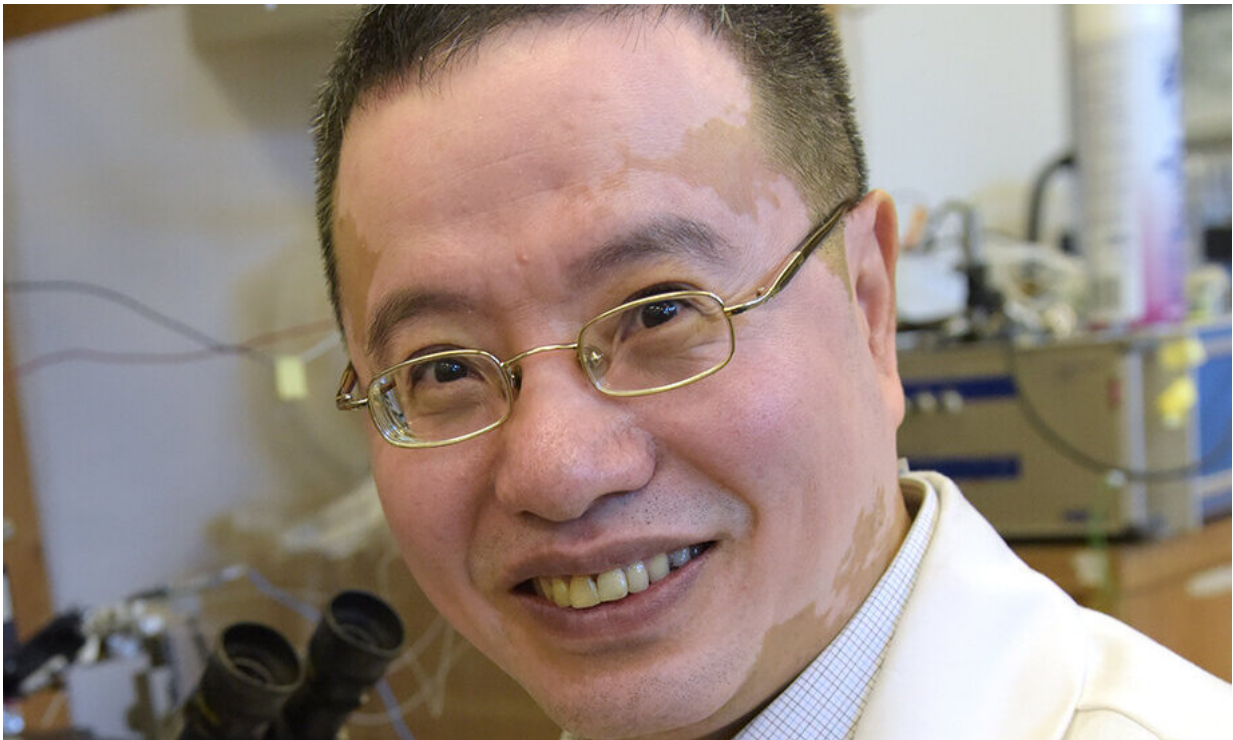


In brief: Choice of anesthesia may affect breast cancer metastases

January 31 2020



Lead investigator Dr. Jun Lin. Credit: Stony Brook University

A new study led by Stony Brook University Cancer Center researchers to be published in *Nature Communications* suggests that the choice of anesthesia may change the metastatic process of breast cancer by affecting the cytokine and microenvironment.

Jun Lin, MD, Ph.D., of the Department of Anesthesiology in the Renaissance School of Medicine at Stony Brook University, and colleagues found that sevoflurane anesthesia leads to more metastatic burden in the lung after [breast tumor](#) resecting surgery than propofol in laboratory models.

The study findings may serve as a guide to design [clinical trials](#) for clinicians to optimize anesthesia choice for breast cancer surgery in order to achieve best long-term outcomes.

More information: Ru Li et al. Distinct effects of general anesthetics on lung metastasis mediated by IL-6/JAK/STAT3 pathway in mouse models, *Nature Communications* (2020). DOI: 10.1038/s41467-019-14065-6

Provided by Stony Brook University

Citation: In brief: Choice of anesthesia may affect breast cancer metastases (2020, January 31) retrieved 26 March 2023 from <https://medicalxpress.com/news/2020-01-choice-anesthesia-affect-breast-cancer.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
