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MRI Contrast Agents

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Message from the Guest Editor

Dear Colleagues,

Magnetic Resonance Imaging (MRI) is one of the most powerful techniques used in clinical diagnostics and biomedical research. Due to the low sensitivity of MRI, the development of MRI contrast agents is a very active and wide field of research. There is a high diversity in the objects studied, ranging from small complexes to nanoparticles; the type of contrast agent, T_1, T_2 or Chemical Exchange Saturation Transfer (CEST); and their applications. The contrast agents in clinical use today are mainly non-specific. For better and early detection of diseases, targeted and responsive probes (which are selectively activated by a specific biomarker) are gaining increasing interest. Moreover, the combination of MRI and other imaging techniques enables to gain complementary information, and requires the development of multimodal probes. Finally, theranostic agents, that combine diagnostics and therapy in a single entity, represent a whole new area of development. This Special Issue aims to highlight the diversity of MRI contrast agents in terms of chemical structure and broad field of applications.

Dr. Célia S. Bonnet
Guest Editor

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Message from the Editor-in-Chief

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