

Anna Hull

Associate Professor of Biology

PhD Molecular Biology - Boston University



Dr. Hull teaches Genetics, Molecular Biology, Botany and the plant section of an introductory Biology course for majors. Her research interests are in the areas of plant-people interactions. Current funding supports metabolomics and genetics research in the field of nutrition and cancer susceptibility in minority populations.

Specifically, she investigates the interaction between genetic components and cruciferous vegetable consumption and their combined modulation of cancer risk. In collaboration with the Chemistry Department at Lincoln University, she leads a population-based research project that aims to understand the combined contribution of genetics and environmental modulators such as smoking and cruciferous vegetable consumption on cancer risk in minority and majority populations.

Dr. Hull supports several undergraduate researchers that are encouraged to design their own research projects within the areas of plant-people interaction to examine both behavioral and biological aspects of such interactions. Her passion for fostering scientific curiosity among young people is, beyond the walls of the classroom and research laboratory, fed by volunteering in the local school district and serving as the Principal Investigator on collaborative grants that fund summer internship positions for Lincoln University students at local research centers. In addition, she leads a campus gardening project and serves on the board of the Friends of the State Line Serpentine Barrens, a local friends group that work to conserve native Serpentine Barren grasslands.

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Recent Publications

Modesto, J.L., Hull, A., Angstadt, A.Y., Berg, A., Gallagher, C.J., Lazarus, P., Muscat, J.E., 2014. NNK reduction pathway gene polymorphisms and risk of lung cancer, *Molecular Carcinogenesis*, Online June 29, 2014, DOI: 10.1002/mc.22187

Mett, V., Chichester, J. A., Stewart, M. L., Reifsnnyder, C. J., Hull, A. K., Albrecht, M. T., Goldman, S., Baillie, L. W. J., Yusibov, V. 2011. A Non-Glycosylated Plant-Produced Human Monoclonal Antibody Against Anthrax Protective Antigen Protects Mice and Non-Human Primates from B. anthracis spore challenge, *Human Vaccines and Immunotherapeutics*, Jan-Feb: 7 Suppl: 183-90

Hull, A. K., Yusibov, V. Mett, V. 2005. Inducible expression in plants by virus-mediated transgene activation. *Transgenic Research*, 14, 407-416.

Ljung K., Hull A.K., Celenza J., Yamada M., Estelle M., Normanly J., Sandberg G. 2005. Sites and regulation of auxin biosynthesis in Arabidopsis roots. *Plant Cell*, 17, 1090-1104

Hull A. K., Criscuolo C. J., Mett V., Groen H., Steeman W., Westra H., Chapman G., Legutki B., Baillie L., Yusibov V. 2005. Human-derived, plant-produced monoclonal antibody for the treatment of anthrax. *Vaccine* 23, 2082-2086.

Zhao, Y., Hull, A. K., Gupta, N. R., Goss, K. A., Alonso, J., Ecker, J. R., Normanly, J., Chory, J., Celenza, J. L. 2002. Trp-dependent auxin biosynthesis in Arabidopsis: involvement of cytochrome P450s CYP79B2 and CYP79B3. *Genes and Development*, 16, 3100-3112