

Reading list: Mechanisms of Basophil and Mast Cell Function

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1. Brown, J. M., T. M. Wilson, and D. D. Metcalfe. 2007. The mast cell and allergic diseases: role in pathogenesis and implications for therapy. *Clin Exp Allergy* 38:4-18. PMID:18031566
2. Peavy, R. and D. D. Metcalfe. 2008. Understanding the mechanisms of anaphylaxis. *Curr Opin Allergy Clin Immunol* 8: 310-315. PMID:18596587
3. Metcalfe, D. D. 2008. Mast cells and mastocytosis. *Blood* 112:946-956. PMID:18684881
4. Gilfillan, A. M., R. D. Peavy and D. D. Metcalfe. 2009. Amplification mechanisms for the enhancement of antigen-mediated mast cell activation. *Immunol Res* 43:15-24. PMID:18827981
5. Metcalfe, D.D., R. D. Peavy and A. M. Gilfillan. 2009. Mechanisms of mast cell signaling in anaphylaxis. *J Allergy Clin Immunol* 124: 639-646; quiz 647-648. PMID:19815110
6. Stone, K. D., C. Prussin and D. D. Metcalfe. 2010. IgE, mast cells, basophils, and eosinophils. *J Allergy Clin Immunol* 125:S73-80. PMID:20176269
7. Ito, T., D. Smrž, M. Y. Jung, G. Bandara, A. Desai, Š. Smržová, H. S. Kuehn, M. A. Beaven, D. D. Metcalfe, and A. M. Gilfillan. 2012. Stem cell factor programs the mast cell activation phenotype. *J Immunol* 188: 5428-5437. PMID: 22529299
8. Meyer, J., A. M. Gorbach, W-M Liu, N. Medic, M. Young, C. Nelson, S. Arceo, A. Desai, D. D. Metcalfe, and H. D. Komarow. 2013. Mast cell dependent vascular changes associated with the acute allergic response. *PLOS ONE* 2013;8(2):e56773.doi: 10.1371/journal.pone.0056773. Epub 2013 Feb 22. PMID: 23451084
9. Medic, M., A. Desai, A. Olivera, J. Rivera, L. Birnbaumer, J. Abramovitz, M. A. Beaven, A. M. Gilfillan, and D. D. Metcalfe. 2013. Knockout of the *Trpc1* gene reveals that TRPC1 can promote recovery from anaphylaxis by negatively regulating mast-cell TNF-alpha production. *Cell Calcium* 53:315-326. PMID: 23489970
10. Cruse, G., M. A. Beaven, P. Bradding, A. M. Gilfillan, and D. D. Metcalfe. 2013. A truncated splice-variant of *FcepsilonR1beta* is critical for microtubule formation and degranulation in mast cells. *Immunity* 38:906-917. PMID: 23643722