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The Liang Deng Lab

ABOUT US

[Our mission, vision & core values](#)

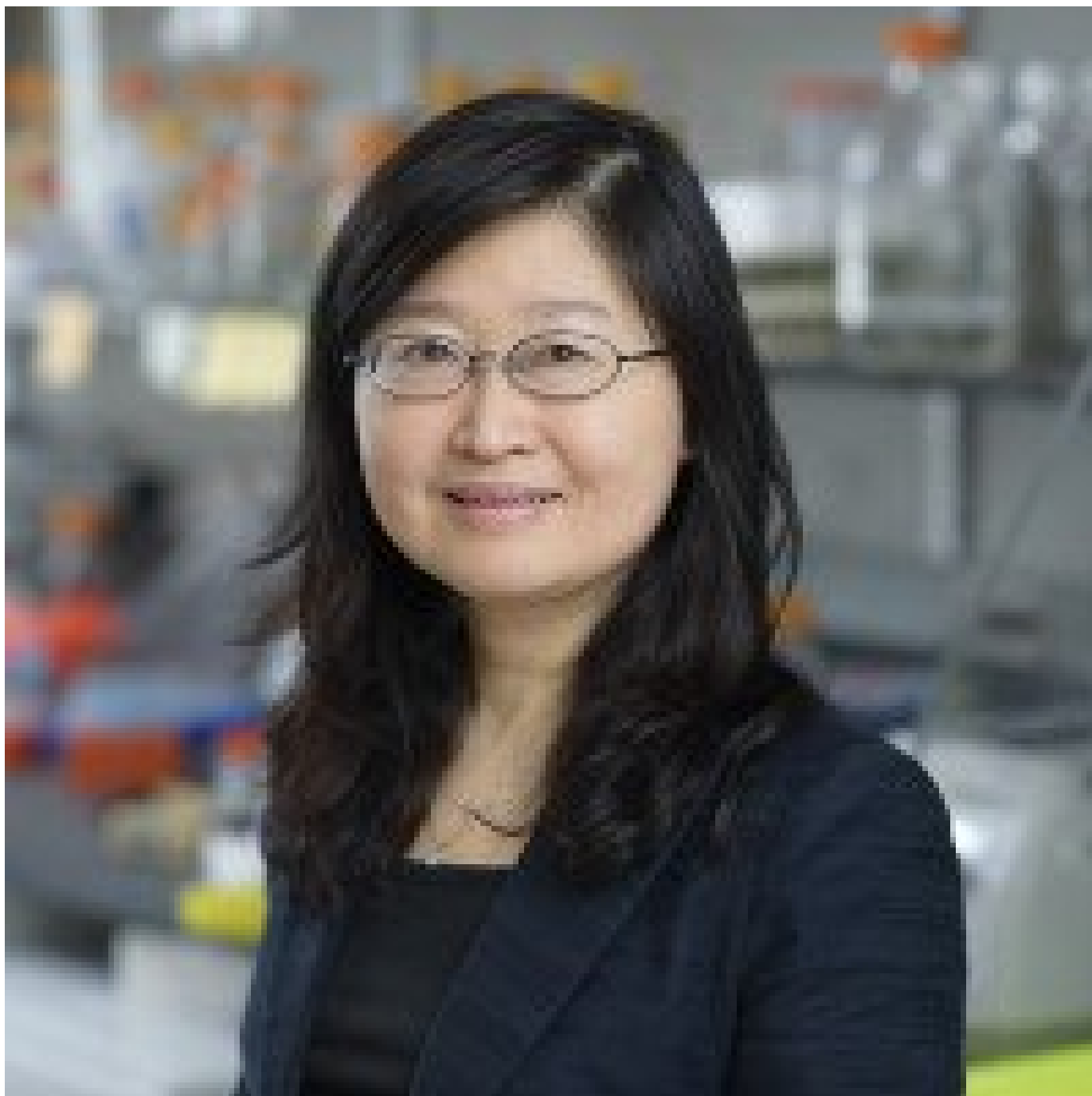
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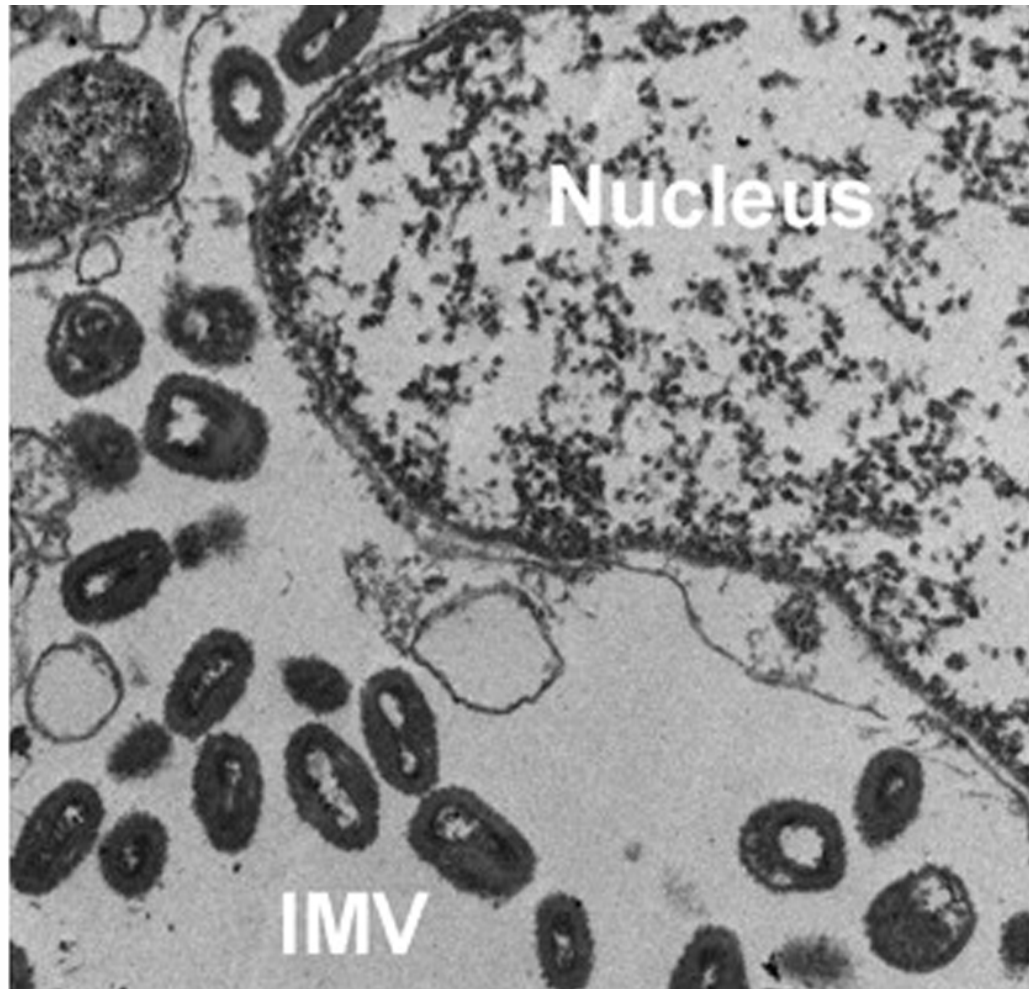
Liang Deng, MD, PhD

