

BIOTECHNOLOGY PROJECTS OF MARSHALL UNIVERSITY

INVESTIGATORS

ENRONMENTAL/FORENSICS

Bacterial indicators of water quality & biodegradation/bioremediation

Dr. Charles Somerville
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<http://webpages.marshall.edu/~somervil/>
<http://www.marshall.edu/biotechnology/present/USACE.htm>

Genotypic bacterial source tracking fecal pollution in natural waterways

Dr. Pamela Staton
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<http://www.marshall.edu/biotechnology/present/pstaton.htm>

Aquatic biomonitoring from communities to genetics

Dr. Tom Jones
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Evolution and genetics of toxic arthropods

Dr. Victor Fet
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<http://www.science.marshall.edu/fet/euscorp/ius/fet.htm>

Thimerosal induced neurotoxicity

Dr. Kelley Kinningham
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Mechanisms of nephrotoxicity & bioactivation of chemicals to toxic species

Dr. Gary O. Rankin
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Hepatic and renal toxicity of drugs and pesticides

Dr. Monica Valentovic
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INVESTIGATORS

MEDICAL

Genetic basis of hypercholesterolemia

Dr. Donald Primerano
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Obesity-associated hypertension

Dr. Elsa I. Mangiarua
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Obesity-associated hypertension

Dr. William D. McCumbee
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SNPs and cardiovascular disease

Dr. Elizabeth Murray
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<http://www.marshall.edu/senate/achieve/profile.asp?ID=237>

Mechanisms of mechanical signal transduction in skeletal and smooth muscle

Dr. Eric C. Blough
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Molecular basis of mammalian fertilization

Dr. Guo-Zhang Zhu
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Control of posture and walking in animals/

legged robots

Dr. Sasha Zill
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<http://medix.marshall.edu/~zill/Projects.htm>

Vitamin A (retinoids), protein kinase C, resveratrol, melanocytes, and melanoma

Dr. Richard M. Niles
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Progestins and breast cancer

Dr. Michael Moore
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Transcription factors in cancer

Dr. Maiyon Park
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Chromatin structure of eukaryotic promoters

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The role of β -catenin in pituitary tumor

growth and melanoma

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SKI and SNO expression in male germ cells and testicular tumors

Dr. Laura L. Richardson
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Molecular mechanisms of smooth muscle contraction and hypertension

Dr. Gary Wright
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Epithelial cell polarity

Dr. Simon Collier
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Non-mast cell histamine in blood vessels

Dr. Carl Gruetter
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Genetic basis of biofilm formation and bacterial lung infection in cystic fibrosis

Dr. Hongwei Yu
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Neural basis for learning and memory

Dr. Lawrence M. Grover
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Production of anti-cancer alkaloids from plant cells in a microgravity bioreactor

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Plant responses to environmental stress conditions

Dr. Marcia Harrison
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Micro and nano scale imaging studies

Dr. Michael Norton
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Carbon nanotubes and nanoporous silicon based devices and sensors

Dr. Ashok K. Vaseashta
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<http://www.marshall.edu/nato-asi>

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INVESTIGATORS

Epigenetics and cancer

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<http://musom.marshall.edu/microbiology/sollars/research-interest.htm>

Structure/functional relationships of calcium binding/signaling proteins

Dr. Jaroslava Miksovska

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Mitochondria and nitric oxide in oxidative stress and cell homeostasis

Dr. Pedram Ghafourifar

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