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The Nikolaus Schultz Lab

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Nikolaus Schultz, PhD

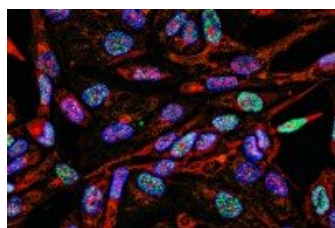
Director, Cancer Data Science Initiative; Head of Knowledge Systems, Marie-Josée & Henry R. Kravis Center for Molecular Oncology;
Attending Computational Oncologist, Department of Epidemiology & Biostatistics

The Schultz lab focuses on identifying the genomic alterations that underlie different types of cancer. By applying existing and novel computational methods to large scale cancer genomics data sets, the lab aims to better understand the complex mechanisms at the gene and at the pathway level that drive tumor initiation, progression and response to therapy, with the ultimate goal of identifying targeted therapeutic options for cancer patients. A new focus of the lab is the systematic extraction and standardization of clinical data elements from electronic health records. The lab is also involved in collaborative large-scale projects such as The Cancer Genome Atlas (TCGA), AACR Project GENIE, and the Human Tumor Atlas (HTAN). The group also has a strong interest in enabling discoveries by developing novel computational methods and databases that help bridge the divide

between computer scientists on one side and clinicians and researchers on the other. Examples of these include the cBioPortal for Cancer Genomics, a popular resource for the visualization and analysis of cancer genomics data, and OncoKB®, a precision oncology knowledgebase.



Featured News



[The Mystery of Metastasis: Can a Tumor's Genetic Mutations Predict Whether and Where Cancer Will Spread?](#)

Data from 25,000 patients is helping scientists answer this and many other important questions.

FEATURE



[A Milestone for Precision Oncology: FDA Gives Green Light to MSK's Genetic](#)

[Database](#)

OncoKB, a database developed and maintained by investigators at MSK, helps match patients with targeted therapies based on the mutations found in their tumors.

IN THE LAB



[What Was MSK's Role in TCGA, the Groundbreaking Cancer Genomic Study?](#)

The multicenter project, which yielded dozens of scientific papers on more than 30 different kinds of cancer, has officially drawn to a close.

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Publications Highlights

Kahn RM, Selenica P, Boerner T, Roche KL, Xiao Y, Sia TY, Maio A, Kemel Y, Sheehan M, Salo-Mullen E, Breen KE, Zhou Q, Iasonos A, Grisham RN, O'Cearbhaill RE, Chi DS, Berger MF, Kundra R, Schultz N, Ellenson LH, Stadler ZK, Offit K, Mandelker D, Aghajanian C, Zamarin D, Sabbatini P, Weigelt B, Liu YL. [Pathogenic germline variants in non-BRCA1/2 homologous recombination genes in ovarian cancer: Analysis of tumor phenotype and survival.](#) Gynecol Oncol. 2023 Dec 1;180:35-43.

Jiagge E, Jin DX, Newberg JY, Perea-Chamblee T, Pekala KR, Fong C, Waters M, Ma D, Dei-Adomakoh Y, Erb G, Arora KS, Maund SL, Njiraini N, Ntekim A, Kim S, Bai X, Thomas M, van Eeden R, Hegde P, Jee J, Chakravarty D, Schultz N, Berger MF, Frampton GM, Sokol ES, Carrot-Zhang J. [Tumor sequencing of African ancestry reveals differences in clinically relevant alterations across common cancers.](#) Cancer Cell. 2023 Oct 23:S1535-6108(23)00359-8.

Suehnholz SP, Nissan MH, Zhang H, Kundra R, Nandakumar S, Lu C, Carrero S, Dhaneshwar A, Fernandez N, Xu BW, Arcila ME, Zehir A, Syed A, Brannon AR, Rudolph JE, Paraiso E, Sabbatini PJ, Levine RL, Dogan A, Gao J, Ladanyi M, Drilon A, Berger MF, Solit DB, Schultz N, Chakravarty D. [Quantifying the Expanding Landscape of Clinical Actionability for Patients with Cancer.](#) Cancer Discov. 2023 Oct 18.

