

John Parker Berry

Contact Information

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Education

NIH-NIEHS Postdoctoral Trainee, Toxicology/Chemistry	University of Miami Coral Gables, FL	February 2000-2002
NIH-NCI Postdoctoral Trainee, Environmental Toxicology	Cornell University Ithaca, NY	May 1999-February 2000
Ph. D., Phytochemistry	Cornell University Ithaca, NY	August 1993-August 1998
B. Sc., Biology	University of Michigan Ann Arbor, MI	August 1989-May 1993

Employment/Positions

Assistant Professor	Department of Chemistry and Biochemistry Florida International University Miami, FL	August 2006 - present
Assistant Scientist	Marine Biology and Fisheries/RSMAS University of Miami, Miami, FL	Feb. 2002 – Aug. 2006
Adjunct Professor (Chemistry)	Department of Physical Sciences Barry University, Miami, FL	Jan. 2006 – June 2006
Center Investigator	NIEHS Marine and Freshwater Biomedical Sciences Center (MFBS), RSMAS, University of Miami, Miami, FL	May 2004 - 2007
Postdoctoral Fellow (NIH-NIEHS)	MFBS/Department of Chemistry University of Miami, Coral Gables, FL	February 2000 - 2002
Postdoctoral Fellow (NIH-NCI)	Environmental Toxicology Cornell University, Ithaca, NY	August 1998-February 2000
Teaching Assistant	Division of Biological Sciences Cornell University, Ithaca, NY	August 1993-May 1998
Research Assistant	Department of Plant Biology, Cornell University, Ithaca, NY	January 1997-1998

Publications

Research Papers

- An, T., Krishnaswamy, T., Kumar, S., Wang, M., Liu, L., Lay, Jr., J. O., Liyanage, R., **Berry, J.**, Gantar, M., Marks, V., Gawley, R. E. and Rein, K. S. (2007) Structures of the Pahayokolides A and B, Cyclic Peptides from a *Lyngbya* sp. *J. Nat. Prod.*, 70: 730-735.
- Berry, John P.**, Gibbs, P. D. L., Gantar, M. and Schmale, M. C. (2007) Identification of developmental toxins from marine and freshwater algae using the zebrafish embryo as a model of vertebrate development. *Comp. Biochem. Physiol. C Toxicol. Pharmacol.*, 145 (1): 61-72.
- Aregullin, M., **Berry, J. P.** and Cadena, L. (2006). Antioxidant activity and inhibition of cancer cells by the herbal product, ARCOMIG. *J. Med. Sci.*, 6 (2): 229-234.
- Berry, John P.**, Gantar, M., Gawley, R. E. and Rein, K. S. (2005) Isolation of bioactive metabolites from a *Lyngbya* species isolated from periphyton of the Florida Everglades. Pp. 192-194. In: K.A. Steidinger, J.H. Landsberg, C.R. Tomas and G.A. Vargo (eds.) *Harmful Algae*, 2002. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and Intergovernmental Oceanographic Commission of UNESCO.
- Berry, John P.**, Gantar, M., Gawley, R. E., Wang, M. and Rein, K. S. (2004) Pharmacology and toxicology of pahayokolide A, a bioactive metabolite from a freshwater species of *Lyngbya* isolated from the Florida Everglades. *Comp. Biochem. Physiol.*, 139: 231-238.
- Mayer, G. D., **Berry, J. P.**, Patenaude, C. A. and Walsh, P. J. (2004) Effect of lipopolysaccharides from *Microcystis* and *Lyngbya* on metal toxicity in *Fundulus heteroclitus*. *Bull. MDIBL* 43: 143-44.
- Laux, M. T., Aregullin, M. A., **Berry, J. P.**, Flanders, J. A. and Rodriguez, E. (2004) Identification of a p53 dependent pathway in the induction of apoptosis of human breast cancer cells by the natural product, resveratrol. *J. Alt. Comp. Med.* 10 (2): 235-40.
- Berry, John P.**, Reece, K. S., Rein, K. S., Baden, D. G., Haas, L. W., Ribeiro, W., Shields, J. D., Snyder, R. V., Vogelbein, W. K. and Gawley, R. E. (2002) Are *Pfiesteria* species toxicogenic? Evidence against production of ichthyotoxins by *Pfiesteria shumwayae*. *Proc Nat Acad Sci* 99 (17): 10970-10975.
- Kohen, E., Hirschberg, J. G., Örneke, C., **Berry, J. P.**, Monti, M. and Schachtschabel, D. O. (2002) Fourier interferometry/spectral imaging of response to metabolic challenges in perinuclear mitochondria of normal and malignant cells. *Proc Eur Mol Biol Soc*, published on CD-ROM (print copies available upon request)
- Laux, M. T., Aregullin, M., Golod, O., **Berry, J. P.**, Flanders, J. A. and Rodriguez, E. (2002) Induction of apoptosis in human breast cancer cells by extracted constituents from *Fluorensia cernua* (Asteraceae). *Rev. Latinoam. Quim.* 30 (1): 5-11.
- Berry, John P.**, Laux, M., and Rodriguez, E. (2002) Inhibition of protein tyrosine kinase and induction of apoptosis by oxindole alkaloids from *Uncaria tomentosa*. *J Med Sci.* 2(3): 110-114.
- Kohen, E., Hirschberg, J. G., Ornek, C., Monti, M. and **Berry, J. P.** (2002) Fluorescence imaging of mitochondrial localization and metabolism in malignant cells. In *Proc. Optical Soc. Am. Biomedical Topical Meeting: Biomedical Optical Spectroscopy and Diagnostics*, pp. 562-564.
- Hirschberg, J. S., Kohen, E., Kohen, C., Ornek, C. and **Berry, J. P.** (2001) Fourier interferometry with special fluorescence imaging for the study of mitochondrial distribution and function in living normal/malignant cells. *Prog. Biomed. Opt. Imag.* 2 (34): 165-182.

