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# The Liang Deng Lab

## ABOUT US

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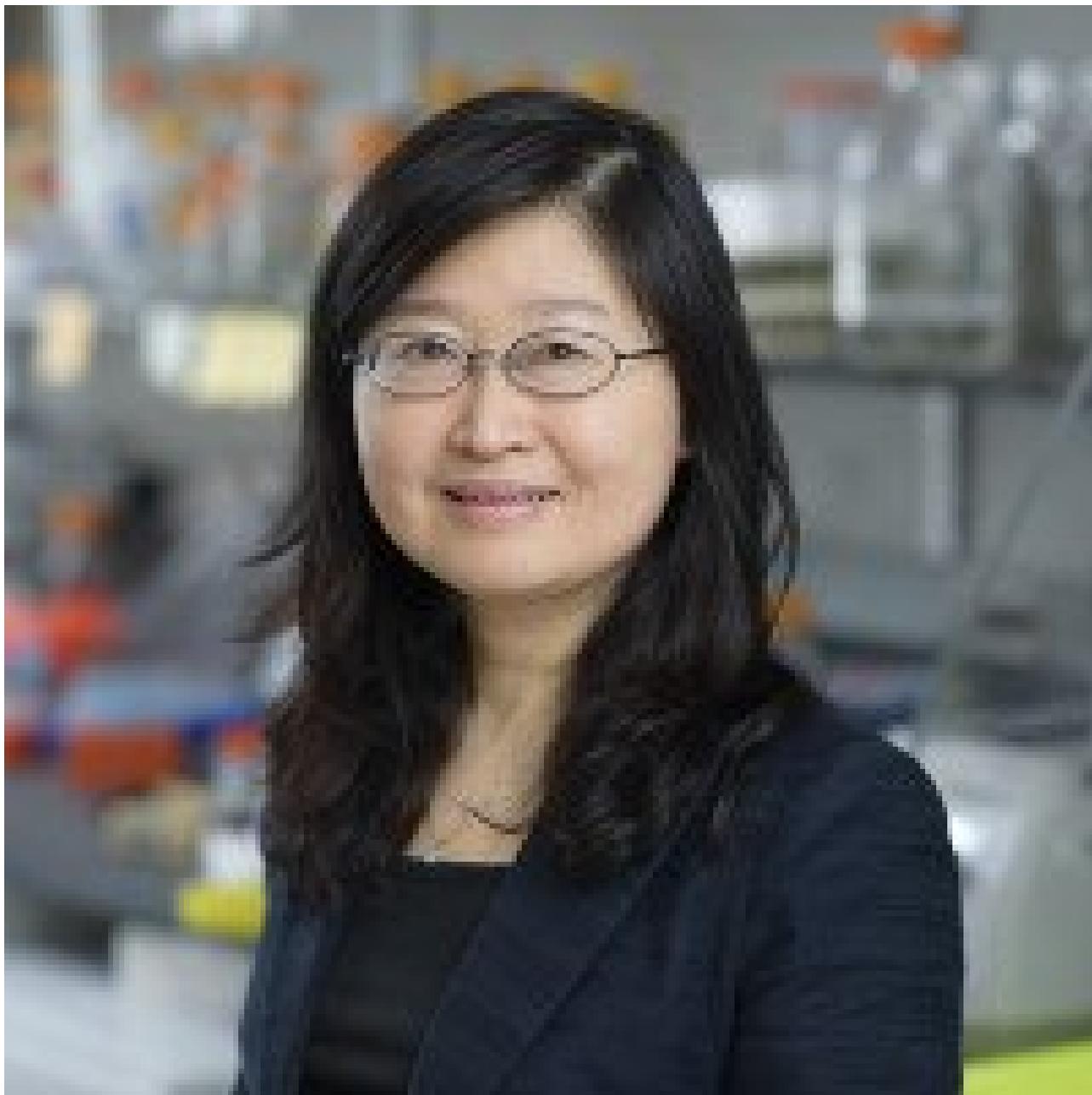
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## FOR THE MEDIA



