

Special Issue

Porcine Models of Ovarian Cancer

Message from the Guest Editor

Due to recent advances in sequencing several domestic animal genomes and the development of new organism cloning technologies, it is now very feasible to utilize other species to model human disease, notably the pig. Advantages include resemblance in anatomy, physiology, and genetic makeup with the human, as well as the ability to manipulate the pig genome. To date, multiple porcine models of human disease have been developed, including a genetically-engineered porcine model of cystic fibrosis. Most recently this technology has been applied to development of porcine models of various tumor types including breast, pancreatic, and leukemia with the production major histocompatibility complex (MHC)-defined inbred miniature swine model, and to an OncoPig®, a highly immunocompromised pig able to act as recipients for human tumor cells. Porcine models have also been used to develop, test, and refine surgical and laparoscopic techniques, radio- and cryoablation protocols of tissues, and robotic surgery.

Guest Editor

Dr. Stephen J. Williams

Sbarro Institute for Cancer Research and Molecular Medicine and Center for Biotechnology, Biology Department, Temple University, Philadelphia, PA 19122, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editorial Board

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