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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.venturalaboratory.com.

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Research Projects



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

[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., Ogradowski 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, Ogradowski 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 Ogradowski, 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.](#)

[Concepcion CP, Han YC, Mu P, Bonetti C, Yao E, D'Andrea A, Vidigal JA, Maughan WP, Ogradowski P, Ventura A. Intact](#)


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People



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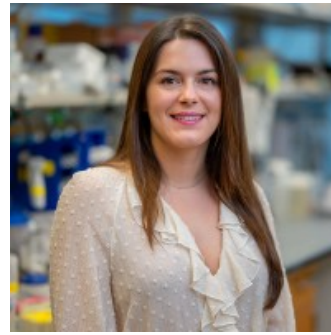
Ogrodowski	Wu	Kannan	Postdoctoral Fellow, Jay Shendure Lab, University of Washington, Seattle, WA
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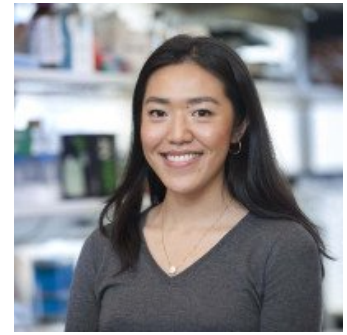
Turgut Dogruluk
Postdoctoral Fellow



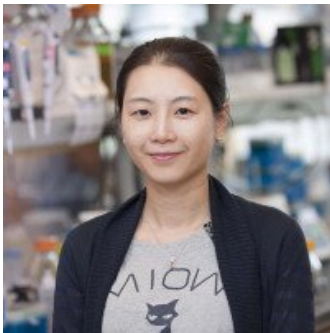
Andrea Ventura



**Ylenia Cendon
Florez**
Research Scholar



**Rui
Gao**
Patent Law Clerk at Arnold
and Porter Kaye Scholer
LLP, Washington, DC



Kim Huensuk
Research Fellow



**Ji Eun
Lee**
Postdoc



Chiara Mastroleo
Research Technician, Sr.

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

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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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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.

Andrea Ventura discloses the following relationships and financial interests:

Editas

Equity

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This page and data include information for a specific MSK annual disclosure period (January 1, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

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