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About Us Sloan Kettering Institute CANCER BIOLOGY & GENETICS PROGRAM

Research

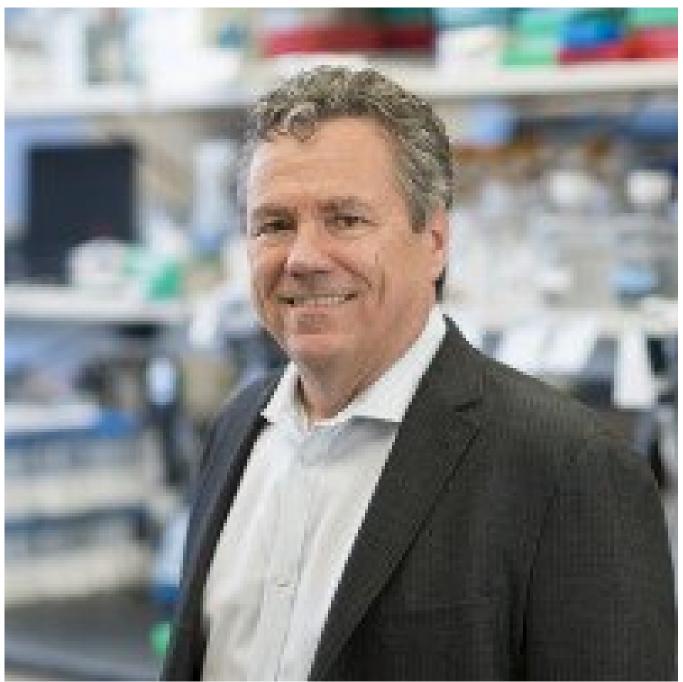
The Scott Lowe Lab

Education & Training

Cancer Biology & Genetics Program News & Events

Research Open Positions

The Scott Lowe Lab 1/12



Scott W. Lowe, PhD
Chair, Cancer Biology & Genetics Program, SKI; Chair, Geoffrey Beene Cancer Research Center; Investigator,
Howard Hughes Medical Institute

About the Scott Lowe Lab

Our laboratory studies tumor-suppressor networks controlling apoptosis and senescence and how their disruption influences malignant behavior.

Follow Lowe Lab on Twitter!

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Research Projects

The p53 Tumor Suppressor Network

Cellular Senescence in Tumor Suppression and Tissue Pathology

Identifying Tumor Maintenance Genes

Accelerating Cancer Discovery Using Mouse Models

VIDEO | 02:17

Go inside the lab of Scott Lowe from SKI's Cancer Biology & Genetics Program.

Video Details -



The Scott Lowe Lab 3/12

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Featured News



Expansion of Cell-to-Cell Communication Drives the Early Development of Pancreatic Cancer, New Research in Mice Finds

New MSK research combined sophisticated genetically engineered mouse models and advanced computational methods to map the earliest cell states leading to pancreatic ductal adenocarcinoma (PDAC), the most common type of pancreatic cancer.



New MACHETE Technique Slices Into Cancer Genome To Study Copy
Number Alterations

Learn why MSK researchers developed MACHETE, a new CRISPR-based technique to study large-scale genetic deletions efficiently in laboratory models.

IN THE LAB



SKI Scientists Solve 30-Year-Old Mystery About p53 Protein — Dubbed 'Guardian of the Genome'

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Rather than promoting genetic chaos, loss of p53 leads to an orderly progression of genetic changes that no one saw coming.

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Publications Highlights

Epigenetic plasticity cooperates with cell-cell interactions to direct pancreatic tumorigenesis.

Burdziak C, Alonso-Curbelo D, Walle T, Reyes J, Barriga FM, Haviv D, Xie Y, Zhao Z, Zhao CJ, Chen HA, Chaudhary O, Masilionis I, Choo ZN, Gao V, Luan W, Wuest A, Ho YJ, Wei Y, Quail DF, Koche R, Mazutis L, Chaligné R, Nawy T, Lowe SW, Pe'er D.Science. 2023 May 12;380(6645):eadd5327. doi: 10.1126/science.add5327. Epub 2023 May 12.PMID: 37167403

Senescence Rewires Microenvironment Sensing to Facilitate Antitumor Immunity.

