

ICCA-LRI and NCATS Workshop

Santa Fe, NM

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La Posada de Santa Fe



INTERNATIONAL
COUNCIL OF
CHEMICAL
ASSOCIATIONS



What Is Normal? Implications for Chemical Safety Assessment

Exposures to chemicals occur as part of everyday life. How can we better understand those exposures that are within the normal range of adaptability for a cell, tissue, organ, or whole system such that adverse outcomes do not occur? The concept of an intersection between exposure and biological function that can initiate early changes but also initiate adaptive stress responses that result in a return to normal biological function was previously presented in the 2007 report from the National Research Council, *Toxicity Testing for the 21st Century: A Vision and a Strategy*. Where are we today regarding this concept?

- ▶ The International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) in collaboration with the U.S. National Institutes of Health's National Center for Advancing Translational Sciences (NCATS) invites you to attend this year's workshop on the provocative question of what is normal for humans regarding responses to chemical exposures. Through a combination of plenary and panel discussion sessions, the ICCA-LRI workshop will explore this question.

Session topic areas will include:

- ▶ What is the normal range of variability among important toxicological endpoints?
- ▶ How might age, health status, nutrition, or pre-existing susceptibilities impact adaptability?
- ▶ Which recent innovations in *in vitro* and animal model systems can advance our evaluation of what is normal?
- ▶ How can an exploration of what is normal inform our interpretation of results from omics testing or human biomonitoring studies?

A poster session highlighting relevant research will be included in the workshop agenda.



Santa Fe, New Mexico, USA – A culturally rich city offering both stunning landscapes and art and architecture influenced by the Hispanic, Anglo, and Native American cultures. Whether you enjoy the outdoors, art galleries and museums, or exploring cliff dwellings of the Anasazi Indians, Santa Fe has it all. We invite you to join us in this charming city!