southern Society for Pediatric Research
- 1998 - Present Member, Southern Society for Clinical Investigation
- 2002 - Present American Society for Biochemistry and Molecular Biology (ASBMB)
- 2002 - Present Federation of American Societies for Experimental Biology (FASEB)
- 2005 - Present Member, American Pediatric Society

### University Appointments

- 2001-Present Professor of Physiology, University of Tennessee Health Science Center, Memphis, TN
- 2000 Granted tenure, Department of Pediatrics, University of Tennessee Health Science Center, Memphis, TN
- 1998-Present Professor of Pediatrics; Scientific Director, Children's Foundation Research Center, Le Bonheur Children's Medical Center, Department of Pediatrics, University of Tennessee Health Science Center, Memphis.
- 1997 - 1998 Professor of Pediatrics with tenure; Section of Pediatric Gastroenterology, Hepatology, and Nutrition; Arkansas Children's Hospital; The University of Arkansas for Medical Sciences; Little Rock, AR
- 1994 - 1998 Training Director; Section of Pediatric Gastroenterology, Hepatology, and Nutrition; Arkansas Children's Hospital; The University of Arkansas for Medical Sciences; Little Rock, AR
- 1994 - 1997 Associate Professor of Pediatrics; Section of Pediatric Gastroenterology; Arkansas Children's Hospital; The University of Arkansas for Medical Sciences; Little Rock, AR
- 1991 - 1993 Associate Professor of Pediatrics; Section of Pediatric Gastroenterology, Hepatology, and Nutrition; Wyley Children's Hospital; The University of Chicago; Chicago, IL
- 1989 - 1993 Training Director; Section of Pediatric Gastroenterology, Hepatology, and Nutrition; Wyley Children's Hospital; The University of Chicago; Chicago, IL

- 1984 - 1991 Assistant Professor of Pediatrics; Section of Pediatric Gastroenterology, Hepatology, and Nutrition; Wyler Children's Hospital; The University of Chicago; Chicago, IL
- 1981 - 1984 Instructor, Department of Pediatrics, The University of Tennessee Center for the Health Sciences; College of Medicine; Memphis, TN
- 1981 - 1984 Research Fellow in Pediatric Gastroenterology; The University of Tennessee Center for the Health Sciences; Memphis, TN (directed by Peter F. Whittington, M.D. and Seymour M. Sabesin, M.D.)

### **Hospital Appointments**

- 2005 - Present Member, Senior Leadership Council, Le Bonheur Children's Medical Center, Memphis, TN
- 2004 - Present Vice President for Research, Le Bonheur Children's Medical Center, Memphis, TN
- 2002 - Present Le Bonheur Medical Staff Division Consultant for Gastroenterology
- 1998 - Present Attending Physician, Le Bonheur Children's Hospital, Memphis, TN
- 1996 - 1998 Chairman; Nutrition Committee; Department of Pediatrics; Arkansas Children's Hospital; Little Rock, AR
- 1996 - 1998 Chairman, Medical Staff Nominating Committee; Arkansas Children's Hospital; Little Rock, AR
- 1995 - 1996 Member; Nutrition Committee; Department of Pediatrics; Arkansas Children's Hospital; Little Rock, AR
- 1995 - 1996 Member; Clinical Practice Committee; Department of Pediatrics; Arkansas Children's Hospital; Little Rock, AR
- 1994 - 1998 Attending Physician, Arkansas Children's Hospital, Little Rock, AR
- 1994 - 1996 Member; Infection Control Committee; Department of Pediatrics; Arkansas Children's Hospital, Little Rock, AR
- 1990 - 1993 Director; Family Lipid Clinic; Wyler Children's Hospital; The University of Chicago; Chicago, IL
- 1984 - 1994 Attending Physician, Wyler Children's Hospital, Chicago, IL

### Teaching-Formal Courses

Human Developmental Biology 221, undergraduate course, University of Chicago. Lectures and seminar on development of gastrointestinal structure and function and developmental aspects of nutrition.

Medical Biology 304, required medical student course, University of Chicago, Pritzker School of Medicine. Lectures on liver physiology.

Nutrition in Health and Disease, Medicine 140-302-01, required medical student course, University of Chicago, Pritzker School of Medicine. Lead small group (18 students) in weekly discussion sessions for entire semester.

Clinical Pathophysiology Course, required medical student course, University of Chicago, Pritzker School of Medicine. Lecture and discussion on the pathophysiology of chronic liver disease.

Senior Medical Student Clinical Nutrition Elective, University of Arkansas for Medical Sciences, College of Medicine. Lecture and discussion on screening for and treating hyperlipidemia in children.

Junior Medical Student Gastrointestinal Physiology Course, University of Arkansas for Medical Sciences, College of Medicine. Clinicopathologic Conference-Case presentations and discussion.

UAMS Department of Pediatrics Research Skills Course. Seminar on "NIH Grant Preparation and Review".

University of Tennessee School of Medicine Course "Ethical Issues in Research". Seminar on "Scientific Misconduct".

University of Tennessee School of Medicine Course "Molecular Basis of Disease". Four lectures on cholesterol and lipoprotein metabolism and clinical correlations on disorders of cholesterol and lipid metabolism.

### Visiting Professorships and Invited Lectures (1988 to Present)

9/2/88-Grand Rounds, Department of Pediatrics, Michael Reese Hospital, Chicago, IL.  
"Lipid Disorders in Children"

9/6/88-Grand Rounds, Department of Medicine, University of Chicago, Chicago, IL.  
"Family Approach to Lipid Disorders"

9/27/88-Invited speaker, Clinicopathologic Conference, Lutheran General Hospital, Park Ridge, IL. "Child with Protein-Losing Enteropathy"

4/14/89-Grand Rounds, Department of Pediatrics, Columbus Hospital, Chicago, IL. "Neonatal Cholestasis"

2/19/90-Grand Rounds, Department of Pediatrics, Loyola Medical Center, Chicago, IL. "Neonatal Cholestasis"

8/12/90-8/17/90-Invited Participant, FASEB Conference on "Intestinal Lipid Absorption", Saxton Rivers, VT.

10/16/90-SCORE Lectureship, University of Chicago, Chicago, IL. "Developmental Regulation of Intestinal Apolipoprotein Gene Expression"

2/28/91-Public Lecture, St. Joseph Medical Center, Joliet, IL. "Cholesterol Screening"

8/2/91-Invited Speaker, Cook County Graduate School of Medicine, Chicago, IL. "Neonatal Cholestasis"

9/6/91-Grand Rounds, Department of Pediatrics, University of Iowa, Iowa City, IA. "Abetalipoproteinemia and Disorders of Lipoprotein Secretion"

11/17/91-11/20/91-Invited Participant, Mead Johnson Conference on Neonatal Nutrition, Palm Springs, CA.

