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The cytochrome P450 (CYP) superfamily has been found in all domains of life. CYP enzymes are mono-oxygenase enzymes with well-established and critical roles in chemical defense and the production and metabolism of biological signaling molecules such as hormones. The function and regulation of these genes are well understood in mammals but poorly described in fish and other aquatic organisms. In this seminar, I will describe some of the research we have undertaken to better understand the evolution, regulation, and function of CYPs in both vertebrate and invertebrate species. Through