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Ph.D. Student in Chemical Engineering, admitted Summer 2019

Bio

EDUCATION AND CERTIFICATIONS

- M.S., Stanford University, Stanford, CA , Bioengineering
- B.Eng. (Hons.), Nanyang Technological University, Singapore , Chemical and Biomolecular Engineering

Publications

PUBLICATIONS

- **Integrated "lab-on-a-chip" microfluidic systems for isolation, enrichment, and analysis of cancer biomarkers.** *Lab on a chip*
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- **Methods to Evaluate Changes in Mitochondrial Structure and Function in Cancer.** *Cancers*
Rickard, B. P., Overchuk, M., Chappell, V. A., Kemal Ruhi, M., Sinawang, P. D., Nguyen Hoang, T. T., Akin, D., Demirci, U., Franco, W., Fenton, S. E., Santos, J. H., Rizvi, I.
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- **Review of HIV Self Testing Technologies and Promising Approaches for the Next Generation.** *Biosensors*
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- **Robotic Pill for Biomarker and Fluid Sampling in the Gastrointestinal Tract** *ADVANCED INTELLIGENT SYSTEMS*
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- **Progress and challenges in biomarker enrichment for cancer early detection** *Progress in Biomedical Engineering*
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- **Cost-Effectiveness Analysis of Fenestrated Endovascular Aneurysm Repair Compared With Open Surgical Repair for Patients With Juxtarenal Abdominal Aortic Aneurysms**
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- **TEMPO-based immuno-lateral flow quantitative detection of dengue NS1 protein** *SENSORS AND ACTUATORS B-CHEMICAL*
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- **Photoinducible silane diazirine as an effective crosslinker in the construction of a chemiluminescent immunosensor targeting a model E. coli analyte** *SENSORS AND ACTUATORS B-CHEMICAL*
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- **Rapid and label-free electrochemical DNA biosensor for detecting hepatitis A virus** *BIOSENSORS & BIOELECTRONICS*
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- **Electrochemical impedimetric detection of stroke biomarker NT-proBNP using disposable screen-printed gold electrodes** *EUROBIOTECH JOURNAL*
Sinawang, P., Harpaz, D., Fajs, L., Seet, R., Tok, A., Marks, R. S.
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- **Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein** *BIOSENSORS & BIOELECTRONICS*
Sinawang, P., Rai, V., Ionescu, R. E., Marks, R. S.
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- **Lateral Flow Immunoassays - from Paper Strip to Smartphone Technology** *ELECTROANALYSIS*
Eltzov, E., Guttel, S., Kei, A., Sinawang, P., Ionescu, R. E., Marks, R. S.
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- **Optimizing aerosolization efficiency of dry-powder aggregates of thermally-sensitive polymeric nanoparticles produced by spray-freeze-drying** *POWDER TECHNOLOGY*
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