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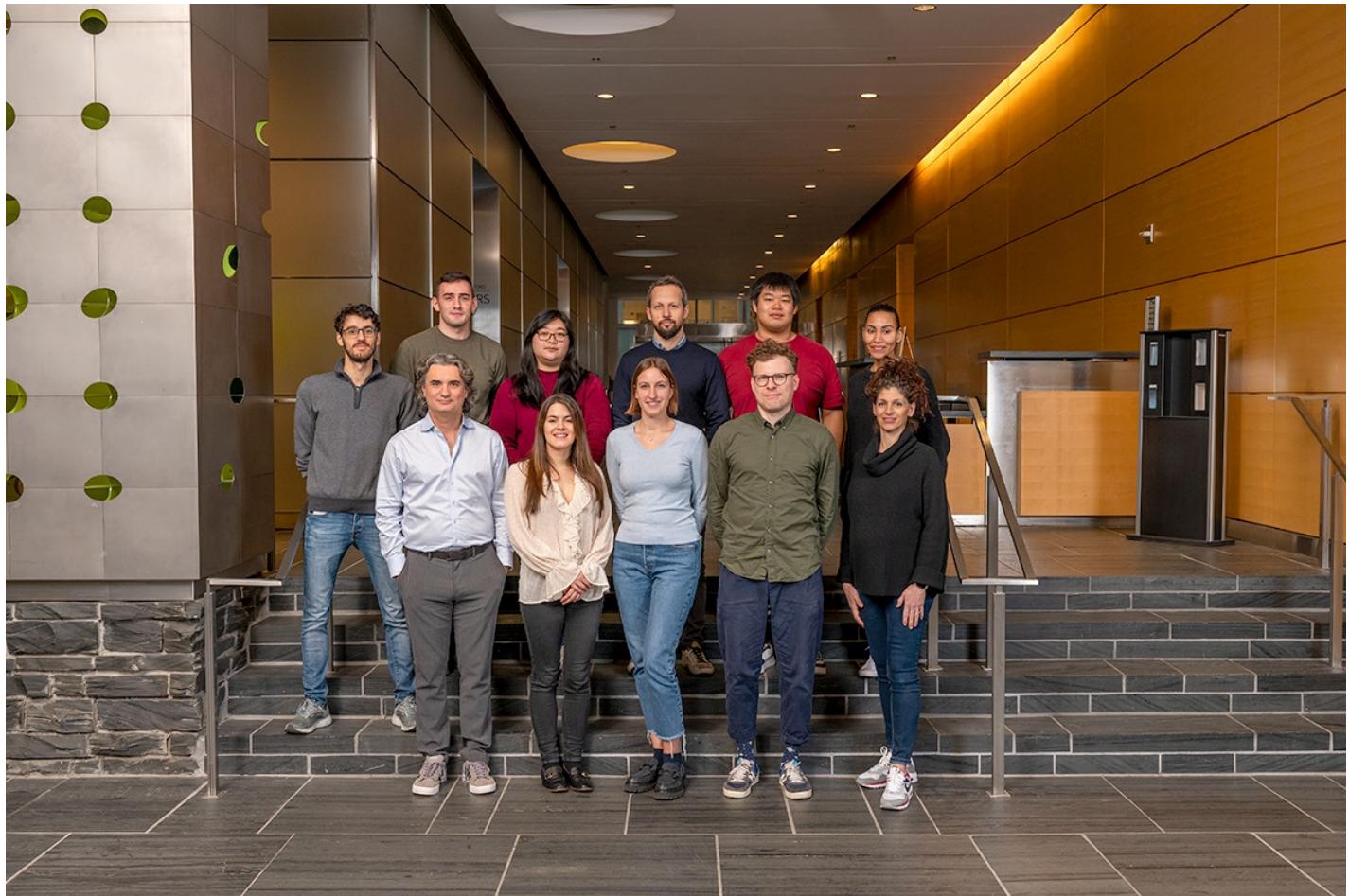
Andrea Ventura, MD, PhD

One of the most exciting discoveries of the last two decades has been the identification of a large number of non-coding RNAs and the realization that they play essential roles in mammalian development and in diseases. Their study and the characterization of their contribution to the pathogenesis of human cancer is the central focus of our group. To learn more about our lab, please visit our blog and webpage at: [www.ventralaboratory.com](http://www.venturalaboratory.com) .

