

Conference Report
P42 ES004699, Bruce D. Hammock, University of California, Davis
ASPET Centennial Symposium, April 5-9, 2008, San Diego, CA
Epoxide Hydrolases in Pharmacology and Toxicology-Poster Discussion Session

This supplemental award was intended to support students and post-docs to attend the ASPET Centennial Symposium entitled "Development of Inhibitors of the Soluble Epoxide Hydrolase as a Novel Treatment for Hypertension, Vascular Inflammation and End Organ Damage." The objective was to bring together a variety of scientists interested in the epoxide hydrolase family in a setting encouraging interaction and collaboration. The symposium presented for the first time the story that investigation of the soluble epoxide hydrolase has not only lead to a deeper understanding of xenobiotic metabolism and toxic risk, but illustrates that some enzymes described as involved in xenobiotic metabolism may have endogenous roles. The symposium was attended by a large audience (at least 150 persons) with a wide variety of scientific background as judged by the diversity and quality of the discussion that followed each presentation.

The award allowed a poster/discussion session following the symposium at which 53 posters representing research from over 14 domestic and 11 international academic institutions as well as 3 private companies and 3 government agencies including NIEHS, USDA and the Veterans Administration were presented. The poster presentations illustrated the great potential of the sEH as a clinical target. In this case we move from basic research to a lead compound to treat cardiovascular disease. The topic is also timely in that a personal care product with high levels of human exposure has been found to be a low nanomolar inhibitor of the soluble epoxide hydrolase. This sEH inhibitor has been found to resist degradation in sewage treatment and has emerged as one of the major chlorinated chemicals in the environment.



With the grant, we were able to provide support for 45 students and post-docs to present and attend the poster session. As shown in the pictures above, there was a sizable crowd of researchers present during the posters session, with lively scientific discussions going on at every poster. From these, new scientific collaborations have certainly germinated and will result in novel and ground breaking publications very soon.

As shown on the picture at right, the support from this grant was clearly acknowledged at the entrance of the poster session. Furthermore, it was acknowledged in the conference program. The abstracts of the posters are being published in a special edition of FASEB Journal.