Reviews

- Laux, M. T., **Berry, John P.**, Flanders, J. A. and Rodriguez, E. (2002) Recent advances in the study of cancer and phytomedicine: A review. *Rev. Latinoam. Quim.* 30 (3): 103-127.
- Laux, Maria T., Ketzis, Jennifer and **Berry, John** (2002) Plant natural products as source of anti-cancer drugs, a review. *Rev Latinoam Quim* 30 (1): 29-36.
- Berry, John P.**, McFerren, Marcus A., and Rodriguez, Eloy (1995) Zoopharmacognosy: A "biorational" strategy for phytochemical prospecting. In *Phytochemicals and Health*, D.L. Gustine and H.E. Flores, eds. pp. 165-178.

Current Grants

Great Lakes Fisheries Commission (GLFC): *Bioconcentration of Microcystin in the Bay of Quinte Food-Web*, Role: Co-PI with S. Guildford (University of Waterloo), \$75,232 total/2 years, January 2006 – December 2007.

NIEHS Exploratory/Developmental Research Grant Award (R21): *Zebrafish Embryos as a Model for Cyanobacterial Toxins*, \$275,000 direct cost/2 years, Role: PI. August 16, 2006-August 15, 2008

Past Grants

NIEHS Advanced Research Cooperation in Environmental Health (ARCH) Program: *New Toxins from Algae and Cyanobacteria*, Role: Co-PI with K. Rein (FIU), \$245,900 direct cost, September 2001-August 2006.

NIEHS ARCH Pilot Project Program: *Developmental Toxins from Cyanobacteria*, Role: Co-Investigator with PI's M. Gantar (FIU)/M. Schmale (UM), \$75,000 direct cost/year, September 2003-February 2006.

Other Academic Honors

Center Investigator, NIH/NIEHS Marine and Freshwater Biomedical Sciences Center	2004
NIH/NIEHS National Research Service Award	2000, 2001
NIH/NCI National Research Service Award	1999
Mario Einuadi International Studies Center Travel Grant	1997
Cornell Institute for International Food and Agricultural Development Travel Grant	1997
Cornell University Graduate Summer Fellowship	1994, 1995, 1996