

# CURRICULUM VITAE

Yoshitaka Kimura

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## Contact Information:

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School: Yale School of Medicine

## Education:

04/2007 - 03/2011 BS, The University of Tokyo, Pharmaceutical Sciences, Bunkyo City, Tokyo, Japan  
04/2011 - 03/2013 MS, The University of Tokyo, Pharmaceutical Sciences, Bunkyo City, Tokyo, Japan  
04/2013 - 03/2016 PhD, The University of Tokyo, Pharmaceutical Sciences, Bunkyo City, Tokyo, Japan

## Career/Academic Appointments:

04/2016 - 03/2018 Project Researcher, Molecular Immunology, Institute of Industrial Science, The University of Tokyo, Shibuya City, Tokyo, Japan  
05/2018 - 05/2022 Postdoctoral Fellow, Immunobiology, Yale School of Medicine, New Haven, CT  
05/2022 - 05/2026 Associate Research Scientist, Immunobiology, Yale School of Medicine, New Haven, CT

## Professional Honors & Recognition:

### International/National/Regional

2012 Graduate Program for Leaders in Life Innovation, The University of Tokyo Life Innovation Leading Graduate School  
2014 Research Fellowship for Young Scientists (DC2), Japan Society for the Promotion of Science  
2014 Traveling award, 9th Annual meeting of Chinese Society for Immunology  
2017 Kishimoto Travel Awards, The 5th Annual Meeting of the International Cytokine and Interferon Society  
2020 JSPS Overseas Research Fellowships, Japan Society for the Promotion of Science

**Other**

2016	LEGEND Travel Award 2016, Biolegend / Tomy Digital Biology
2018	Postdoctoral Fellowship, The Uehara Memorial Foundation
2023	Poster award, New England Immunology Conference
2024	Trainee Abstract Award, The American Association of Immunologists
2025	Encouragement Award, United Japanese researchers Around the world

**Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:****International/National**

1. "Dectin-2 selectively suppresses liver metastasis by facilitating the uptake of cancer cells by Kupffer cells". 11th Annual meeting of Chinese Society for Immunology, Hefei, Anhui, November 2016. (Oral Presentation)
2. "The innate immune receptor Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis". The 3rd Symposium of Max Planck-The University of Tokyo Center for Integrative Inflammalogy, Berlin, BE, November 2016. (Oral Presentation)

**Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:****International/National**

1. **Kimura Y**, Marimo Sato-Matsushita, Hideaki Tahara, Tatsuro Irimura, Yoshihiro Hayakawa. IL-17-producing NK1.1- CD27+ gdT cells promote tumor malignant progression by inducing inflammatory microenvironment. Annual Meeting of the Japanese Society for Immunology 2013, Kobe, Hyogo, December 2012. (Oral Presentation)
2. **Kimura Y**, Marimo Sato-Matsushita, Takayuki Yoshimoto, Hideaki Tahara, Ikuo Saiki, Tatsuro Irimura, Yoshihiro Hayakawa. Cross-talk between host and cancer cells amplify inflammation triggered by gdT17 cells to promote malignant progression. The 72nd Annual Meeting of the Japanese Cancer Association, Yokohama, Kanagawa, October 2013. (Oral Presentation)
3. **Kimura Y**, Marimo Sato-Matsushita, Takayuki Yoshimoto, Hideaki Tahara, Ikuo Saiki, Tatsuro Irimura, Yoshihiro Hayakawa. Cancer immune escalation process triggered by activation of gdT17 cells through MyD88/IL-23 cascade. Annual Meeting of the Japanese Society for Immunology 2013, Chiba, Chiba, December 2013. (Oral Presentation)
4. **Kimura Y**, Shiho Chiba, Hiroaki Ikushima, Hiroshi Ueki, Hideyuki Yanai, Sho Hangai, Junko Nishio, Hideo Negishi, Tomohiko Tamura, Shinobu Saijo, Yoichiro Iwakura, Tadatsugu Taniguchi. Recognition of tumor cells by Dectin-1 orchestrates innate immune cells for anti-tumor responses. 2014 CSI Congress on Immunology, Jinan, Shandong, November 2014. (Oral Presentation)
5. **Kimura Y**, Junko Nishio, Hideo Negishi, Shinobu Saijo, Yoichiro Iwakura, Tadatsugu Taniguchi. Dectin-2 selectively suppresses liver metastasis of cancer through Kupffer cells. The 75th Annual Meeting of the Japanese Cancer Association, Yokohama, Kanagawa, October 2016. (Oral Presentation)
6. **Kimura Y**, Asuka Inoue, Sho Hangai, Shinobu Saijo, Hideo Negishi, Junko Nishio, Sho Yamasaki, Yoichiro Iwakura, Hideyuki Yanai, Tadatsugu Taniguchi. Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis. The 21st Annual Meeting of Japanese Association of Cancer Immunology, Chiba, Chiba, June 2017. (Oral Presentation)

