

Special Issue

Androgen Receptor and AR-Related Signaling in Health and Disease

Message from the Guest Editors

AR signaling plays a crucial role in physiological processes like muscle growth, maintenance of the prostate tissue, spermatogenesis, and development of the male phenotype, as well as in female reproductive processes like ovarian folliculogenesis. On the other hand, dysregulated AR signaling is strongly correlated to tumorigenesis and progression of hormone-sensitive tumors like prostate carcinoma and breast cancer and may also play a pivotal role in other tumor entities.

Taken together, although there are well-established connections between the mechanisms of AR signaling, some target genes regulated by the AR, and physiological or pathophysiological processes influenced by these pathways, many elements in the complex interplay between the AR-regulated transcriptome, signaling pathways altered by AR dysregulation, and the resulting changes in cellular phenotype as well as putative pathophysiological consequences remain to be elucidated.

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