1/20/92-Grand Rounds, Department of Pediatrics, Mercy Hospital, Chicago, IL. "Neonatal Cholestasis"

2/29/92-Invited Speaker, Midwest Clinical Conference, Chicago, IL. "Cholesterol Screening in Children"

3/4/92-Invited Speaker, Cook County Graduate School of Medicine, Chicago, IL. "Neonatal Cholestasis"

6/2/92-Grand Rounds, Department of Pediatrics, University of Illinois, Chicago, IL. "Update on Pediatric Liver Transplantation"

6/16/92-Invited Speaker, Malcolm Feist Symposium on Mucosal Function, Injury, and Repair, Departments of Physiology and Biophysics, Pediatrics, and Cellular Biology and Anatomy, Louisiana State University School of Medicine, Shreveport, LA. "Use of Cell Culture in Studying Intestinal Lipoprotein Metabolism During Development"

6/26/92-Grand Rounds, Department of Pediatrics, Columbus Hospital, Chicago, IL. "Hepatitis in Children"

9/16/92-Invited Speaker, Centre de Recherche, Hopital Sainte-Justine, University of Montreal, Montreal, Quebec, Canada. "Apo A-IV: A Search for Its Role in the Intestine"

11/19/92-Invited Speaker, Nutrition Research Conference, Department of Pediatrics, University of Arkansas, Little Rock, AR. "Regulation of Intestina! Apolipoprotein Gene Expression During Development"

12/8/92-Invited Speaker, Combined Pediatric and Medicine Grand Rounds, University of Chicago, Chicago, IL. "Cholesterol Screening in Children and Adolescents"

1/20/93-Invited Speaker, Lipid and Lipoprotein Research Group, University of Alberta, Edmonton, Alberta, Canada. "Intestina! Apolipoprotein Expression in the Piglet"

1/21/93-Invited Speaker, Grand Rounds, Department of Pediatrics, University of Alberta, Edmonton, Alberta, Canada. "Abetalipoproteinemia and Disorders of Lipoprotein Secretion"

3/10/93-Invited Speaker, Grand Rounds Case Conference, Department of Pediatrics, University of Illinois, Chicago, IL. "Cholestasis in a Neonate"

5/18/93-Invited Speaker, Cardiology Grand Rounds, Department of Medicine, Rush-Presbyterian-St. Luke's Medical Center, Rush Medical College, Chicago, IL. "Cholesterol Screening in Children and Adolescents"

6/2/93-Invited Speaker, Pediatric Research Lecture, Department of Pediatrics, Duke University School of Medicine, Durham, NC. "Developmental Regulation of Intestina! Apolipoprotein Expression in the Piglet"

7/28/93-Invited Speaker, Pediatric Grand Rounds, Department of Pediatrics, University of Chicago, Chicago, IL. "Abetalipoproteinemia and Disorders of Lipoprotein Secretion"

11/3/93-Invited Speaker, State-of-the-Art Lecture, Midwest Society for Pediatric Research Annual Meeting, Chicago, IL. "Update on Pediatric Liver Transplantation"

4/1/94-Invited Speaker, Research Seminar, Department of Physiology, University of Arkansas for Medical Sciences, Little Rock, AR. "Regulation of Intestina! Apolipoprotein Gene Expression in the Developing Swine"

4/7/94-4/10/94-Meeting Chairman, North American Society for Pediatric Gastroenterology and Nutrition/Mead Johnson Research Forum for Pediatric Gastroenterologists, Lago Mar Resort, Ft. Lauderdale, FL.

7/30/94-8/4/94-Invited Speaker, FASEB Summer Conference on Intestinal Lipid Absorption, Saxtons River, VT. Moderator of session on Neonatal Development of Intestinal Lipid Absorption. "Regulation of Apolipoprotein Gene Expression in the Neonate"



8/30/94-Invited Speaker, Central Arkansas Pediatric Society, Little Rock, AR. "Cholesterol Screening in Children"

10/6/94-Invited Speaker, Residents Research Conference, Department of Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR. "Regulation of Intestinal Apolipoprotein Gene Expression in the Developing Swine"

10/6/94-Invited Speaker, Combined Adult and Pediatric GI Clinical Conference, Departments of Pediatrics and Medicine, University of Arkansas for Medical Sciences, Little Rock, AR. "Neonatal Cholestasis"

10/7/94-Invited Speaker, Residents Clinical Conference, Department of Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR. "Approach to the Cholestatic Infant"

10/10/94-10/12/94-Member of Organizing Committee and Co-Chair of Plenary Session, Fourth Joint Meeting of the North American Society for Pediatric Gastroenterology and Nutrition and the European Society for Pediatric Gastroenterology and Nutrition, Houston, TX.

11/5/94-Invited Speaker, First Annual Update of Pediatric Gastroenterology, Liver Disease, and Nutrition, Miami Children's Hospital, Miami, FL. "Cholesterol Screening and Treatment in Children" and "Neonatal Cholestasis"

3/20/95-Invited Speaker, Arkansas Children's Hospital Research Institute Developmental Nutrition Seminar, University of Arkansas for Medical Sciences, Little Rock, AR. "Regulation of Intestinal Apolipoprotein Gene Expression in the Newborn"

6/22/95-6/23/95-Invited Speaker, International Symposium on Pediatric Gastroenterology and Nutrition "From Basic Research to Clinical Applications", Montreal, Canada. Moderator of plenary session IV. Presented paper entitled "Short-term regulation of intestinal apolipoprotein expression in the newborn piglet by dietary lipid of varying fatty acid composition"

7/18/95-Invited Speaker, Pediatric Grand Rounds, Department of Pediatrics, University of Arkansas for Medical Sciences, Arkansas Children's Hospital, Little Rock, AR. "Neonatal Cholestasis"

3/5/96-Invited Speaker, AHEC Lecture Series, AHEC Center Northeast, Jonesboro, AR. "Cholesterol Screening in Children"

3/19/96-Invited Speaker, Green County Medical Society, Paragould, AR. "Cholesterol Screening in Children"

3/28/96-3/31/96-Meeting Chairman, North American Society for Pediatric Gastroenterology and Nutrition/Mead Johnson Research Forum for Pediatric Gastroenterologists, Lago Mar Resort, Ft. Lauderdale, FL.

4/27/96-Invited Speaker, 13th Annual W. W. Stead Arkansas Spring Chest Symposium, sponsored by UAMS, Arkansas State Department of Health, and Arkansas Thoracic Society, Heber Springs, AR. "Gastroesophageal Reflux and Pulmonary Disease"

5/22/96-Invited Speaker, American Gastroenterological Association Research Symposium on "Cellular and Molecular Mechanisms of Intestinal Adaptation" at the Annual AGA Meeting, San Francisco, CA. "Adaptation of the Neonatal Intestine to Dietary Lipid: Effect on Apolipoprotein Gene Expression"

10/12/96-Invited Speaker, Annual Meeting of the Arkansas Chapter of the American Academy of Pediatrics, Petit Jean State Park, AR. "Cholesterol Screening in Children"

12/12/96-Invited speaker, Arkansas Department of Health, Annual Pediatric Update, St. Vincent's Center for Health Education, Little Rock, AR. "Hyperlipidemia in Children"

4/10/97-Invited speaker, Arkansas Dietetic Association Annual Meeting, Little Rock, AR. "Hyperlipidemias in Children"

5/2/97-Organizer and chair, Educational Workshop "Non-NIH Sources of Funding-Basic and Clinical Research". Annual Meeting of the Pediatric Academic Societies, Washington, D.C.

5/14/97-Co-chair, Growth, Development, and Nutrition Research Forum: "Nutrient Influences on Gene Expression" American Gastroenterological Association Annual Meeting, Washington, D.C.

9/10/97-9/12/97-Ray *Kroc* Visiting Professorship in Pediatrics at the University of Alabama at Birmingham, Birmingham, AL.

12/6/97-Invited speaker, Fourth Annual Update on Pediatric Gastroenterology, Liver Disease, and Nutrition at Miami Children's Hospital, Miami, FL. "Liver Evaluation Tests in Children" and "Recent Advances in Metabolic Liver Diseases"

2/12/98-Invited speaker, Arkansas Children's Hospital Research Institute Research Seminar, Little Rock, AR. "Role of Apolipoproteins in Lipoprotein Assembly and Secretion"

4/16/98-Invited speaker, Department of Physiology and Biophysics, University of Tennessee School of Medicine, Memphis, TN. "Regulation of Lipoprotein Synthesis and Apolipoprotein Expression in a Newborn Piglet Intestinal Cell Line"

4/17/98-Invited speaker, Division of Gastroenterology, Department of Medicine, University of Tennessee School of Medicine, Memphis, TN. "Nutrition in Pediatric Patients"

5/3/98-Organizer and chair, Educational Workshop "Non-NJH Sources of Funding-Basic and Clinical Research". Annual Meeting of the Pediatric Academic Societies, New Orleans, LA.

