

Macropinocytosis in PI3K-mTORC1 pathway

Speaker: **Sei YOSHIDA, PhD**

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Monday, 17th August, 2020 4:00 PM -5:00 PM

Taniguchi Memorial Hall (1F Integrated Life Science Bld)



Pre-registration

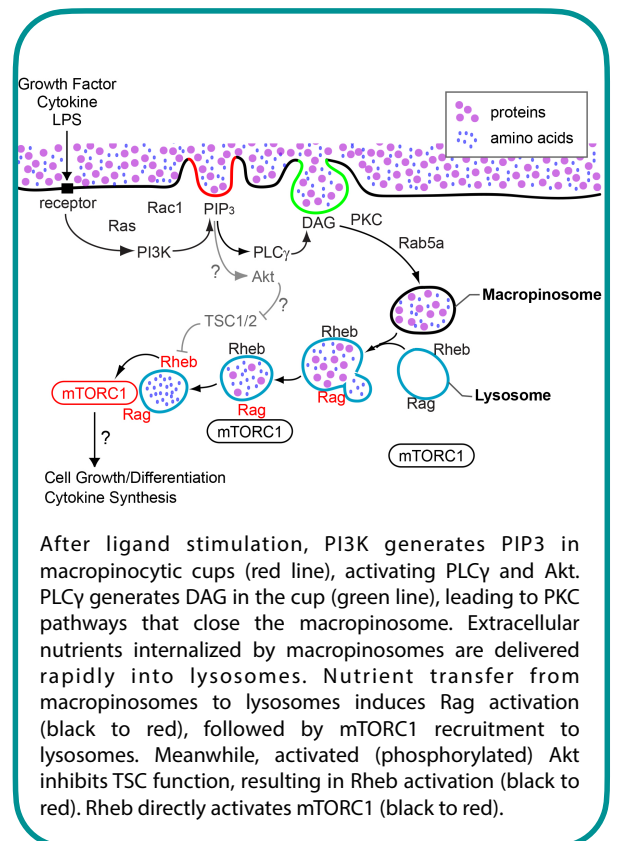
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My research career has been devoted to understanding macropinocytosis, a large-scale endocytosis (1998-2006 at the Institute of Medical Sciences, the University of Tokyo, 2006-2020 at the University of Michigan Medical School, USA). A series of my paper showed that **macropinocytosis regulates PI3K-mTORC1 pathway**, one of the main signaling pathways of cell growth, suggesting that macropinocytosis has critical roles in cell metabolism (See References and Figure). Currently, as a PI, I am trying to develop this idea to the understanding of human health and disease by establishing three different projects. Thus, my lab is going to investigate the mechanism/role of macropinocytosis

- 1) in immunity focusing on macrophage,
- 2) in breast cancer development,
- 3) in **SARS-CoV-2 cell entry**.

The purposes of this seminar are to talk about my past research accomplishments and introduce the future directions. **This would be also an advertisement to recruit good postdocs from an excellent research institute such as RIMD.** If you are interested in my research/lab, please contact me (seiyoshi0327@yahoo.co.jp; https://www.researchgate.net/profile/Sei_Yoshida).

References: *Journal of Cell Science*. 2018. 131: jcs220517
Cellular and Molecular Life Sciences. 2018. 75: 1227-1239
Journal of Leukocyte Biology. 2017. 101: 683-692
Journal of Cell Biology. 2015. 211: 159-172.



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The seminar will be held in English.

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