

Gavin E. Arteel, PhD

Profile:

Education/Training

B.S., University of Wisconsin-Madison, Pharmacology and Toxicology, 1993

Ph.D., University of North Carolina-Chapel Hill, Toxicology, 1997

Post-Doc, University of Duesseldorf, Germany, Biochemistry, 1998-1999

Post-Doc, University of North Carolina-Chapel Hill, Toxicology, 2000-2001

Research and Professional Experience

1991-1993

Undergraduate independent researcher,
UW-Madison

1993-1997

Graduate research assistant,
University of NC-Chapel Hill

1998-2000

Alexander von Humboldt Stiftung post-doctoral fellow,
Düsseldorf, Germany

2000-2001

Bowles Center for Alcohol Studies,
post-doctoral research associate

2001-2002

Asst. Professor, Depts of Pharmacology and Medicine,
University of NC-Chapel Hill

2002-present

Asst. Professor, Dept of Pharmacology and Toxicology at The James Graham Brown Cancer Center,
University of Louisville

2000-present

Member,
Oxygen Club of California

2001-present

Member,
Research Society on Alcoholism

2001-present

Member,
International Society for Biomedical Research on Alcoholism

2002-present

Member,
Oxygen Society

2002-present

Member,
International Society for Free Radical Research

2002-present

Member and Officer,
Ohio Valley Society of Toxicology

2003-present

Member,
Society of Toxicology

2003-present

Member,
American Association for the Study of Liver Diseases



Selected Honors and Professional Honors

1992
NSF-Research experiences for undergraduates fellowship, UW-Madison

1993
Hilldale undergraduate research fellowship, UW-Madison

1993
Graduation with Distinction, UW-Madison, School of Pharmacy

1995
Leon Goldberg Memorial Graduate Student Travel Award, UNC-Chapel Hill

1995
Radiation Research Society Graduate Student Travel Award

1996
George L. O'Donoghue Predoctoral Fellowship, American Liver Foundation

1998
Carl C. Smith Mechanisms specialty section award - 2nd place

1998
Selected to appear in 'Outstanding Young Men of America'

2001
Presidential plenary lecture, AASLD annual meeting, Dallas TX

2002
Who's who in biomedical research

2002
President's choice award, AASLD annual meeting, Boston, MS

2002
Young Investigator award, RSA annual meeting, Vancouver, Canada

Contact Information:

Coming soon.

Current Research Interests:

Coming soon.

Representative Publications:

Jacob C, **Arteel GE**, Kanda T, Engman L, Sies H. Water-soluble organotellurium compounds: catalytic protection against peroxynitrite and release of zinc from metallothionein. *Chem Res Toxicol* 13:3-9, 2000.

Arteel GE, Franken S, Kappler J, Sies H. Binding of selenoprotein P to heparin: characterization with surface plasmon resonance. *Biol Chem* 381:265-268, 2000.

Arteel GE, Schröder P, Sies H. Reactions of peroxynitrite with cocoa procyanidin oligomers. *J Nutr* 130:2100S-2104S, 2000.

Wheeler MD, Kono H, Rusyn I, **Arteel GE**, McCarty D, Samulski RJ, Thurman RG. Chronic ethanol increases adeno-associated viral transgene expression in rat liver via oxidant and NF-kappaB dependent mechanisms. *Hepatology* 32:1050-1059, 2000.

Kono H, **Arteel GE**, Rusyn I, Sies H, Thurman RG. Ebselen prevents early alcohol-induced liver injury in rats. *Free Radic Biol Med* 30:403-411, 2001.

Uesugi T, Froh M, **Arteel GE**, Bradford BU, Thurman RG. Toll-like receptor 4 is involved in the mechanism of early alcohol-induced liver injury in mice. *Hepatology* 34:101-108, 2001.

Uesugi T, Froh M, **Arteel GE**, Bradford BU, Gäbele E, Wheeler MD, Thurman RG. Delivery of IκB super-repressor gene with adenovirus reduces early alcohol-induced liver injury in rats. *Hepatology* 34:1149-1157, 2001.

Uesugi T, Froh M, **Arteel GE**, Bradford BU, Wheeler MD, Gäbele E, Isayama F, Thurman RG. Role of lipopolysaccharide binding protein in early alcohol-induced liver injury in mice. *J. Immunol.* 168:2963-2969, 2002.

Savvides SS, Scheiwein M, Bohme CC, **Arteel GE**, Karplus PA, Becker K, Schirmer RH. Bisnitro-glutathione reductase. Crystal structure of a peroxynitrite-inactivated antioxidant protein. *J Biol Chem* 277:2779-2784, 2002.

McKim SE, Konno A, Gäbele E, Uesugi T, Froh M, Sies H, Thurman RG, **Arteel GE**. Cocoa extract protects against early alcohol-

induced liver injury in the rat. *Arch Biochem Biophys* 406:40-46, 2002.

Lehnert ML, **Arteel GE**, Smutney OM, Conzelmann LO, Zhong Z, Thurman RG, Lemasters JJ. Dependence of liver injury after hemorrhage/resuscitation in mice on NADPH oxidase-derived superoxide. *Shock* 19:345-351, 2003.

Arteel GE. Oxidants and antioxidants in chronic alcoholic liver disease. *Gastroenterology* 124:778-790, 2003.

Arteel G, Marsano L, Mendez C, Bentley F, McClain CJ. Advances in alcoholic liver disease. *Best Pract. Res. Clin. Gastroenterol* 17:625-647, 2003.

McKim SE, Uesugi T, Raleigh JA, McClain CJ, **Arteel GE**. Chronic intragastric alcohol exposure causes hypoxia and oxidative stress in the rat pancreas. *Arch Biochem Biophys* 417:34-43, 2003

McKim SE, Gäbele E, Isayama F, Lamber JC, Tucker LM, Wheeler MD, Connor HD, Mason RP, Doll MA, Hein DW and **Arteel GE**. Inducible nitric oxide synthase is required in alcohol-induced liver injury: studies with knockout mice. *Gastroenterology* 125:1834-1844, 2003.

Isayama F, Froh M, Bradford BU, McKim SE, Kadiiska MB, Connor HD, Mason RP, Koop DR, Wheeler MD, **Arteel GE**. The CYP inhibitor 1-aminobenzotriazole does not prevent oxidative stress associated with alcohol-induced liver injury in rats and mice. *Free Radic Biol Med* 35(12):1568-1581, 2003.

Tamasi V, Jeffries JM, **Arteel GE**, Falkner KC. Ebselen augments its peroxidase activity by inducing nrf-2-dependent transcription. *Arch Biochem Biophys* 431(2):161-168, 2004.

Deaciuc IV, Arteel GE, Peng X, Hill DB, McClain CJ. Gene expression in the liver of rats fed alcohol by means of intragastric infusion. *Alcohol* 33(1):17-30, 2004.

Guo L, Richardson KS, Tucker LM, Doll MA, Hein DW, **Arteel GE**. Role of the renin-angiotensin system in hepatic ischemia reperfusion injury in rats. *Hepatology* 40(3):583-589, 2004.

Uesugi T, Froh M, Gabele E, Isayama F, Bradford BU, Ikai I, Yamaoka Y, **Arteel GE**. Contribution of angiotensin II to alcohol-induced pancreatic fibrosis in rats. *J Pharmacol Exp Ther* 311(3):921-8, 2004.

Arteel GE. "HOPE" for the liver? Mechanistic insight into the role of the renin-angiotensin system in hepatic fibrosis. *Hepatology* 40(1):263-5, 2004.

Research Projects:

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