Ryan Kawalerski, B.S.

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Training

2017- Student Researcher, Dr. Richard Moffitt Laboratory, Stony Brook Medicine, Biomedical Informatics
Transcriptomics subtyping of pancreatic ductal adenocarcinoma

2017- Student Researcher, Drs. Kenneth Shroyer and Luisa Escobar-Hoyos Laboratory, Stony Brook Medicine, Pathology
Keratin 17 protein solubility and pancreatic ductal adenocarcinoma aggression

2017 Student Researcher, Dr. Adan Aguirre Laboratory, Stony Brook University, Pharmacology
Amyloid Precursor Protein cleavage and oligodendrocyte differentiation

2016-2017 Student Researcher, Dr. Eckard Wimmer Laboratory, Stony Brook University, Molecular Genetics and Microbiology
Poliovirus capsid formation and genome packaging

2016 Student Researcher, Stony Brook University iGEM Competition team
Detection of Glypican-1, a pancreatic cancer biomarker, with a yeast chassis

Education

2019- **MD/PhD**, The Johns Hopkins University School of Medicine

2015-2019 **B.S. Applied Math and Statistics/Biochemistry**, Stony Brook University

Honors & Awards

2019- NIH Medical Scientist Training Program Fellowship

2019 Chhabra Undergraduate Summer Research Grant, Stony Brook University

2019 SUNY Chancellor's Award

2018 Barry Goldwater Scholarship

2018 "Stars of Stony Brook" Gala, featured student

2018 Worldwide Assurance for Employees of Public Agencies Scholarship

2017 Undergraduate Summer Research Grant, Stony Brook University

2017 Sei Sujishi Prize for Excellence in Undergraduate Chemistry

2016 PSEG Explorations in STEM Summer Research Grant, Stony Brook University

2016-2019 Trustee Scholarship, Stony Brook University

2016-2019 NYS HESC Scholarship, Stony Brook University

2016 Combined Federal Campaign Scholarship for Academic Excellence

Teaching Service

2017-2019 Chair, President's Council of Student Advisors, Stony Brook University

2017-2019 Student Ambassador, Office of Student Affairs, Stony Brook University

2016-2017 Peer Tutor, Academic Success and Tutoring Center, Stony Brook University

2016 Teaching Assistant, Introductory Molecular Chemistry, Stony Brook University

Publications & Presentations

Peer-Reviewed Publications (4 papers, 67 citations, H-index: 2)

* equal contribution
\# corresponding author

2021 **Kawalerski RR**, Leach SD, Escobar-Hoyos LF#. *Pancreatic cancer driver mutations are targetable through distant alternative RNA splicing dependencies.* Oncotarget.

2020 Pan CH*, Otsuka Y*, Sridharan B, Woo W, Leiton CV, Babu S, Goncalves MT, **Kawalerski RR**, Bai JDK, Chang D, Biankin A, Scampavia L, Spicer T, Escobar-Hoyos LF, Shroyer KR. *An unbiased high-throughput drug screen reveals a potential therapeutic vulnerability in the most lethal subtype of pancreatic cancer.* Molecular Oncology.

2019 Rashid NU*, Peng XL*, Jin C, Moffitt RA, Volmar KE, Belt BA, Panni RZ, Nywening TM, Herrera SG, Moore KJ, Hennessey S, Morrison AB, **Kawalerski R**, Nayyar A, Chang AE, Schmidt B, Kim HJ, Linehan DC, Yeh JJ. *Purity Independent Subtyping of Tumors (PurIST), a clinically robust single-sample classifier for tumor subtyping in pancreatic cancer.* Clinical Cancer Research. 26(1):82-92

2018 Beal J, Haddock-Angelli T, Baldwin G, Gershater M, Dwijayanti A, Storch M, de Mora K, Lizarazo M, Rettberg R, with **iGEM Interlab Study Collaborators** *Quantification of Bacterial Fluorescence Using Independent Calibrants.* PLoS One. 13(6):e0199432

Non peer-reviewed publications

2019 **Kawalerski R**, Beyan Y, Francisco T, Griman N, Hawrey T, Kuruvilla A, Rawal S, Rein H, Shaps Z, and Zheng T. *Online Learning at Stony Brook University: Student/Faculty Perspectives and Recommendations for Future Development.* Stony Brook University Office of the President.

Presentations

2019 Oncogenic mechanism of soluble Keratin 17 offers potential therapeutic vulnerability in pancreatic cancer. AACR Pancreatic Cancer: Advances in Science and Clinical Care. Boston, MA.

2019 Soluble Keratin 17 promotes pancreatic ductal adenocarcinoma growth and aggression. Stony Brook University Undergraduate Symposium. Stony Brook, NY. (Best undergraduate poster presentation)

2019 Oncogenic mechanism of soluble Keratin 17 offers potential therapeutic vulnerability in pancreatic cancer. Experimental Biology. Orlando, FL.

2018 Single sample classifier outperforms clustering in determining pancreatic ductal adenocarcinoma subtype. AACR Pancreatic Cancer: Advances in Science and Clinical Care. Boston, MA.

2018 Oncogenic mechanism of soluble Keratin 17 offers potential therapeutic vulnerability in pancreatic cancer. AACR Pancreatic Cancer: Advances in Science and Clinical Care. Boston, MA.

2018 Deriving new ways to treat pancreatic cancer based on a tumor-promoting mechanism of Keratin 17. Stony Brook University Undergraduate Symposium. Stony Brook, NY.

2018 Keratin 17 solubilization promotes pancreatic cancer aggression and growth. Stony Brook Medicine Pathology Research Retreat. Stony Brook, NY. (Best poster presentation among undergraduate and graduate trainees)

2017 Phosphorylation trigger Keratin 17 solubility and nuclear localization and is a negative prognostic biomarker in pancreatic cancer. Stony Brook Medicine Pathology Research Retreat. Stony Brook, NY.

2016 Detecting early-stage pancreatic cancer using engineered *S. cerevisiae*. International Genetically Engineered Machine Competition. Boston, MA. (Silver medal award)