6/5/98-6/6/98-Visiting Professor and invited speaker in a symposium entitled, "Advances in Treatment of Common Pediatric Liver and Intestinal Diseases", lecture entitled, "Cirrhosis in Children: Pathophysiology, Complications, and Treatment", in the Division of Pediatric Gastroenterology, Hepatology, and Nutrition, St. Louis Children's Hospital, Washington University School of Medicine, St. Louis, MO.

1/22/99-Invited speaker, Research Seminar, Division of Gastroenterology, Department of Medicine, University of Tennessee School of Medicine, Memphis, TN. "Intestinal Apolipoprotein Expression in the Developing Piglet"

2/22/99-Invited speaker, Research Seminar, Department of Pharmacology, University of Tennessee School of Medicine, Memphis, TN. "Intestinal Apolipoprotein Expression in the Developing Piglet"

3/26/99-Invited speaker, Annual Etteldorf Symposium, Department of Pediatrics, University of Tennessee School of Medicine, Memphis, TN. "Why Are Our Children Overweight and What Can We Do About It?"

5/1/99-Organizer and chair, Educational Workshop "Non-NIH Sources of Funding-Basic and Clinical Research". Annual Meeting of the Pediatric Academic Societies, New Orleans, LA.

6/5/99-Invited speaker, 21<sup>st</sup> Annual Family Practice Intensive Review, University of Arkansas for Medical Sciences, Little Rock, AR. "Lowering Lipids"

9/14/99-Invited speaker, "Talking the Talk, Walking the Walk: A Multi-State Cardiovascular Health Conference", Adams-Mark Hotel, Memphis, TN. "Hypercholesterolemia and Cardiovascular Risk in Children and Adolescents"

2/3/00-Invited speaker, Department of Physiology Research Seminar, University of Tennessee, Memphis, College of Medicine, Memphis, TN. "Regulation of Apolipoprotein and Lipoprotein Synthesis and Secretion by Neonatal Small Intestine"

2/19/00-Invited speaker, Fifth Annual High School Research Seminar, sponsored by the American Heart Association, University of Tennessee, Memphis, College of Medicine, Memphis, TN. Keynote lecture: "Biomedical Research as a Career"

3/29/00-Invited speaker, Department of Biochemistry Research Seminar, University of Tennessee, Memphis, College of Medicine, Memphis, TN. "Regulation of Apolipoprotein and Lipoprotein Synthesis and Secretion by Newborn Swine Intestine"

4/11/00-Invited speaker, Boston Nutrition Seminar series, sponsored by the Harvard Clinical Nutrition Research Center and the Boston Obesity Research Center, at the Massachusetts

Institute of Technology, Boston, MA. "Regulation of Apolipoprotein Gene Expression in Newborn Swine"

6/1/00-Invited Keynote Speaker, Fellows Day 2000, Arkansas Children's Hospital, Department of Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR. "Regulation of Apolipoprotein and Lipoprotein Synthesis and Secretion in Newborn Swine"

9/8/00-Invited Speaker, Ninth Annual Southeastern Lipid Research Conference, Lake Lanier, GA. "Regulation of Apolipoprotein Expression in Newborn Small Intestine"

1/26/01-2/2/01-Invited Speaker, 36th Annual Miami Children's Hospital Postgraduate Course, "Perspectives in Pediatrics", Sheraton Bayside Harbour Resort, Miami Beach, FL. "Gastroesophageal Reflux", "Chronic Recurrent Abdominal Pain in Children", "Hypercholesterolemia in Children and Adolescents", and "Fat Maldigestion and Malabsorption in Children"

3/16/01-Invited speaker, Annual Etteldorf Symposium, Department of Pediatrics, University of Tennessee School of Medicine, Memphis, TN. "Hyperlipidemia: A Concern for Your Practice?"

6/15/01-6/17/01-Invited speaker, Beijing Stroke Forum, sponsored by the National Stroke Office, Institute of Neurosciences of the Chinese Academy of Medical Sciences, Beijing Neurologists Club, and the Press of World Medical Journal, Beijing, China. "Obesity in Children" and "Disorders of Lipid Metabolism"

6/21/01-6/23/01-Invited speaker, Pediatric Gastroenterology Symposium: "From Basic Research to Clinical Applications", sponsored by St. Justine Hospital, Montreal, QC, Canada. "Update on Disorders of Lipid Transport: Relation to Clinical Disorders"

4/2/02-4/4/02-Visiting Professor, Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, Little Rock, AR. Lectures: "Lipid Transport and Storage I and II". Seminar: "Role of Apolipoprotein A-IV in Neonatal Intestinal Lipid Absorption"

1/13/03-Invited speaker, Adult Hepatology Division Seminar, University of Tennessee Health Science Center, Memphis, TN: "Neonatal Cholestasis"

3/28/03-Invited speaker, Advances in Medical Sciences Seminar Series, Veterans Administration Medical Center, Memphis, TN: "Role and Regulation of Apolipoprotein A-IV in the Neonatal Small Intestine"

8/2/03-8/7/03-Invited speaker, FASEB Conference, "Molecular Biology of Intestinal Lipid Transport and Metabolism", Snowmass Village, CO: "Overexpression of Apo A-IV in Newborn Swine Enterocytes Enhances Triacylglycerol-rich Lipoprotein Secretion"

9/10/03-9/12/03-Invited speaker, Cuban Pediatric Society Annual Meeting, Miami, FL: "Neonatal Cholestasis" and "Cirrhosis in Children: Pathophysiology, Complications and Treatment"

9/16/03-Invited Speaker, Central Arkansas Gut Club, Little Rock, AR: "Management of Cirrhosis"

11/3/03-Invited Speaker, Presenter, Telemedicine Grand Rounds, Le Bonheur Children's Medical Center, "Neonatal Cholestasis"

11/5/03-11/6/03-Visiting Professor, Lipoprotein Research Unit, Department of Pathology, Wake Forest University School of Medicine, Winston Salem, NC. Presented research seminar entitled, "Role of Apolipoprotein A-IV in Intestinal Lipid Absorption"

4/8/04-Invited Speaker, UAMS Preventive Nutrition Project, University of Arkansas for Medical Science, Little Rock, AR, "Risk Factors for Atherosclerosis: An Update"

9/13/04-Invited Speaker, UTHSC Chancellor's Roundtable, Memphis, TN, "Update on the Children's Foundation Research Center"

11/5/04-Invited Speaker, Apo A-IV Symposium, Genome Research Institute, University of Cincinnati, Cincinnati, OH, "Role of Apo A-IV in Neonatal Lipid Absorption"

11/17/04-Invited Speaker, International Transplant Nurses Society Meeting, Memphis, TN.

1/26/05-Invited Speaker, Pediatric Grand Rounds, Le Bonheur Children's Medical Center, Memphis, TN, "Neonatal Cholestasis"

7/1/05-7/3/05-Visiting Professor, the Das Deutsch Center for Special Needs Children in Middlefield, OH. Annual Meeting of Amish families with children with Byler disease.