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People



Nikolaus Schultz, PhD

Director, Cancer Data Science Initiative; Head of Knowledge Systems, Marie-Josée & Henry R. Kravis Center for Molecular Oncology; Attending Computational Oncologist, Department of Epidemiology & Biostatistics

Cancer biologist Nikolaus Schultz uses computational tools to study the diversity of genomic alterations underlying different cancer types.

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Members



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Senior Project Coordinator



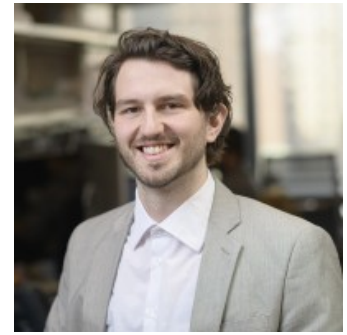
Kevin M. Boehm

Resident Physician,
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NY



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Senior Computational
Biologist II



Ino de Bruijn

Bioinformatics Software
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Nikolaos Dimitriou

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Jordan Eichholz

Computational Biologist I



Christopher Fong

Bioinformatics Software
Engineer III



Chenlian (Tom)

Fu
WGS Student



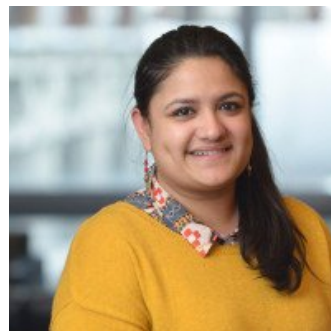
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Han

WGS Student



Justin Jee

Instructor

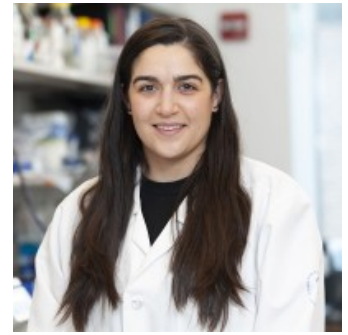


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Kundra



Desiree Lara
Program Assistant

Bioinformatics Software
Engineer



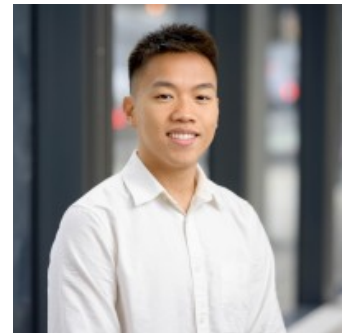
Brooke
Mastrogiacomio
Computational Biologist II

Enrico
Moiso
Senior Computational
Biologist I

Fatema Nagib
NE Agency Contingent



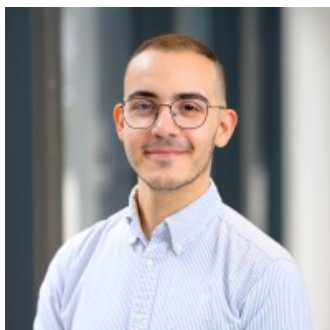
Subhiksha
Nandakumar
Senior Computational
Biologist I



John
Nguyen
WGS Student



Karl Pichotta
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Associate Director, CRC
Initiatives

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Seffar
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Farheen Shah
Computational Biologist I

Thinh Tran
GSK Graduate Student



Henry Walch
Computational Biologist II



Michele Waters
Senior Computational
Biologist

Lab Alumni
+

Lab Affiliations
+

Achievements

Memorial Hospital Award for Excellence in Mentoring (2022)
Geoffrey Beene Junior Faculty Chair (2019)
[Josie Robertson Investigator \(2013-2018\)](#)
Stupski Prize in Prostate Cancer Computational Oncology (2015)
Young Investigator Award, Prostate Cancer Foundation (2014)

Open Positions

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Postdoctoral Researcher, Cancer Genomics – Schultz Laboratory Memorial Sloan Kettering Cancer Center

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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.

Nikolaus Schultz discloses the following relationships and financial interests:

Cambridge Innovation Institute

Professional Services and Activities (Uncompensated)

Innovation in Cancer Informatics

Professional Services and Activities (Uncompensated)

Novartis

Professional Services and Activities

OneOncology

Professional Services and Activities

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