



Patient-Derived Orthotopic Xenograft (PDOX) Mouse Models of Cancer

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Message from the Guest Editor

Dear Colleagues,

Patient-derived mouse models of cancer have revolutionized cancer research over the past 50 years. Thirty years ago, we developed the patient-derived orthotopic xenograft (PDOX) model which, for the first time, enabled the tumor to behave in the mouse as it did in the patient—in particular, with regard to metastasis. The PDOX model, which has been established for all major tumor types, is now being used for drug discovery as well as individualized patient therapy. The model is particularly significant because the tumor is growing within its natural tumor microenvironment, rather than subcutaneously. Therefore, we are arranging a Special Issue of *Cells* which will feature the PDOX model. We welcome submissions regarding any type of PDOX model and its use in drug discovery, individualized patient therapy, molecular biology studies of tumor growth, studies on the interaction between cancer cells and stromal cells within the tumor, as well as on new imaging techniques and other emerging techniques that can help us to better understand tumor growth and how to inhibit or eradicate tumors.

Keywords

- PDOX
- mouse models
- individualized therapy
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