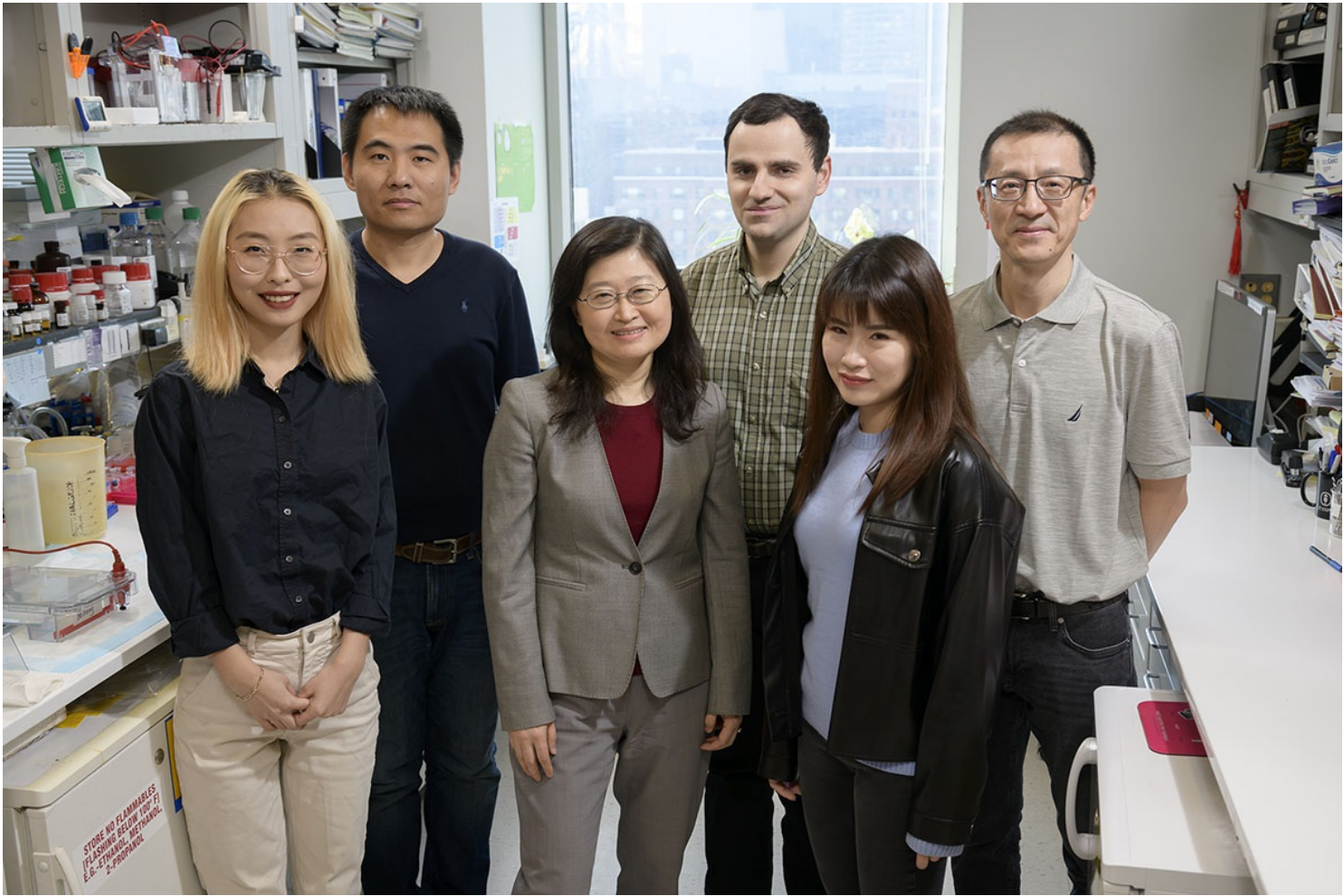
Our laboratory is focused on understanding how poxviruses are detected by the host innate immune sensing mechanisms and how poxviruses evade host antiviral responses. We are also interested in the development of poxvirus-based oncolytic and immunotherapy for cancers including melanoma.