### **Editorial Boards**

2003 - Present *American Journal of Physiology: GI and Liver Physiology*

### **Manuscript Reviewer for:**

*American Journal of Gastroenterology*  
*American Journal of Physiology*  
*Archives of Pediatrics and Adolescent Medicine*  
*Atherosclerosis*  
*FEBS Letters*  
*British Journal of Nutrition*  
*Gastroenterology*  
*Hepatology*

*Journal of Biological Chemistry*  
*Journal of Clinical Investigation*  
*Journal of Lipid Research*  
*Journal of Nutrition*  
*Journal of Pediatrics*  
*Journal of Pediatric Gastroenterology and Nutrition*  
*Lipids*  
*Pediatric Research*  
*Pediatric Nephrology*

**Abstract Reviewer for:**

American Gastroenterological Association  
 North American Society for Pediatric Gastroenterology and Nutrition  
 Society for Pediatric Research  
 Southern Society for Pediatric Research

**Committees and Offices Held**

2005	Member, UTHSC Promotion and Tenure Committee
2001	Chairman, Search Committee for UT Department of Pediatrics Pediatric Cardiology Division Chief (Dr. Thomas Chin recruited)
2001	Member, Search Committee for the UT Department of Pediatrics/Center of Excellence for Genomics and Bioinformatics joint faculty
2001	Chairman, Southern Society Research Meetings Gastroenterology and Clinical Nutrition Abstract Selection Committee
2000 - 2003	Chairman, Society for Pediatric Research Student and House Officer Research Awards Selection Committee
1999 - 2002	Member, Grants Review Committee, Children's Digestive Health and Nutrition Foundation, North American Society for Pediatric Gastroenterology and Nutrition
1999 - 2002	Member, Society for Pediatric Research Council; Gastroenterology and Nutrition Representative
1999 - Present	Member, Le Bonheur Children's Medical Center Institutional Review Board, Memphis, TN

- 1999 - 2004 Member, University of Tennessee School of Medicine Institutional Review Board for Human Research, Memphis, TN
- 1997 Member, Dean's Blue Ribbon Task Force to evaluate methods to strengthen overall UAMS graduate programs in the basic sciences
- 1996 - 1999 Member, American Pediatric Society/Society for Pediatric Research/Ambulatory Pediatric Association Program Committee
- 1996 - 1998 Member, Executive Council of the North American Society for Pediatric Gastroenterology and Nutrition
- 1994 - 1998 Member; Arkansas Children's Hospital Research Institute Research Council, including subcommittees on Animal Care and Use and Clinical Research; Arkansas Children's Hospital; Little Rock, AR
- 1994 - 1998 Member; University of Arkansas for Medical Sciences Human Research Advisory Committee; Little Rock, AR
- 1993 - 1996 Chairman, Research Committee, North American Society for Pediatric Gastroenterology and Nutrition
- 1993 Member, Schwachmann Award Committee, North American Society for Pediatric Gastroenterology and Nutrition
- 1991 - 1993 Member; Resident Recruitment Committee; Department of Pediatrics; The University of Chicago; Chicago; IL
- 1991 - 1992 Pediatric Representative, Prevention Goal Committee, American Heart Association of Metropolitan Chicago
- 1984 - 1993 Appointment, University of Chicago Committee on Human Nutrition and Nutritional Biology; Chairman, Kraft Fellowship Subcommittee

### **Community**

- 2002- Present Founding Board Member, Advocacy Committee Chair, American Liver Foundation, Mid-South Chapter
- 2003 Volunteer of the Year for Advocacy, American Liver Foundation, Mid-South Chapter
- 2003 Co-Director, Musette and Allen Morgan, Jr. Foundation for the Study of Primary Sclerosing Cholangitis

2004                      Uniteci Way Campaign Representative for University of Tennessee Health  
Science Center College of Medicine

**Study Sections**

Ad Hoc Review Group for PHS NIDDK Digestive Diseases Core Centers (RFA DK 94-21),  
April 2-4, 1995.

Member, American Liver Foundation Grants Review Committee, 1996-present.

Member, Society for Pediatric Research Young Investigator Award Selection Committee,  
1996-1999.

Ad Hoc Reviewer for PHS NIGMS Minority Biomedical Research Support Program, 1996.

Ad Hoc Reviewer for PHS NIDDK Program Project Proposal "Regulation of Cholesterol  
Absorption", Department of Pathology, University of Cincinnati, April 6-7, 1998.

Temporary Member, NIH General Medicine A2 (Nutritional and Metabolic Sciences) Initial  
Review Group, October 19-20, 1998.

Ad Hoc Reviewer, NIH General Medicine A2 (Nutritional and Metabolic Sciences) Initial  
Review Group, May, 1999.

Temporary Member, NIH Nutrition Study Section, October 18-19, 1999.

Ad Hoc Reviewer, NIH Small Business Innovation Research and Small Business Technology  
Transfer Research Grant Study Section, July, 2000.

Member, NIH Special Emphasis Review Panel, Nutritional and Metabolic Sciences (SSS-T),  
October 25, 2000.

Ad Hoc Reviewer for University of Tennessee Centers of Excellence Grants, November,  
2000.

Member, NIH Special Emphasis Review Panel, Nutritional and Metabolic Sciences (SSS-T),  
June, 2001.

Member, American Heart Association Southern and Ohio Valley Research Consortium Peer  
Review Committee 2, 2002 -present.

Member, NIH NIDDK Study Section, Biliary Atresia Clinical Research Consortium,  
May, 2002.

Member, NIH NIDDK Study Section ZDK1 GRB-9 J3 P, Nutrient Uptake and Intestinal  
Immunity, December, 2002.



Chair, NIH NIDDK ad hoc KO! grant review committee, July, 2004.

Member, NIH NIDDK Study Section ZR01 F06, Endocrinology, Reproductive Science and Nutritional Metabolism, 2004-present.

Chair, NIDDK Special Emphasis Panel Review Committee for Program Project, "Molecular Mechanisms of Cholesterol Absorption," November, 2004.

Member, NIH NIDDK Rare Disease Clinical Research Network Data Safety and Monitoring Board, 2005-present.

### **Research Training-Recent Medical Students, Graduate Students, and Post-Doctoral Fellows**

**Herodotos Ellinas**-University of Chicago Medical Student. Project: "Apolipoprotein Synthesis in Newborn Piglet Intestinal Explants." Funded by a Kraft Foundation Medical Student Fellowship, Summer, 1991. This work resulted in a publication in Pediatric Research and 2 abstracts presented at national meetings.

**Reggie Zhan, M.D., Ph.D.**-University of Chicago Graduate Student, Ph.D. Program of the Committee on Human Nutrition and Nutritional Biology. Thesis advisor and mentor: Dennis D. Black, M.D., 1991-1996. Thesis title: "Modulation of Hepatic Lipoprotein Metabolism by Non-Parenchymal Cells" Dr. Zhan moved with Dr. Black to Arkansas Children's Hospital to complete his thesis work. He received his degree in Summer, 1996. Funded by the Johnny Genna Foundation (Dr. Zhan was named the Genna Foundation Scholar, 1992), NIH, and USDA. Over this period Dr. Zhan has published work in Biochemical Journal, Gene, American Journal of Physiology, Pediatric Research, and Biochemical and Biophysical Research Communications and presented numerous abstracts at national meetings. He is currently in the Armed Forces Medical Service in Washington, DC.

**Ruben Gonzalez-Vallina, M.D.**-University of Chicago Fellow in Pediatric Gastroenterology, Hepatology, and Nutrition. Project: "Lipoprotein and Apolipoprotein Synthesis and Secretion by a Newborn Piglet Intestinal Cell Line (IPEC-1)." Funded by the Johnny Genna Foundation (Dr. Gonzalez-Vallina was named the Genna Foundation Scholar, 1993), an NIH Gastroenterology Training Grant, and R01 HD22552 (DDB), 1992-1994. This work resulted in a publication in American Journal of Physiology and 2 abstracts presented at national meetings. Dr. Gonzalez-Vallina currently holds an academic position at Miami Children's Hospital.

