Special Issue

Artificial Intelligence (AI), Robotics, and Cancer Surgery

Message from the Guest Editor

The integration of robotics has revolutionized cancer surgery, delivering exceptional precision, minimally invasive techniques, and improved short-term outcomes for solid organ cancers. AI holds the promise of advancing this field further through enhanced diagnostic accuracy, predictive analytics, virtual/augmented surgical planning, and potential real-time intraoperative guidance for robotic platforms. Together, AI and robotics could pave the way for personalized surgeries tailored to each patient's unique cancer biology. We welcome submissions on:

- Advances in AI algorithms for cancer surgery, including image recognition, predictive models, and intraoperative decision-making tools.
- Innovations in robotic systems for oncological procedures, from minimally invasive to complex surgeries.
- Clinical studies evaluating the safety, efficacy, and outcomes of AI and robotic techniques.
- Ethical, regulatory, and socio-economic challenges, including patient privacy, data security, and preserving the human touch in automated care.
- Reviews on the impact of AI and robotics on surgical training and the future oncology workforce.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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