Liang Deng, MD, PhD

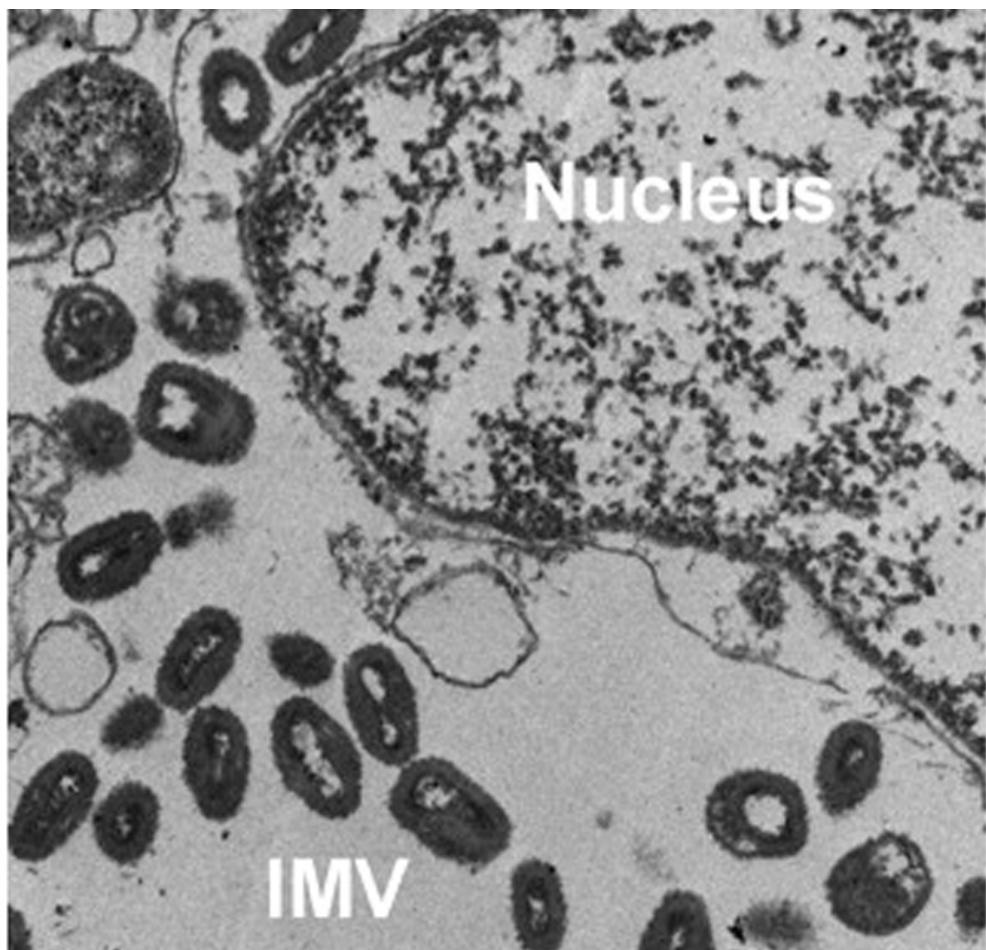
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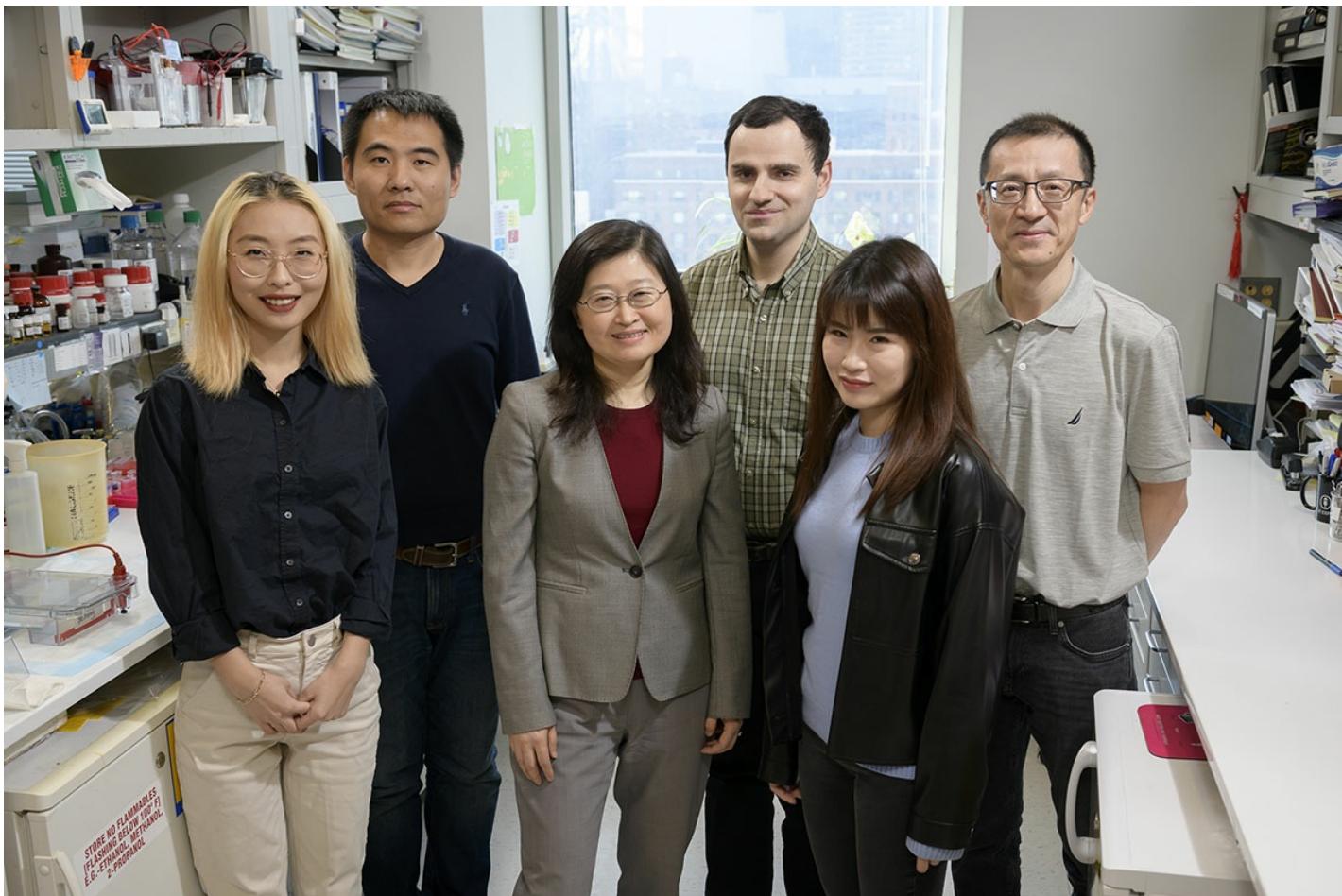
Our laboratory is focused on understanding how poxviruses are detected by the host innate immune sensing mechanisms and how poxviruses evade host antiviral responses. We are also interested in the development of poxvirus-based oncolytic and immunotherapy for cancers including melanoma.

