

MICROBIOLOGY 204
T CELL RECEPTOR SIGNAL TRANSDUCTION
October 15, 2018
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*** Required reading**

General Reviews:

1. Chakraborty, A.K., and Weiss, A. 2014. Insights into the initiation of TCR signaling. *Nature Immunol.* 15:798-807.
2. ***Gaud, G., Lesourne, R., and Love, P. 2018. Regulatory mechanisms in T cell receptor signaling. *Nature Rev. Immunol.* 18:485-497.**

T Cell Polarization and the Immunological Synapse:

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Mechanisms of TCR triggering:

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membrane binding of the CD3epsilon cytoplasmic tyrosine-based motif. *Cell* 135:702-713.

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16. Sibener, L.V., et al. 2018. Isolation of a structural mechanism for uncoupling T cell receptor signaling from peptide-MHC binding. *Cell.* 174:672-687

Protein Tyrosine Kinases and Phosphatases Involved in T Cell Antigen Receptor Signal Transduction:

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Tec Family PTKs:

Review

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Adaptors and PTK substrates:

Review:

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GEMs (Glycolipid-enriched microdomains), Lipid Rafts, or DIGs

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The Phosphatidylinositol Pathway in T Cells:

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Activation of Ras, Rac and Cytoplasmic Serine/Threonine Protein Kinases:

Review:

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