[View Lab Overview \(<https://www.mskcc.org/research/ski/labs/andrea-ventura/overview>\)](https://www.mskcc.org/research/ski/labs/andrea-ventura/overview)

Research Projects

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Featured News



[At Work: Cancer Biologist Andrea Ventura](#)

Andrea Ventura's research is focused on microRNA expression, as he seeks to understand how small RNAs act on genes to promote or suppress cancer.

IN THE LAB



[Disorderly DNA: Researchers Simulate a Common Cause of Lung Cancer](#)

MSK scientists have created a mouse model that replicates a subtype of non-small cell lung cancer caused by a chromosomal rearrangement.

VIDEO



[A Look Inside the Geoffrey Beene Cancer Research Center](#)

Watch our scientists discuss how the Geoffrey Beene Center helped Memorial Sloan Kettering establish a progressive approach to modern cancer research.

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Publications Highlights

[Davide Pradella, Minsi Zhang, Rui Gao, Melissa A. Yao, Katarzyna M. Gluchowska, Ylenia Cendon-Florez, Tanmay Mishra, Gaspare La Rocca, Moritz Weigl, Ziqi Jiao, Hieu H. M. Nguyen, Marta Lisi, Mateusz M. Ozimek, Chiara Mastroleo, Kevin Chen, Felix Grimm, Jens Luebeck, Shu Zhang, Andrea Alice Zolli, Eric G. Sun, Bhargavi Dameracharla, Zhengqiao Zhao, Yuri Pritykin, Carlie Sigel and Andrea Ventura Engineered extrachromosomal oncogene amplifications promote tumorigenesis. *Nature*\(2024\).](#)

<https://doi.org/10.1038/s41586-024-08318-8>

[Li X., Pritykin Y., Concepcion C.P., Lu Y., La Rocca G., Zhang M., King B., Cook P.J., Au](#)

[Y. W., Popow O., Paulo J.A., Otis G.A., Mastroleo C., Ogrodowski P., Schreiner R., Haigis K.M., Betel D., Leslie C.S., Ventura A. High-Resolution In Vivo Identification of miRNA Targets by Halo-Enhanced Ago2 Pull-Down Molecular Cell, June 3, 2020](#)
<https://doi.org/10.1016/j.molcel.2020.05.009> PMID:32497493

[Perez AR, Pritykin Y, Vidigal JA, Chhangawala S, Zamparo L, Leslie CS, Ventura A. GuideScan software for improved single and paired CRISPR guide RNA design. Nat Biotechnol. 2017 Mar 6. doi: 10.1038/nbt.3804. \[Epub ahead of print\] PMID: 28263296](#)

[Han YC, Vidigal JA, Mu P, Yao E, Singh I, González AJ, Concepcion CP, Bonetti C, Ogrodowski P, Carver B, Selleri L, Betel D, Leslie C, Ventura A. An allelic series of miR-17 ~ 92-mutant mice uncovers functional specialization and cooperation among members of a microRNA polycistron. Nat Genet. 2015 Jun 1. doi: 10.1038/ng.3321. \[Epub ahead of print\] PubMed PMID: 26029871.](#)

[Danilo Maddalo, Eusebio Manchado, Carla P. Concepcion, Ciro Bonetti, Joana A. Vidigal, Yoon-Chi Han, Paul Ogrodowski, Alessandra Crippa, Natasha Rekhtman, Elisa de Stanchina, Scott W. Lowe, and Andrea Ventura. In vivo engineering of oncogenic chromosomal rearrangements with the CRISPR/Cas9 system. Nature. 2014 Oct 22.](#)

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People



Andrea Ventura, MD, PhD

- Cancer biologist Andrea Ventura studies non-coding RNAs in cancer and development
- MD, Catholic University of Rome (Italy)
- PhD, European Institute of Oncology (Milan Italy), Open University (London, UK)
- Postdoctoral, Center for Cancer Research, Massachusetts Institute of Technology (Cambridge, MA)

[!\[\]\(eafc244b53721dd1ec133f0772f70fc7_img.jpg\) venturaa@mskcc.org](mailto:venturaa@mskcc.org)

Email Address

[!\[\]\(950a62bbddad88d64435fd35607dfc42_img.jpg\) 646-888-3068](tel:646-888-3068)