**Heng Wang, M.D., Ph.D.**-Post-Doctoral Fellow. Dr. Wang came from the USDA Children's Human Nutrition Research Center at Baylor College of Medicine, Houston, TX and has worked in Dr. Black's Laboratory from July, 1994 to December, 1998. Project: "Intestinal Lipoproteins in the Neonate." Funded by R01 HD22552 (DDB). This work has resulted in manuscripts published in American Journal of Physiology, Pediatric Research, and Biochemical and Biophysical Research Communications and Lipids and several abstracts

presented at national meetings. He is presently Director of Research for the Das Deutsch Center for Special Needs Children in Middlefield, OH.

**Russell Roberson-Hendrix** College Undergraduate Student. Project: "Regulation of Apolipoprotein Gene Expression by Fatty Acid Uptake in a Newborn Swine Intestinal Epithelial Cell Line." Funded by NJR grant R01 HD22551 and Arkansas Children's Hospital Summer Research Program (summer, 1996). He presented an abstract at the annual meeting of the Southern Society for Pediatric Research, New Orleans, LA in February, 1997, and is co-author on a manuscript published in the American Journal of Physiology. He is currently enrolled in the M.D./Ph.D. program at Harvard Medical School.

**John Eshun, M.D.**-University of Arkansas for Medical Sciences Fellow in Pediatric Gastroenterology, Hepatology, and Nutrition. Research training in my laboratory 9/1/97-11/30/98. Project: "Biogenesis and Secretion of Lipoprotein Particles in IPEC-1 Cells". Funded by NIH grant R01 HD22551. He is co-author on two manuscripts published in the American Journal of Physiology. Dr. Eshun is currently Assistant Professor of Pediatrics at the University of Tennessee, Memphis.

**Leah Annulis-Hendrix** College Undergraduate Student. Project: "Regulation of Intestinal Apolipoprotein A-IV and C-III Expression by Dietary Lipid in Weanling Piglets." Funded by NIH grant R01 HD22551 and Arkansas Children's Hospital Summer Research Program (summer, 1998). She is co-author on an abstract presented at the annual Pediatric Academic Societies Meeting in San Francisco, CA in May, 1999.

**Song Lu, M.D.**-Post-doctoral fellow from 12/1/98 to present. Project: "Intestinal Lipoproteins in the Neonate." Funded by R01 HD22552 (DDB). Dr. Lu has focused on studies to define the mechanism of the transcriptional regulation of apo A-IV and C-III expression in neonatal small intestine, particularly the role of lipid response elements in the intergenic region and associated trans-acting factors. Dr. Lu is a co-author on manuscripts published in the American Journal of Physiology, Lipids, Journal of Biological Chemistry and Journal of Lipid Research and several manuscripts in review.

**Mark Huffman**-University of Tennessee medical student. Project: "Developmental Regulation of Intestinal and Hepatic Expression of Microsomal Triglyceride Transfer Protein in Swine." Funded by NIH grant R01 HD22551 and University of Tennessee School of Medicine NIH-sponsored Summer Student Research Program (summer, 1999). He presented his work at the World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition, Boston, MA, August, 2000. He is co-author of a manuscript published in the Journal of Lipid Research.

**John Starling**-University of Tennessee medical student. Project: "Characterization of Genes Regulated by Dietary Lipid in Newborn Swine Small Intestine." Funded by NIH grant R01 HD22551 and University of Tennessee School of Medicine NIH-sponsored Summer Student Research Program (summer, 2002).

**Sonya Mitchell**-University of Tennessee medical student. Project: "Mechanism of the Enhancement of Enterocyte Lipid Transport by Apolipoprotein A-IV." Funded by NIH

grant R01 HD22551 and University of Tennessee School of Medicine NIH-sponsored Summer Student Research Program (summer, 2003). Awarded Travel Award by the Southern Society for Pediatric Research to present abstract at the annual meeting in New Orleans, LA, February, 2004.

**Tori Hill**-University of Tennessee medical student. Project: "Characterization of Genes Regulated by Dietary Lipid In Newborn Swine Small Intestine." Funded by NIH grant R01 HD22551 and University of Tennessee School of Medicine NIH-sponsored Summer Student Research Program (summer, 2004).

**Gabriel Morris**-Vanderbilt University Pre-Med Student. Project: "A Novel CYP2C Gene Family Member Is Expressed in Newborn Swine Small Intestine and Inversely Regulated by Dietary Lipid." Funded by NIH grant R01 HD22551 and CFRC Director's Fund (summer, 2004).

### **Past Grant Support**

National Institute of Arthritis, Metabolism and Digestive Diseases (NIH). Individual National Research Service Award (1 F32 AM0739). Used for studies of intestinal lipoproteins in experimental hepatitis. Awarded for two years beginning July, 1981 and ending June, 1983. Seymour M. Sabesin, M.D. as preceptor.

University of Chicago Block Fund Grant (\$25,000) and Biomedical Research Support Grant (\$5,000). Used for studies of the ontogeny of intestinal lipoprotein secretion and metabolism in the piglet. Awarded for one year beginning July, 1984 and ending June, 1985.

Andrew W. Mellon Foundation Fellow for academic year 1984-1985.

Schwepp Foundation Research Development Fellowship. \$15,000/year for three years starting July 1, 1985. Career development award to be used for studies of the ontogeny of intestinal lipoprotein secretion and metabolism in the piglet.

Amoco Foundation Fellow for academic year 1985-1986. \$30,000 salary and fringe benefit support.

Children's Research Foundation grant entitled "Cyclosporine Absorption in the Rat". Funding for academic year 1986-87. Total costs \$1700.

Children's Research Foundation grant entitled "Correlation of Serum LDL Cholesterol, Apolipoprotein B, and Lipoprotein (a) in a Pediatric Population". Funding for one year starting 10/1/90. Total costs \$2,000. Principal investigator, Susan H. Spalding, M.D. (fellow); Faculty sponsor, Dennis D. Black, M.D.

Children's Research Foundation grant entitled "Lipoprotein (a) Subtypes in an Inner-City Population". Funding for one year starting 10/1/91. Total costs \$1,400. Principal investigator, Susan H. Spalding, M.D. (fellow); Faculty sponsor, Dennis D. Black, M.D.

National Institutes of Health FIRST Award grant, PHS R29 HD 22551, entitled "Intestinal Lipoproteins in the Neonatal Piglet". Funding for five years starting 2/1/87. Total direct costs \$350,000. Principal investigator, Dennis D. Black, M.D. (70% effort).

National Institutes of Health-funded University of Chicago Clinical Nutrition Research Unit Pilot and Feasibility Grant, entitled, "Regulation of Hepatic Lipase Expression by Kupffer Cell Activation". Funding for one year starting 12/1/91. Total costs \$20,000. Principal investigator, Vuong N. Trieu, Ph.D.; Co-Investigator, Dennis D. Black, M.D.

USDA CSRS application entitled, "Modulation of Hepatic Lipase and Apolipoprotein Expression by Liver Non-Parenchymal Cells". Funding for one year starting 7/1/94. Total costs \$19,543. Principal investigator, Dennis D. Black, M.D. (7.5% effort).

Arkansas Children's Hospital Summer Research Program. For 10 weeks of support (\$1800) starting 6/3/96 for Hendrix Undergraduate Student Russell Roberson.

National Institutes of Health ROI application entitled, "Intestinal Lipoproteins in the Neonate". ROI HD22551. Funding for four years starting 2/1/94. Direct costs \$375,955, total costs \$537,616. Principal investigator, Dennis D. Black, M.D. (50% effort).

Competitive renewal of National Institutes of Health application entitled, "Intestinal Lipoproteins in the Neonate". ROI HD22551. Funding for five years starting 4/1/98. Direct costs \$587,929; total costs \$802,523. Principal investigator, Dennis D. Black, M.D. (50% effort).

