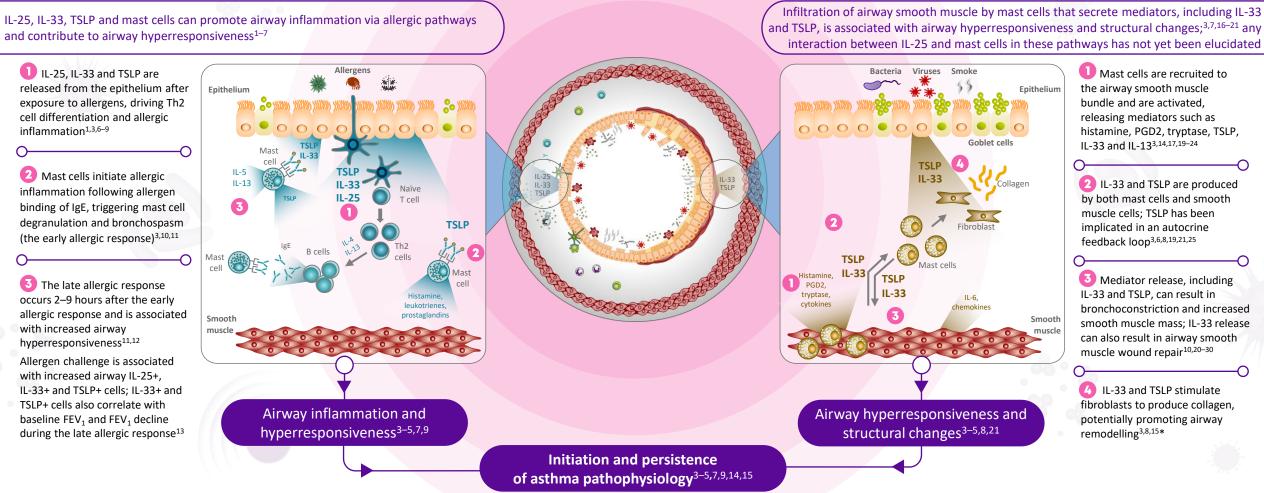
## IL-25, IL-33, TSLP AND THE MULTIPLE ROLES OF MAST CELLS IN ASTHMA Together, IL-25, IL-33, TSLP and mast cells play important roles in allergic T2 and beyond T2 pathways

## **ALLERGIC T2 PATHWAYS**

## **BEYOND T2 PATHWAYS**





itive; FEV1, forced expiratory volume in 1 second; IgE, immunoglobulin E; IL, interleukin; PGD2, prostaglandin D2; T2, type 2; Th, T helper; TSLP, thymic stromal lymphopoie

1. Allakhverdi Z, et al. J Exp Med 2007;204:253–258; 2. Allakhverdi Z, et al. J Allergy Clin Immunol 2009;123:958–960; 3. Gauvreau GM, et al. Expert Opin Ther Targets 2020;24:777–792; 4. Busse WW. Chest 2010;138(Suppl. 2):45–105; 5. Comberiati P, et al. Immunol Allergy Clin Nath Med 2007;204:253–258; 2. Allakhverdi Z, et al. J Exp Med 2007;204:253–258; 2. Allakhverdi Z, et al. J Allergy Clin Immunol 2009;123:958–960; 3. Gauvreau GM, et al. Expert Opin Ther Targets 2020;24:777–792; 4. Busse WW. Chest 2010;138(Suppl. 2):45–105; 5. Comberiati P, et al. Immunol Allergy Clin Nath Med 2002;126:93–704; 10(3):43:221–233; 1. Allergy Clin Immunol 2015;163:33–1344; 10. Galli S], stain. Nat Med 2005;45:445–454;41. 3. Wang W, et al. J Immunol 2012;1221–2231; 1. Allergy Clin Immunol 2019;129:497–9049; 1. 5. Gouverau GM, et al. Eur Respir J 2007;55:2000260; 8. Bartemes KR, Kita H. Clin Immunol 2012;143:221–233; 1. Allergy Clin Immunol 2019;129:497–9049; 1. 5. Gouverau GM, et al. Eur Respir J 2007;29:827–830; 1. Alter Q, et al. J Altergy Clin 2019;129:497–9049; 1. 5. Gouverau GM, et al. Hergy 2015;70:556–567; 22. Brightling CE, et al. N Engl J Med 200;346:1699–1705; 23. Stut V, et al. Int Mol Sci 2018;139:036; 24. Woodman L, et al. J Immunol 2008;181:5001–5007; 25. Comeau MR, Ziegler SF. Mucosal Immunol 2010;131:38–147; 26. Saunders R, et al. J Immunol 2011;187:609–6107; 29. Stuff He, et al. I Thorax 2006;61:657–662; 30. Moir LM, et al. J Allergy Clin Immunol 2011;187:609–6107; 29. Stuff He, et al. J Immunol 2011;187:609–6107; 29. Stuff



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