

Special Issue

Molecular Research of Nuclear Receptors and Oncology

Message from the Guest Editor

Nuclear receptors are a group of transcription factors that respond to endogenous and xenobiotic compounds. In the field of oncology, sex hormone-responsive nuclear receptors, such as estrogen receptor and androgen receptor, have been targets of cancer chemotherapy. In fact, a number of drugs targeting these receptors have been developed and used clinically. Not only agonists and antagonists but also selective modulators of these receptors' functions are used, although their mechanisms of action are not fully understood. Xenobiotic-responsive nuclear receptors, such as CAR and PXR, are also drawing the attention of researchers from the viewpoint of chemical carcinogenesis and the metabolism and pharmacokinetics/pharmacodynamics of chemotherapeutic agents. Moreover, several nuclear receptors, including ROR α and NR4A1, have been reported to modulate immunity and inflammation. Due to a close relation between cancer and immunity/inflammation, nuclear receptors may become a novel target of cancer therapy. This Special Issue welcomes original and review manuscripts describing recent progress in nuclear receptor research in oncology at molecular levels.

Guest Editor

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