

Lipid and Xenobiotic Signaling at the Nucleus

Call for Papers

Most lipid and xenobiotic signals modulate transcriptional networks in the nucleus that impact programs of nuclear hormone receptors (NHR). Often, the NHR responses trigger combinations of autocrine, paracrine and endocrine mediators. The coordinated regulation of these programmatic changes can be dynamic, permanent or a bit of both. Indeed, NHR mediate both nuclear and non-nuclear signaling events. They can vary in degree of impact on cellular compartment, cellular identity, organ function and the overall health state of the organism. Interestingly, NHR regulation can be fine-tuned by subtle changes such as fleeting protein and nucleic acid modifications or changes in metabolic flux. Genetic model systems, ranging from humans to yeast, are critical to understanding mechanistic insights into the basic biology of NHRs in the context of their interactions with other molecular entities. These discoveries can be seeded by clinical pharmacology, coupled to xenobiotic investigational drugs or natural products, and advanced by the development and strategic use of *in vitro*, *ex vivo* and *in vivo* bioassays.

In this thematic issue, we are interested in original research and review articles detailing basic and translational discoveries in NHR research, as well as substantive resources and tools for NHR research. Additionally, we welcome submissions focused on the role or potential impact of NHR in monitoring and treating various health conditions. Suggested topics include but are not limited to:

- Mechanistic and descriptive studies of nuclear hormone receptors and their ligands
- Non-nuclear signaling events mediated by NHR
- NHR and associated programs as targets in drug discovery
- NHR in preventative medicine
- NHR in personalized medicine, particularly disease modulation and drug responsiveness.
- Structural, bioinformatic and “omic” analyses and integrated wholistic approaches
- Impact of diet on NHR and use of dietary intervention in different health states
- Bioassays and chemical or natural product libraries for NHR research
- NHRs in organismal and adaptive homeostasis

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