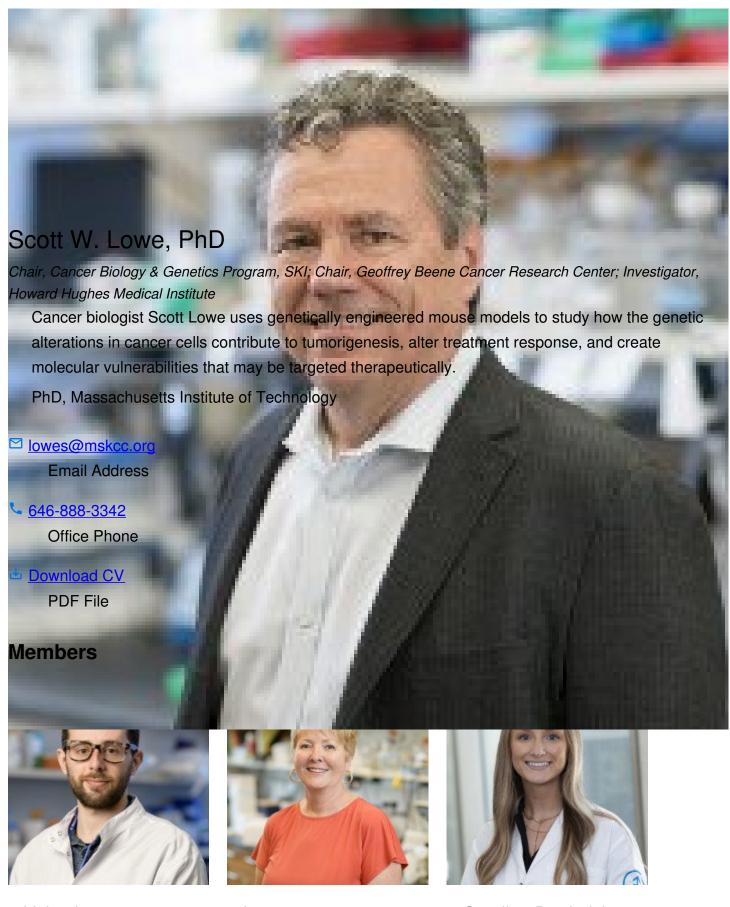
Chen HA, Ho YJ, Mezzadra R, Adrover JM, Smolkin R, Zhu C, Woess K, Bernstein N, Schmitt G, Fong L, Luan W, Wuest A, Tian S, Li X, Broderick C, Hendrickson RC, Egeblad M, Chen Z, Alonso-Curbelo D, Lowe SW.Cancer Discov. 2023 Feb 6;13(2):432-453. doi: 10.1158/2159-8290.CD-22-0528.PMID: 36302222 Free PMC article.

MACHETE identifies interferon-encompassing chromosome 9p21.3 deletions as mediators of immune evasion and metastasis.

View All Publications

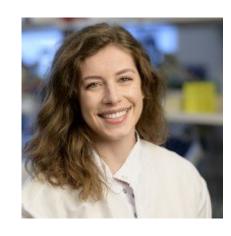
People

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Valentin Barthet Lynn Boss Caroline Broderick
Graduate Student

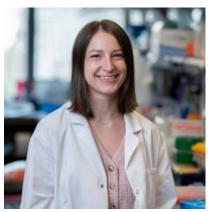
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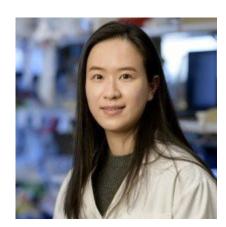
Andrea Chaikovsky
Postdoctoral Researcher



Almudena Chaves
Perez
Postdoctoral Researcher



Isabella Del Priore Graduate Student



Fang
Research Technician

Xin



Aveline
Filliol
Lead Program Manager

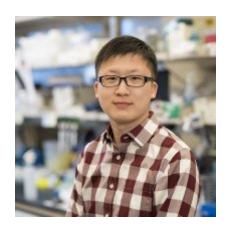


Hailey V. Goldberg
Graduate Student



Clemens
Hinterleitner
Postdoctoral Researcher

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Yu-Jui (Ray) Ho Computational Biologist



Margaret Kennedy Graduate Student



Wei Luan Senior Research Technician



Domhnall McHugh
Postdoctoral Researcher



Riccardo Mezzadra Postdoctoral Researcher



Nalin Ratnayeke
Postdoctoral Researcher



José
Reyes
Postdoctoral Researcher



Corinne L.
Rodriguez
Assistant to Chair

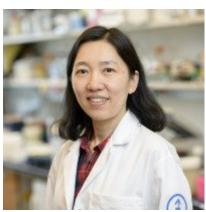


Janelle Simon Mouse Colony Manager

The Scott Lowe Lab 8/12



Exequiel
Sisso
Research Technician



Sha Tian
Senior Research
Technician



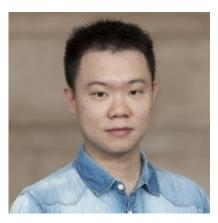
Anne Trumble-Koncelik Lab Manager



Kaloyan
Tsanov
Postdoctoral Researcher



Zeda
Zhang
Postdoctoral Researcher



Changyu Zhu
Postdoctoral Researcher

Lab Alumni +

Lab Affiliations +

Get in Touch

Iowes@mskcc.org
Lab Head Email

The Scott Lowe Lab 9/12

646-888-3342
Office Phone
646-888-3347

646-888-3340 Lab Phone

Office Fax

X Lowe Lab Twitter

Lab Resources

+

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Eli Lilly and Company

Equity

Faeth Therapeutics, Inc.

Equity; Professional Services and Activities (Uncompensated)

Fate Therapeutics

Intellectual Property Rights; Professional Services and Activities

Geras Bio Inc

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Mirimus

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