UT Center of Excellence for Genomics and Bioinformatics Catalyst Grant application entitled, "Discovery and Characterization of Genes Regulated by Dietary Lipid in Developing Swine Small Intestine". \$10,000 starting 7/1/02. Principal investigator, Dennis D. Black, M.D. (5% effort).

### **Active Grant Support**

Competitive renewal of National Institutes of Health application entitled, "Intestinal Lipoproteins in the Neonate". ROI HD22551. Funding for five years starting 7/1/03. Direct costs \$1,125,000; total costs \$1,608,750. Principal investigator, Dennis D. Black, M.D. (30% effort).

National Institutes of Health application entitled, "UAMS Preventive Nutrition Project". 1 K07 HL03955. Funding for five years starting 4/1/00. Direct costs \$737,376; total costs \$796,366. Principal Investigator, Ronald Kahn, M.D. (30% effort). Consultant, Dennis D. Black, M.D. (5% effort).

Children's Foundation of Memphis. CFRC Scientific Director's Fund. 12/1/98-11/30/08. \$250,000 per year for salary support and research support.

### **Pending Grant Support**

National Institutes of Health application entitled, "RR-03-011, Extramural Research Facilities Construction Projects" This proposal is to expand the Children's Foundation Research Center by 25,446 square feet to accommodate the Center's growth in the recruitment of new clinical and basic researchers in several areas. Total costs: \$4,000,000 in matching funds from 9/1/05 to 8/30/10. Principal Investigator: Henry Herrod, M.D., Program Director: Dennis D. Black, M.D.

### **Publications**

#### **Books and Book Chapters**

1. Whittington, PF, Whittington, GL, **Black, DD**, and Orenstein, SR: Digestive system (Chapter 16). Synopsis of Pediatrics. Hughes, JG (ed). 6th edition, C.B. Mosby Co., St. Louis, 1984.
2. **Black, DD**: Lipid transport defect of intestine. Birth Defects Encyclopedia. Buyse, ML (ed). 1st edition, Blackwell Scientific Publications, 1990.
3. Kirschner, BS, and **Black, DD**: The gastrointestinal tract (Chapter 10). Nelson's Essentials of Pediatrics. Behrman, RE (ed). 2nd edition, W. B. Saunders Co., Philadelphia, 1994.
4. Chang, EB, Sitrin, M, and **Black, DD**: Gastrointestinal, Hepatobiliary and Nutritional Physiology. Lippincott-Raven Press, New York, 1996.
5. Kirschner, BS, and **Black, DD**: The gastrointestinal tract (Chapter 10). Nelson's Essentials of Pediatrics. Behrman, RE (ed). 3rd edition, W. B. Saunders Co., Philadelphia, 1998.
6. **Black, DD**: Regulation of intestinal apolipoprotein expression. Intestinal Lipid Metabolism. Mansbach, CM, Tso, P, and Kuksis, A. (eds). Kluwer Academic/Plenum Publishing Corp., New York, 2000.
7. Kirschner, BS, and **Black, DD**: The gastrointestinal tract (Chapter 10). Nelson's Essentials of Pediatrics. Behrman, RE (ed). 4th edition, W. B. Saunders Co., Philadelphia, 2001.

#### **Journal Articles**

1. Whittington, PF, and **Black, DD**: Cholelithiasis in premature infants treated with parenteral nutrition and furosemide. *J Pediatr* 97:647-649, 1980.
2. **Black, DD**, Suttle, EA, Whittington, PF, Whittington, GL, and Korones, SD: The effect of short-term parenteral nutrition in hepatic function in the human neonate: a prospective randomized study demonstrating alteration of hepatic canalicular function. *J Pediatr* 99:445-449, 1981.
3. **Black, DD**, Freeman, MR, and Sabesin, SM: Lipoprotein lipase and hepatic lipase deficiencies associated with impaired chylomicron clearance in D-(+) galactosamine hepatitis. *Metabolism* 31:620-626, 1982.
4. **Black, DD**, Tso, P, Weidman, S, and Sabesin, SM: Intestinal lipoproteins in the rat with D-(+) galactosamine hepatitis. *J Lipid Res* 24:977-992, 1983.
5. Tso, P, Drake, DS, **Black, DD**, and Sabesin, SM: Evidence for separate pathways of chylomicron and very low density lipoprotein assembly and secretion by rat small intestine. *Amer J Physiol* 247:0599-0610, 1984.
6. Williams, GJ, Whittington, PF, Weidman, SW, **Black, DD**, and Sabesin, SM: Correctable plasma lipoprotein abnormalities in infants with choledochal cyst. *Pediatr Res* 19:240-247, 1985.
7. Whittington, PF, **Black, DD**, Struve, W, and Dockter ME: Evidence against an abnormal hepatic microsomal lipid matrix as the primary genetic defect in the jaundiced Gunn rat. *Biochim Biophys Acta* 812:774-778, 1985.
8. **Black, DD**, Haggitt, RC, and Whittington, PF: Gastroduodenal endoscopic-histologic correlation in pediatric patients. *J Pediatr Gastroenterol Nutr* 7:353-358, 1988.
9. Kehrer, BH, Whittington, PF, and **Black, DD**: The effect of roux-en-Y biliary-enterostomy on the absorption of cyclosporine: Relevance to poor drug bioavailability in children after orthotopic liver transplantation. *Transplant Proc* 20:523-527, 1988.
10. **Black, DD**, and Davidson, NO: Intestinal apolipoprotein synthesis and secretion in the suckling pig. *J Lipid Res* 30:207-218, 1989.
11. Whittington, PF, Kehrer, BH, Whittington, SH, Shneider, B, and **Black, DD**: The effect of biliary enteroenterostomy on the pharmacokinetics of enterally administered cyclosporine in the rat. *Hepatology* 9:393-397, 1989.
12. Ussery, XT, Henar, EL, **Black, DD**, Berger, S, and Whittington, PF: Acute liver injury after protracted seizures. *J Pediatr Gastroenterol Nutr* 9:421-425, 1989.

13. Hirsch, BZ, Whittington, PF, Kirschner, BS, **Black, DO**, Bostwick, DG, and Yousefzadeh, DK: Isolated granulomatous gastritis in an adolescent. *Dig Dis Sci* 34:292-296, 1989
14. **Black, OD**, Rohwer-Nutter, PL, and Davidson, NO: Intestinal apolipoprotein A-IV gene expression in the piglet. *J Lipid Res* 31:497-505, 1990.
15. **Black, DO**, Haggitt, RC, Orenstem, SR, and Whittington, PF: Esophagitis in infants: Morphometric histological diagnosis and correlation with measures of gastroesophageal reflux. *Gastroenterology* 98:1408-1414, 1990.
16. Woodle, ES, Thistlethwaite, JR, Emond, JC, Whittington, PF, **Black, DD**, Aran, PP, Baker, AL, Stuart, FP, and Broelsch, CE: OKT3 therapy for hepatic allograft rejection: comparison of results in adults and children. *Transplant Proc* 22:1765-1766, 1990.
17. Thistlethwaite, JR, Emond, JC, Woodle, ES, Vogelbach, P, **Black, DD**, Whittington, PF, and Broelsch, CE: Increased utilization of organ donors: transplantation of two recipients from single donor livers. *Transplant Proc* 22:1485-1486, 1990.
18. Whittington, PF, Emond, JC, **Black, DD**, Whittington, SH, Boone, P, Smith, C, Thistlethwaite, and Broelsch, CE: Indications for liver transplantation in pediatrics. *Clin Transplant* 5:155-160, 1991.
19. Teng, B-B, **Black, DD**, and Davidson, NO: Apolipoprotein B messenger RNA editing is developmentally regulated in pig small intestine: nucleotide comparison of apolipoprotein B editing regions in five species. *Biochem Biophys Res Commun* 173:74-80, 1990.
20. Hayashi, H, Nutting, DF, Fujimoto, K, Cardelli, JA, **Black, DD**, and Tso, P: Transport of lipid and apolipoproteins A-I and A-IV in intestinal lymph of the rat. *J Lipid Res* 31:1613-1625, 1990.
21. **Black, DD**, and Rohwer-Nutter, PL: Intestinal apolipoprotein synthesis in the newborn pig. *Pediatr Res* 29:32-38, 1991.
22. **Black, OD**, Hay, RV, Rohwer-Nutter, PL, Ellinas, H, Stephens, JK, Sherman, H, Teng, B-B, Whittington, PF, and Davidson, NO: Intestinal and hepatic apolipoprotein B gene expression in abetalipoproteinemia. *Gastroenterology* 101:520-528, 1991.
23. Thistlethwaite, JR, Emond, JC, Heffron, TG, Whittington, PF, **Black, DD**, and Broelsch, CE: Innovative use of organs for liver transplantation. *Transplant Proc* 23:2147-2151, 1991.
24. Woodle, ES, Thistlethwaite, JR, Emond, JC, Whittington, PF, **Black, OD**, Aran, PP, Baker, AL, Stuart, FP, and Broelsch, CE: OKT3 therapy for hepatic allograft rejection. Differential response in adults and children. *Transplantation* 51:1207-1212, 1991.

