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Education

University of Chicago

Irina Ostrovnyaya

Current Research Interests

Dr. Ostrovnaya is focused on developing and applying statistical methods in cancer genomics. One of her research projects involves methodology for distinguishing second primary tumors from metastases using mutational profiles. Other interests include developing new methods for investigating tumor heterogeneity and prognostic modeling using high throughput molecular data. Dr. Ostrovnaya is a biostatistician for the head and neck, translational kidney and bladder cancer oncology groups.

Publications

Selected peer-reviewed publications:

Mauguen A, Seshan VE, Ostrovnaya I, Begg CB. "Estimating the probability of clonal relatedness of pairs of tumors in cancer patients.", *Biometrics*. 2017 May 8. doi: 10.1111/biom.12710. [Epub ahead of print] PMID: 28482133

Devlin SM, Ostrovnaya I, Gonen M. "Boomerang: A method for recursive reclassification", *Biometrics*. 2016 Jan 11. doi: 10.1111/biom.12469.

Ostrovnaya I, Seshan B and Begg CB, "Using Somatic Mutation Data To Test Tumors For Clonal Relatedness", *Ann Appl Stat*. 2015 Sep;9(3):1533-1548. Epub 2015 Nov 2. PMID: 26594266

Ostrovnaya I., Nicolae D.L. "Estimating the proportion of true null hypotheses under dependence", *Statistica Sinica*, 2012 (22), 1689-1716

Ostrovnaya I., Seshan V E, Olshen A. and Begg C.B. "Clonality: an R package for testing clonal relatedness of two tumors from the same patient based on their genomic profiles", *Bioinformatics*, 2011 Jun 15;27(12):1698-9.

[Visit PubMed for a full listing of Irina Ostrovnaya's journal articles](#)

Pubmed is an online index of biomedical articles maintained by the U.S. National Library of Medicine and the National Institutes of Health.

My Downloads

[Clonality Testing: Excel Macros](#)

[Clonality Testing: R Package](#)

[Software for CNV Prediction](#)

Disclosures

Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

MSK requires doctors and faculty members to report (“disclose”) the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public.

Irina Ostrovnaya discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

The information published here is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are categorized by organizations that publish such data.

This page and data include information for a specific MSK annual disclosure period (January 1, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

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