7. **Kimura Y**, Asuka Inoue, Sho Hangai, Shinobu Saijo, Hideo Negishi, Junko Nishio, Sho Yamasaki, Yoichiro Iwakura, Hideyuki Yanai, Tadatsugu Taniguchi. Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis. The 26th Annual Meeting of the Japanese Association for Metastasis Research, Osaka, Osaka, July 2017. (Oral Presentation)
8. **Kimura Y**, Asuka Inoue, Sho Hangai, Shinobu Saijo, Hideo Negishi, Junko Nishio, Sho Yamasaki, Yoichiro Iwakura, Hideyuki Yanai, Tadatsugu Taniguchi. Dectin-2 suppresses liver metastasis through Kupffer cells in cooperation with MCL and distinctly from Dectin-1. The 75th Annual Meeting of the Japanese Cancer Association, Yokohama, Kanagawa, September 2017. (Oral Presentation)
9. **Kimura Y**, Asuka Inoue, Sho Hangai, Shinobu Saijo, Hideo Negishi, Junko Nishio, Sho Yamasaki, Yoichiro Iwakura, Hideyuki Yanai, Tadatsugu Taniguchi. The innate immune receptor Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis. The 5th Annual Meeting of the International Cytokine and Interferon Society, Kanazawa, Ishikawa, October 2017 - November 2017. (Oral Presentation)
10. **Kimura Y**, Chavan AR, Naomi Philip, Medzhitov RM. Proteostasis maintenance by macrophage trogocytosis. The New England Immunology Conference 2023, Falmouth, MA, December 2023. (Oral Presentation)
11. **Kimura Y**, Chavan AR, Naomi Philip, Medzhitov RM. Proteostasis maintenance by macrophage trogocytosis. CSHL Meeting, Protein Homeostasis in Health and Disease 2024, Cold Spring Harbor, NY, April 2024. (Oral Presentation)
12. **Kimura Y**, Chavan AR, Naomi Philip, Medzhitov RM. Proteostasis maintenance by macrophage trogocytosis. The Annual Meeting of The American Association of Immunologists, IMMUNOLOGY 2024, Chicago, IL, May 2024. (Oral Presentation)
13. **Kimura Y**, Chavan AR, Sato K, Scott Pope, Naomi Philip, Yao G, Insogna KL, Su X, Medzhitov RM. Proteostasis maintenance by macrophage trogocytosis. Gordon Research Conference "Phagocytes", Waterville Valley, NH, June 2025 - July 2025. (Oral Presentation)
14. **Kimura Y**, Chavan AR, Sato K, Scott Pope, Naomi Philip, Yao G, Rangavajhula A, Insogna KL, Su X, Medzhitov RM. Proteostasis maintenance by macrophage trogocytosis. HHMI Science Meeting, Ashburn, VA, October 2025. (Poster Presentation)

## Professional Service:

### Professional Organizations

#### *Yale Japanese Life Science Forum (Y-JLS)*

2025 - Present      Committee Member, Yale Japanese Life Science Forum (Y-JLS)

### Public Service / Media Presence

#### *Public Service*

2017      Author, Annual report, The Uehara Memorial Foundation  
 2025      Author, JSI Newsletter, Japanese Society for Immunology