25. **Black, DD:** Effect of chylomicron secretory blockade on intestinal apolipoprotein synthesis in the piglet. *Biochem J* 283:81-85, 1992.
26. **Black, DD,** and Ellinas, H: Apolipoprotein synthesis in newborn piglet intestinal explants. *Pediatr Res* 32:553-558, 1992.
27. Trieu, VN, Hasler-Rapacz, J, Rapacz, J, and **Black, DD:** Sequences and expression of the porcine apolipoprotein A-I and C-III mRNAs. *Gene* 123:173-179, 1993.
28. Ernond JC, Heffron TG, Kortz EO, Gonzalez-Vallina R, Contis JC, **Black DD,** and Whittington PF. Improved results of living related liver transplantation (LRT) with routine application in a pediatric program. *Transplantation* 55:835-840, 1993.
29. Magilavy, DB, Zhan, R, and **Black, DD:** Modulation of murine hepatic lipase activity by exogenous and endogenous Kupffer cell activation. *Biochem J* 292:249-252, 1993.
30. Gonzalez-Vallina, R, Alonso, EM, **Black, DD,** and Whittington, PF: Outpatient percutaneous liver biopsy in children. *J Pediatr Gastroenterol Nutr* 17:370-375, 1993.
31. Trieu, VN, Patel, B, Zhan, R, and **Black, DD:** Sequence of the porcine apo A-I gene. *Gene* 134:267-270, 1993.
32. **Black, DD:** Intestinal lipoprotein metabolism. *J Pediatr Gastroenterol Nutr* 20:125-147, 1995.
33. Brady, L, Magilavy, DB, and **Black, DD:** Portal vein thrombosis associated with antiphospholipid antibodies in a child. *J Pediatr Gastroenterol Nutr* 23:470-473, 1996.
34. **Black, DD,** Wang, H, Hunter, F, and Zhan, R: Intestinal expression of apolipoprotein A-IV and C-III is coordinately regulated by dietary lipid in newborn swine. *Biochem Biophys Res Commun* 221:619-624, 1996.
35. Wang, H, Zhan, R, Hunter, F, Du, J, and **Black, DD:** Effect of acute feeding of diets of varying fatty acid composition on intestinal apolipoprotein expression in the newborn swine. *Pediatr Res* 39:1078-1084, 1996.
36. Gonzalez-Vallina, R, Wang, H, Zhan, R, Berschneider, 1<sup>TM</sup>, Lee, RM, Davidson, NO, and **Black, DD:** Lipoprotein and apolipoprotein secretion by a newborn piglet intestinal cell line (IPEC-1). *Am J Physiol* 271:G249-G259, 1996.
37. Wang, H, Berschneider, 1<sup>TM</sup>, Du, J, and **Black, DD:** Apolipoprotein secretion and lipid synthesis: regulation by fatty acids in newborn swine intestinal epithelial cells. *Am J Physiol* 272:G935-G942, 1997.



38. Wang, H, Hunter, F, and **Black, DD**: Effect of chronic feeding of diets of varying fatty acid composition on apolipoprotein expression in newborn swine. *Am J Physiol* 275:0645-0651, 1998.
39. Wang, H, Roberson, R, Du, J, Eshun, J, Berschneider, HM, and **Black, DD**: Regulation of apolipoprotein secretion and lipid synthesis by biliary lipids in newborn swine intestinal epithelial cells. *Am J Physiol* 276:0353-0362, 1999.
40. Orewal, H, Amiri, H, Vera, S, Stratta, R, Whittington, O, Lazar, L, **Black, D**, Powell, S, Ammons, J, and Oaber, AO: In-situ split-liver transplantation. *Tenn Medicine* 92:411-414, 1999.
41. Wang, H, Lu, S, Du, J, Yao, Y, Berschneider, HM, and **Black, DD**: Regulation of apolipoprotein secretion by long-chain polyunsaturated fatty acids in newborn swine enterocytes. *Am J Physiol* 280:01137-01144, 2001.
42. Wang, H, Du, J, Lu, S, Yao, Y, Hunter, F, and **Black, DD**: Regulation of intestinal apolipoprotein A-I synthesis by dietary phosphatidylcholine in newborn swine. *Lipids* 36:683-687, 2001.
43. Eshun, JK., **Black, DD**, Casteel, HB, Horn, H, Beavers-May, T, Jetton, CA, and Parharn, DM: Comparison of immunohistochemistry and silver stain for the diagnosis of pediatric *Helicobacter pylori* infection in urease-negative gastric biopsies. *Pediatr Dev Pathol* 3:82-88, 2001.
44. Koh, JL, **Black, DD**, Leatherman, II, Harrison, RD, and Schmitz, ML: Experience with an anesthesiologist interventional model for endoscopy in a pediatric hospital. *J Pediatr Gastroenterol Nutr* 33:314-318, 2001.
45. Yao, Y, Eshun, JK, Lu, S, Berschneider, HM, and **Black, DD**: Regulation of triacylglycerol and phospholipid trafficking by fatty acids in newborn swine intestinal epithelial cells. *Am J Physiol* 282:G817-G824, 2002.
46. Lu, S, Huffman, M, Yao, Y, Mansbach, CM, Cheng, X, Meng, S, and **Black, DD**: Regulation of microsomal triglyceride transfer protein expression in developing swine. *JLipidRes* 43:1303-1311, 2002.
47. Lu, S, Yao, Y, Meng, S, Cheng, X, and **Black, DD**: Overexpression of apolipoprotein A-IV enhances lipid transport in newborn swine intestinal epithelial cells. *J Biol Chem* 277:31929-31937, 2002.
48. Lu, S, Wang, H, Yao, Y, Meng, S, Cheng, X, and **Black, DD**: Regulation of apolipoprotein A-IV transcription by lipid in newborn swine is associated with a promoter DNA-binding protein. *Am J Physiol* 284:0248-0254, 2003.

