

Allosteric Mechanisms and Regulatory Cross-Talk in Nuclear Receptor Signaling

Call for Papers

The molecular mechanisms by which nuclear receptors transmit signals are intimately linked to their unique ability to integrate and respond to interactions with diverse partner proteins and DNA response elements. Couple this with secondary posttranslational modifications, one finds highly refined mechanisms that fine-tune their allosteric behavior. Diverse ligand structures may further impact on receptor behavior, extending far beyond the ligand binding domain. Despite the wealth of structural and functional data accumulated over the last decades, the complex allosteric signaling patterns and resulting regulatory responses of NRs are still far from being fully deciphered. Recent advances have stressed the role of post-transcriptional regulation and of complex and dynamic cross-talk between NRs in selectively modulating physiological responses.

For this thematic issue, we invite original research and review articles that study molecular mechanisms of allosteric regulation in NRs, or provide new insight on cross-talk between different NRs and how such processes modulate signaling and downstream gene regulatory events. Suggested topics include but are not limited to:

- Experimental or computational studies that describe or interpret allosteric signal transmission in NRs
- Functional or molecular evidence of cross-talk between NR regulated pathways.
- Molecular mechanisms of ligand-induced conformational changes
- Transcriptional regulatory elements as allosteric regulators of NR functioning
- Role of NR domains in allostery and control of crosstalk
- Impact of cross-talk or allostery on nuclear receptor-cofactor interactions
- Coupling insights on allostery or crosstalk to drug design strategies
- Pathophysiological consequences of disrupted allosteric or cross-talk regulations

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