Special Issue

Understanding Cannabinoid Receptor Signaling Complexity: Keys for Improved Therapeutic Drug Development

Message from the Guest Editor

Cannabinoid receptors (CBRs) activation results in both therapeutic, and unfortunately adverse, effects, which currently limits the clinical use of drugs in this class. However, mechanisms controlling cannabinoid receptor activation and subsequent intracellular signaling processes are highly complex and thus might be exploited to overcome these limitations to preferentially activate pathways responsible for therapeutic rather than adverse effects. Articles for this Special Issue are sought to provide improved knowledge to help harness these and other mechanisms of producing CBR signaling diversity and to lead to the development of cannabinoid-based drugs with enhanced therapeutic activity and reduced toxicity. Topics of interest include but are not limited to:

- Orthosteric and allosteric CBR signaling;
- CBR functional selectivity and bias signaling;
- CBR-interacting proteins;
- Signaling of non-canonical CBRs;
- CBR-signaling networks;
- Tissue-specific CBR signaling;
- CBR signaling in cancer cells;
- Molecular modeling of CBR ligands;
- CBR structure and function.

Guest Editor

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