49. **Black, DD:** Chronic cholestasis and dyslipidemia: What's the cardiovascular risk? *J Pediatr* 146:306-307, 2005.
50. Lu, S, Yao, Y, Cheng, X, Mitchell, S, Meng, S, Mahan, J, Frase, S, Mansbach, CM, Weinberg, RB, and **Black, DD:** Overexpression of apolipoprotein A-IV enhances enterocyte lipid secretion in IPEC-1 cells by increasing chylomicron size. *J Biol Chem* Revised and ready for re-submission.
51. Lu, S, Yao, Y, Leng, S, Starling, J, Hill, T, Morris, G, Meng, S, and **Black, DD:** A novel CYP2C gene family member is expressed in newborn swine small intestine and inversely regulated by dietary lipid. Being submitted to *Am J Physiol*.
52. Lu, S, Yao, Y, Meng, S, Ying, C, and **Black, DD:** Regions of the apolipoprotein C-III/A-IV intergenic region involved in transcriptional activation by lipid in newborn swine intestinal epithelial cells. In preparation.
53. Lu, S, Yao, Y, Meng, S, Ying, C, and **Black, DD:** Sequence and developmental expression of swine HNF-4. In preparation.

### Abstracts Presented

1. **Black, DD:** Hepatic-triglyceride lipase and lipoprotein lipase deficiencies associated with defective chylomicron clearance in D-(+) galactosamine-induced liver injury. *Gastroenterology* 74:1171, 1978. Presented at American Gastroenterological Association Meeting, Las Vegas, Nevada, May 1978. Winner of Sigma Xi Student Research Award.
2. **Black, DD,** Tso, P, Weidman, SS, and Sabesin, SM: Intestinal lipoproteins in the rat with D-(+)-galactosamine hepatitis. *Gastroenterology* 82:1019, 1982. Presented at the American Gastroenterological Association Meeting, Chicago, Illinois, May 1982.
3. Whittington, PF, **Black, DD,** Struve, W, and Dockter, ME: Evidence against an abnormal matrix of hepatic microsomal membranes from Gunn rats. *Gastroenterology*, 84:1350, 1983. Presented at the American Gastroenterological Association Meeting, Washington, DC, May 1983.
4. **Black, DD,** King, KK, and Whittington, PF: Metabolism of very low density lipoprotein (VLDL) by human placenta in vitro. *Pediatr Res*, 18:355a, 1984. Presented at the Society for Pediatric Research Meeting, San Francisco, California, May 1984.
5. **Black, DD,** and Davidson, NO: Intestinal apolipoprotein (apoLp) synthesis in the suckling pig. *Pediatr Res* 23:298A, 1988. Presented at the Society for Pediatric Research Meeting, Washington, D.C., May, 1988.

6. **Black, DD** and Rohwer, PL: Intestina! apolipoprotein synthesis in the newborn piglet: Effect of dietary triglyceride absorption. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, November, 1988.
7. **Black, DD**, Rohwer, PL, and Davidson, NO: Intestina! apo A-IV gene expression in the newborn pig. Presented at the annual meeting of the Midwest Gut Club, Chicago, IL, March, 1989.
8. **Black, DD**, Rohwer, PL, and Davidson, NO: Intestina! apo A-IV gene expression in the newborn pig. *Pediatr Res* 25:109A, 1989. Presented at the Society for Pediatric Research Meeting, Washington, D.C., May, 1989.
9. **Black, DD**, Rohwer-Nutter, PL, and Davidson, NO: Intestina! apolipoprotein synthesis in the newborn piglet. *Arteriosclerosis* 9:704a, 1989. Presented at the annual American Heart Association Scientific Sessions in New Orleans, LA, November, 1989.
10. **Black, DD**, Davidson, NO, Ellinas, H, Hay, RV, Rohwer-Nutter, P, and Sherman, H: Studies of liver and intestine in a patient with abetalipoproteinemia undergoing liver transplantation. *Pediatr Res* 27:101A, 1990. Presented at the Society for Pediatric Research Meeting, Anaheim, CA, May, 1990.
11. Magilavy, DB, Rohwer-Nutter, PL, and **Black, DD**: Modulation of murine hepatic lipase activity by exogenous and endogenous Kupffer cell activation. *Pediatr Res* 27:110A, 1990. Presented at the Society for Pediatric Research Meeting, Anaheim, CA, May, 1990.
12. **Black, DD**, Rohwer-Nutter, PL, and Davidson, NO: Intestina! apolipoprotein synthesis in the newborn piglet. Presented at the FASEB Summer Conference on Intestina! Lipid Absorption, Metabolism, and Transport, Saxtons River, VT, August, 1990.
13. **Black, DD**, Rohwer-Nutter, PL, Hay, RV, Ellinas, H, Sherman, H, Teng, B, Stephens, J, and Davidson, NO: Studies of liver and intestine in a patient with abetalipoproteinemia undergoing liver transplantation. Presented at the FASEB Summer Conference on Intestina! Lipid Absorption, Metabolism, and Transport, Saxtons River, VT, August, 1990.
14. **Black, DD**, and Rohwer-Nutter, PL: Effect of chylomicron secretory blockade on intestinal apolipoprotein synthesis in the piglet. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, November, 1990.
15. Rosenson, RS, and **Black, DD**: Influence of lipoprotein-X on plasma viscosity in cholestatic disorders of childhood. Presented at the annual meeting of the Midwest Section of the American Federation for Clinical Research, Chicago, IL, October, 1990.

16. **Black, DD**, and Ellinas, H: Apolipoprotein A-I and A-IV synthesis in piglet jejunal explants. *Pediatr Res* 29:100A, 1991. Presented at the Society for Pediatric Research Meeting, New Orleans, LA, April, 1991.
17. **Black, DD**, and Ellinas, H: Apolipoprotein synthesis in newborn piglet small intestinal explants. *Gastroenterology* 100:A515, 1991. Presented at the American Gastroenterological Association Meeting, New Orleans, LA, May, 1991.
18. Spacting, SH, Odeh, NO, McConathy, WJ, Bowers, MI, Simpson, **NM**, Trieu, VN, and **Black, DD**: Lipoprotein (a) and cholesterol screening in an inner-city black population. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, November, 1991.
19. Trieu, VN, Penn, D, and **Black, DD**: Hepatic lipase expression in cultured newborn piglet hepatocytes. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, November, 1991.
20. Trieu, VN, Penn, D, Hay, RV, and **Black, DD**: Sequence and developmental expression of porcine intestinal and hepatic apolipoprotein A-I mRNA. *Gastroenterology* 102:A, 1992. Presented at the American Gastroenterological Association Meeting, San Francisco, CA, May, 1992.
21. Gonzalez-Vallina, R, Alonso, EM, **Black, DD**, and Whittington, PF: Outpatient percutaneous liver biopsy in children. *Pediatr Res* 31:107A, 1992. Presented at the annual meeting of the Society for Pediatric Research, Baltimore, MD, May, 1992.
22. Penn, D, Cochrane, A, Trieu, VN, **Black, DD**, Schnidt-Sommerfeld, E: Effect of medium chain triglyceride administration on carnitine metabolism in the anesthetized piglet and cultured kidney epithelial cells. *Pediatr Res* 32:627, 1992. Presented at the annual meeting of the European Society for Pediatric Research, Uppsala, Sweden, June, 1992.
23. Zhan, R, Magilavy, D, and **Black, DD**: Posttranscriptional inhibition of murine hepatic lipase activity by *in vivo* Kupffer cell activation. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, October, 1992.
24. Trieu, VN, Hasler-Rapacz, J, Rapacz, J, and **Black, DD**: Sequence and expression of porcine apo C-III messenger RNA. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, October, 1992.
25. Alonso, EM, **Black, DD**, Smith, CD, Beone, P, and Whittington, PF: Incidence of rejection in pediatric patients following living-related orthotopic liver transplantation. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, October, 1992.

26. Alonso, EM, Gonzalez-Vallina, R, **Black, DD**, Glynn, LA, Kelly, S, and Whittington, PF- Pulmonary complications following orthotopic liver transplantation in pediatric patients. Presented at the annual meeting of the North American Society for Pediatric Gastroenterology and Nutrition, Chicago, IL, October, 1992.
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