[View Lab Overview \(https://www.mskcc.org/research-areas/labs/liang-deng/overview\)](https://www.mskcc.org/research-areas/labs/liang-deng/overview)

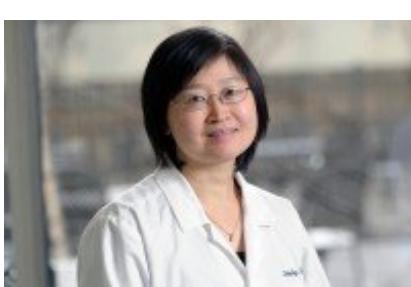
## Research Projects

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## Featured News



### [At Work: Physician-Scientist Liang Deng](#)

Physician-scientist Liang Deng cares for patients with melanoma and other skin cancers, and also conducts innovative research on poxviruses.

### [Imagination to Discovery](#)

Three emerging investigators are tackling the mysteries of biology and cancer at Memorial Sloan Kettering.

## Publications Highlights

Yang, N., Wang, Y., Dai, P., Li, T., Zierhut, C., Tan, A., Zhang, Z., Pan, H., Li, Z., Ordureau, A., Xiang, J.Z., Hendrickson, R.C., Funabiki H., Chen, Z., Deng, L. (2023) Vaccinia E5 is a major inhibitor of the DNA sensor cGAS. *Nat Commun*, 14(1):2898. doi: 10.1038/s41467-023-38514-5 (PMC10201048).

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Yang, N., #, Wang, Y., #, Liu, S., Tariq, S.B., Luna, J. M., Mazo G., Tan, A., Zhang, T., Wang, J., Yan, W., Choi, J., Rossi, A., Xiang, J.Z., Rice, C. M., Merghoub, T., Wolchok, J. D., and Deng, L. (2023) OX40L-expressing recombinant modified vaccinia virus Ankara induces potent antitumor immunity via reprogramming Tregs. *Journal Experimental Medicine* 220(8):e20221166. Epub 2023 May 5. PMID: 37145142.

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Gu, L., Lin, E., Liu, S., Yang, N., Kurtansky, N., Neumann, N., Stoll, J., Lezcano, C., Pulitzer, M., Noor, S., Markova, A., Rossi, A., Dickson, M., and Deng L. (2023) Efficacy of Immunotherapy with Combination of Cryotherapy and Topical Imiquimod for Treatment of Kaposi Sarcoma. *Journal of Medical Virology*, 95(1):e28396. PMID: 36504005.

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Yang, N., Garcia, A., Meyer, Tuschl T., Merghoub, T., Wolchok, J.D., and L. Deng (2022) Heat-inactivated modified vaccinia virus Ankara boosts Th1 cellular and humoral immunity as a vaccine adjuvant. *npj Vaccines* (2022) 7(1):120. PMID: 36261460. <https://doi.org/10.1038/s41541-022-00542-5> .

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Yang, N., Luna J.M., Dai, P., Wang, Y., Rice, C.M., and L. Deng. (2022). Lung type II alveolar epithelial cells collaborate with CCR2<sup>+</sup> inflammatory monocytes in host defense against poxvirus infection. *Nature Communications* 13(1):1671. PMID: 35351885. PMCID: PMC896475.

[View All Publications](#)

# People



## Liang Deng, MD, PhD

- Physician-scientist Liang Deng studies poxvirus interface with the immune system and the development of poxviruses as oncolytic and immunotherapy for cancers.

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## Members



Liang Deng

Lab Head



Ning Yang

Senior Research Scientist

## Lab Affiliations

# Open Positions

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

## Get in Touch

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## 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.

Liang Deng discloses the following relationships and financial interests:

- Immunogenesis, Inc.
  - Intellectual Property Rights
- Imvaq Therapeutics

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.

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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.

Learn more about MSK's COI policies [here](#) . For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at [ecoi@mskcc.org](mailto:ecoi@mskcc.org) .

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