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Research Projects

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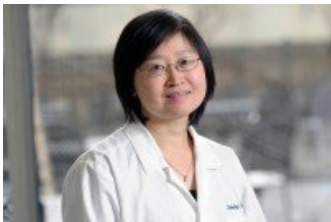




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Featured News



[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).

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.

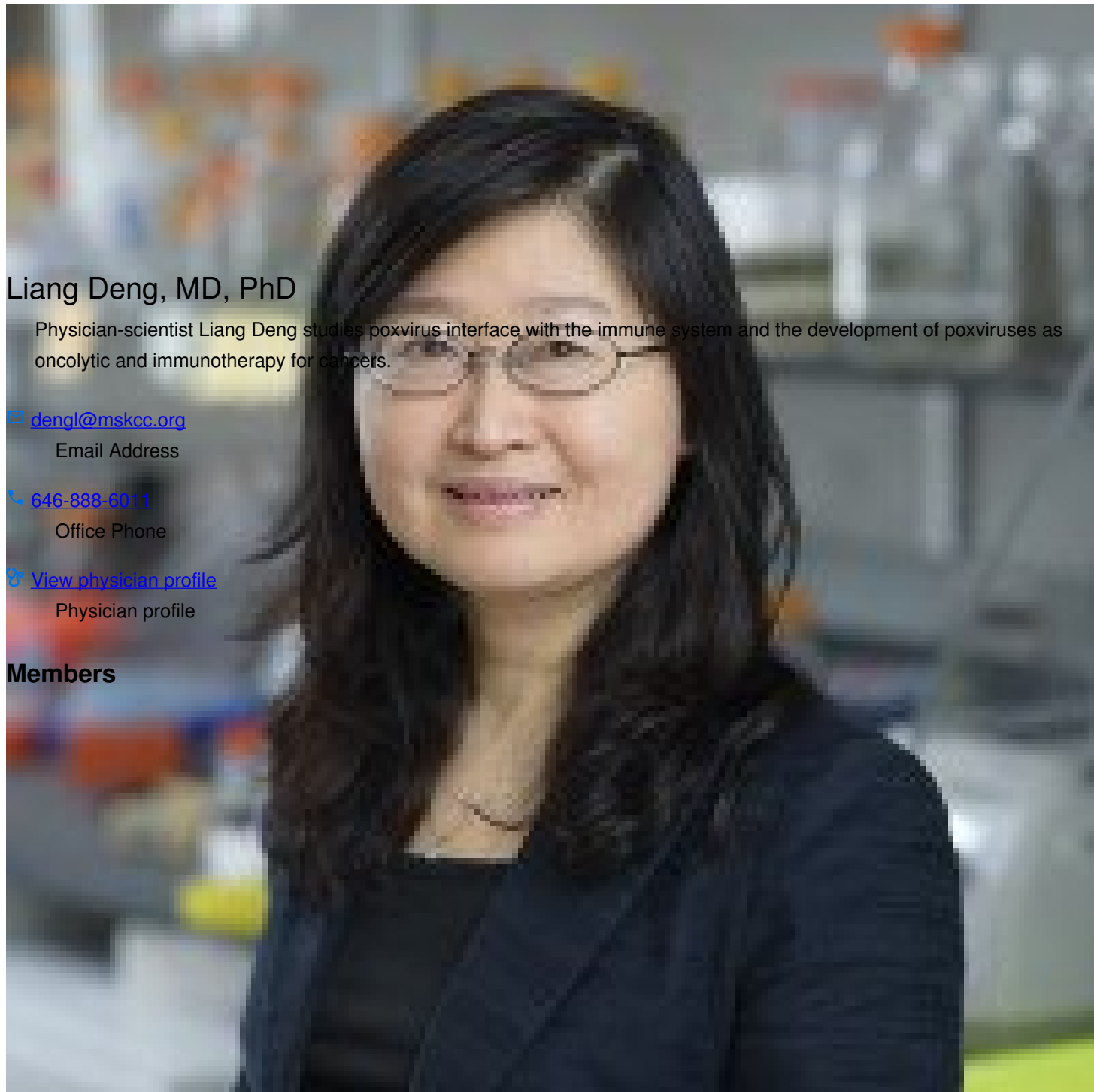
Gu, L., Lin, E., Liu, S., Yang, N., Kurtansky, N., Neumann, N., Stoll, J., Lezcano, C., Pulitzer, M., Noor, S., Markova, A., Rossi, A., Dickson, M., and Deng L. (2023) Efficacy of Immunotherapy with Combination of Cryotherapy and Topical Imiquimod for Treatment of Kaposi Sarcoma. *Journal of Medical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

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>.

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⁺ inflammatory monocytes in host defense against poxvirus infection. *Nature Communications* 13(1):1671. PMID: 35351885. PMCID: PMC896475.


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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.

 dengl@mskcc.org
Email Address

 [646-888-6011](tel:646-888-6011)
Office Phone

 [View physician profile](#)
Physician profile

Members

Ning Yang
Senior Research Scientist

Lab Alumni
+

Lab Affiliations
+

Get in Touch

✉ dengl@mskcc.org

Lab Head Email

☎ [646-888-6011](tel:646-888-6011)

Office Phone

☎ [646-888-2744](tel:646-888-2744)

Office Fax

☎ [212-639-7144](tel:212-639-7144)

Lab Phone

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.

Liang Deng discloses the following relationships and financial interests:

Immunogenesis, Inc.

Intellectual Property Rights

Imvaq Therapeutics

Equity; Intellectual Property Rights; Professional Services and Activities

The information published here 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, 2022 through disclosure submission in spring 2023). 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.

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