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Inflammatory Mediators Mediate Airway Smooth Muscle Contraction through a GPCR-TMEM16A-VDCC Axis and Contribute to Bronchial Hyperresponsiveness in Asthma

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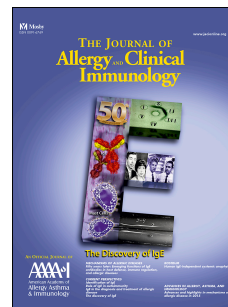
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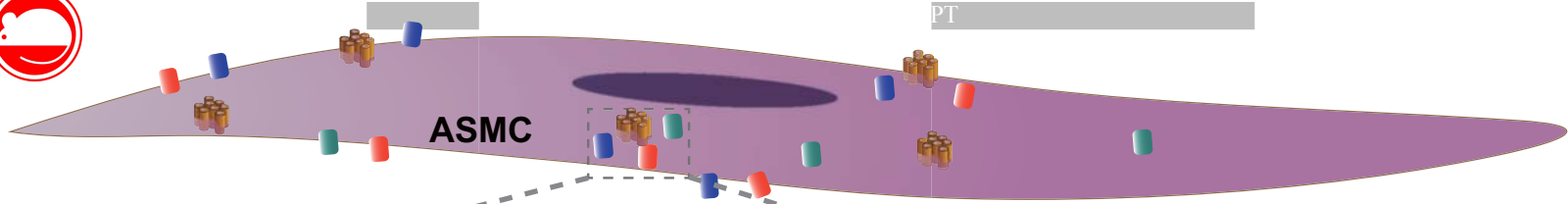
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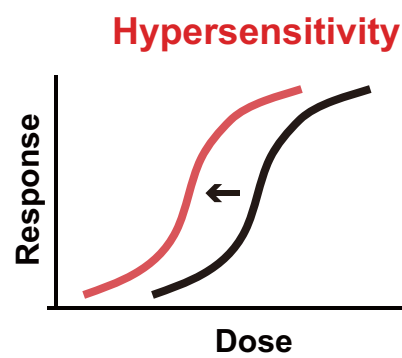
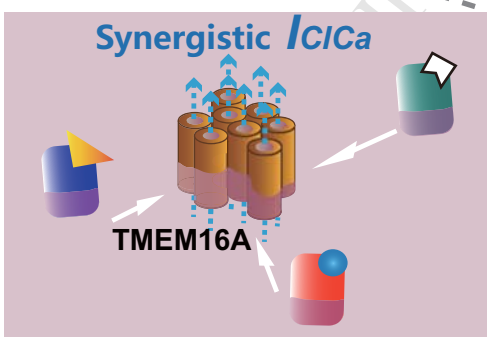
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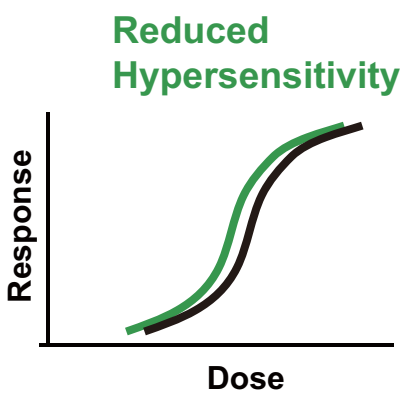
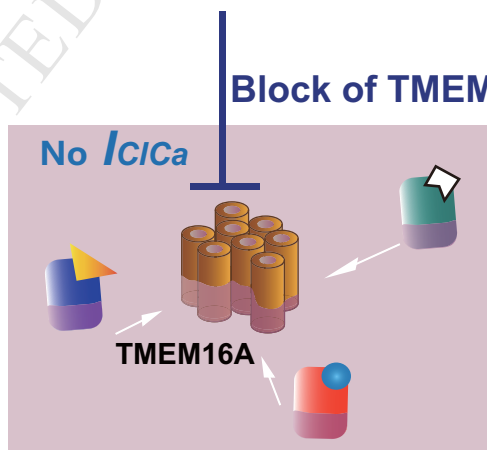
Inflammation



Single constrictor

Mutiple constrictors

- TMEM16A
- GPCRs
- ACh
- Inflammatory mediators such as 5-HT, histamine, U46619 and LTD₄



5-HT: 5-hydroxytryptamine; ACh: Acetylcholine; ASMC: Airway smooth muscle cell; GPCRs: G-protein-coupled receptors; *I*_{CICa}: Ca²⁺-activated Cl⁻ current; LTD₄: Leukotriene D₄

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