Office Phone

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Andrea Ventura



Ylenia Cendon Florez

Research Scholar

Lab

Alumni

Lab Affiliations

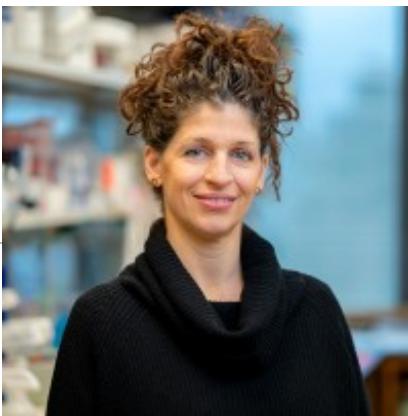
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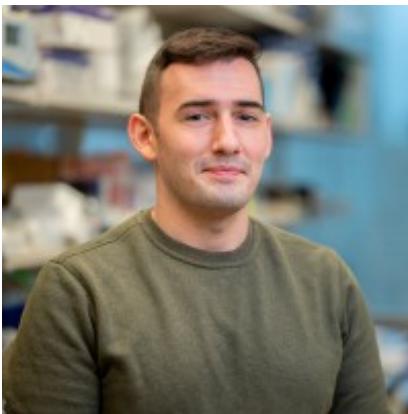
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GSK Graduate Student



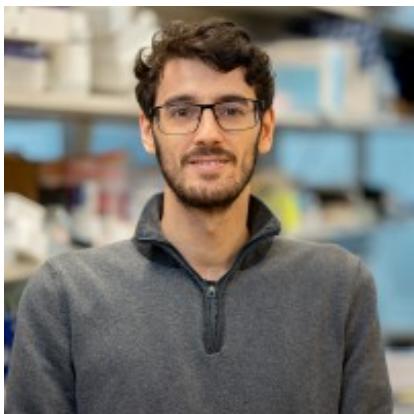
Chiara Mastroleo
Research Technician, Sr.



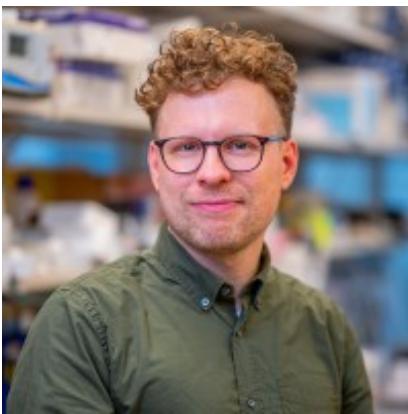
Jayden McDonald
MSK Bridge Program Scholar



Mateusz Ozimek
Research Technician



Davide Pradella
Research Associate



Moritz Weigl
Research Scholar

To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit [Resources for Postdocs](#)

Career Opportunities

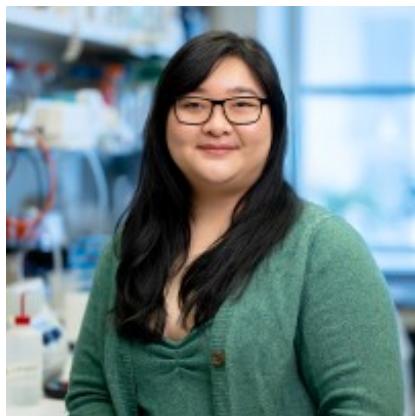
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Research Technician position

We are looking for a research technician to help our investigations of the roles of non coding RNAs in cancer and development.

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Get in Touch

[!\[\]\(34b4f260a8587d2e97eeaee361cc357b_img.jpg\) venturaa@mskcc.org](mailto:venturaa@mskcc.org)

Lab Head Email

[!\[\]\(6605b201d6f14d9b3bcb8ab5f274d107_img.jpg\) 646-888-3068](tel:646-888-3068)

Office Phone

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Office Fax

[!\[\]\(e8fb589d58dad1692debababa5e928b6_img.jpg\) 646-888-3069](tel:646-888-3069)

Melissa Yao

GSK Graduate Student

Lab Phone

[!\[\]\(4688aadfd656ded00cd6bdfae55089a9_img.jpg\) Like the Ventura Lab on Facebook](#)

Disclosures

Members of the MSK Community 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. These activities outside of MSK further our mission, provide productive collaborations, and promote the practical application of scientific discoveries.

MSK requires doctors, faculty members, and leaders 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. Not all disclosed interests and relationships present conflicts of interest. MSK reviews all disclosed interests and relationships to assess whether a conflict of interest exists and whether formal COI management is needed.

Andrea Ventura discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

The information published here is a complement to other publicly reported data and is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are categorized by organizations that publish such data.

This page and data include information for a specific MSK annual disclosure period (January 1, 2024 through disclosure submission in spring 2025). This data reflects interests that may or may not still exist. This data is updated annually.

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