

**Mathematical Model of Steroidogenesis
to Predict Intracellular Response to Endocrine Disrupting Compounds**

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Exposure to endocrine disrupting compounds (EDC) can induce adverse effects on reproduction mediated through alterations in the enzymes involved in steroidogenesis. We are developing a deterministic model of the intratesticular and intraovarian metabolic network in fish that mediates steroidogenesis. This model allows for an improved understanding of the source-to-outcome linkages necessary for risk assessments with EDCs. *This work was reviewed by the U.S. EPA and approved for publication but does not necessarily reflect Agency policy.*