## Bibliography:

### Peer-Reviewed Original Research

1. Chiba S, Ikushima H, Ueki H, Yanai H, Kimura Y, Hangai S, Nishio J, Negishi H, Tamura T, Saijo S, Iwakura Y, Taniguchi T. Recognition of tumor cells by Dectin-1 orchestrates innate immune cells for anti-tumor responses. *Elife* 2014, 3: e04177. [PMID: 25149452](#) , DOI: 10.7554/eLife.04177.
2. Hangai S, Ao T, Kimura Y, Matsuki K, Kawamura T, Negishi H, Nishio J, Kodama T, Taniguchi T, Yanai H. PGE2 induced in and released by dying cells functions as an inhibitory DAMP. *Proc Natl Acad Sci U S A* 2016, 113: 3844-9. [PMID: 27001836](#) , DOI: 10.1073/pnas.1602023113.
3. Kimura Y, Nagai N, Tsunekawa N, Sato-Matsushita M, Yoshimoto T, Cua DJ, Iwakura Y, Yagita H, Okada F, Tahara H, Saiki I, Irimura T, Hayakawa Y. IL-17A-producing CD30(+) V $\delta$ 1 T cells drive inflammation-induced cancer progression. *Cancer Sci* 2016, 107: 1206-14. [PMID: 27384869](#) , DOI: 10.1111/cas.13005.
4. Kimura Y, Inoue A, Hangai S, Saijo S, Negishi H, Nishio J, Yamasaki S, Iwakura Y, Yanai H, Taniguchi T. The innate immune receptor Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis. *Proc Natl Acad Sci U S A* 2016, 113: 14097-14102. [PMID: 27872290](#) , DOI: 10.1073/pnas.1617903113.
5. Yanai H, Chiba S, Hangai S, Kometani K, Inoue A, Kimura Y, Abe T, Kiyonari H, Nishio J, Taguchi-Atarashi N, Mizushima Y, Negishi H, Grosschedl R, Taniguchi T. Revisiting the role of IRF3 in inflammation and immunity by conditional and specifically targeted gene ablation in mice. *Proc Natl Acad Sci U S A* 2018, 115: 5253-5258. [PMID: 29712834](#) , DOI: 10.1073/pnas.1803936115.
6. Kimura Y, Negishi H, Matsuda A, Endo N, Hangai S, Inoue A, Nishio J, Taniguchi T, Yanai H. Novel chemical compound SINCRO with dual function in STING-type I interferon and tumor cell death pathways. *Cancer Sci* 2018, 109: 2687-2696. [PMID: 29981256](#) , DOI: 10.1111/cas.13726.
7. Hangai S, Kawamura T, Kimura Y, Chang CY, Hibino S, Yamamoto D, Nakai Y, Tateishi R, Oshima M, Oshima H, Kodama T, Moriya K, Koike K, Yanai H, Taniguchi T. Orchestration of myeloid-derived suppressor cells in the tumor microenvironment by ubiquitous cellular protein TCTP released by tumor cells. *Nat Immunol* 2021, 22: 947-957. [PMID: 34239121](#) , DOI: 10.1038/s41590-021-00967-5.
8. Meizlish M, **Kimura Y** , Pope S, Matta R, Kim C, Philip N, Meyaard L, Gonzalez A, Medzhitov R. Mechanosensing regulates tissue repair program in macrophages. *Science Advances* 2024, 10: eadk6906. [PMID: 38478620](#) , [PMCID: PMC10936955](#) , [DOI: 10.1126/sciadv.adk6906](#) .

### Peer-Reviewed Reviews, Practice Guidelines, Standards, and Consensus Statements

1. Hangai S, Kimura Y, Taniguchi T, Yanai H. Signal-transducing innate receptors in tumor immunity. *Cancer Sci* 2021, 112: 2578-2591. [PMID: 33570784](#) , DOI: 10.1111/cas.14848.

### Chapters

1. Hangai S, Kimura Y, Taniguchi T, Yanai H. Innate immune receptors in the regulation of tumor immunity. *Oncoimmunology: A Practical Guide for Cancer Immunotherapy* 2017; 407-427.