

# **Chronic Spontaneous Urticaria: Autoantibody to Fc $\epsilon$ R1 $\alpha$ and hIgE**

Ping Gao, MD

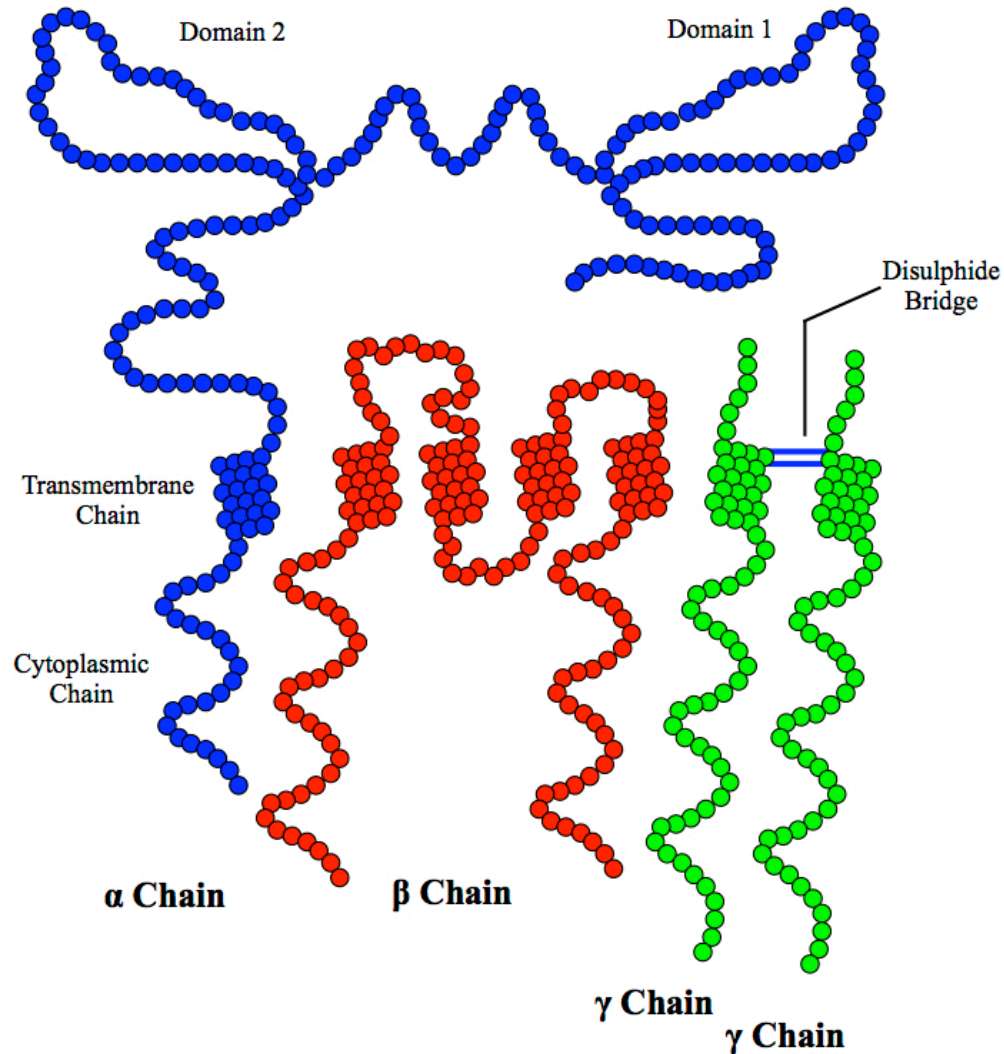
# CIU and CSU

- Chronic idiopathic urticaria (CIU)
- Chronic spontaneous urticaria (CSU)
  - not an allergic disease and does not involve IgE
  - affect 0.5% - 1% world population
  - 50% of patient cannot be treated with high dose (4x regular doses) of H1-antihistamines

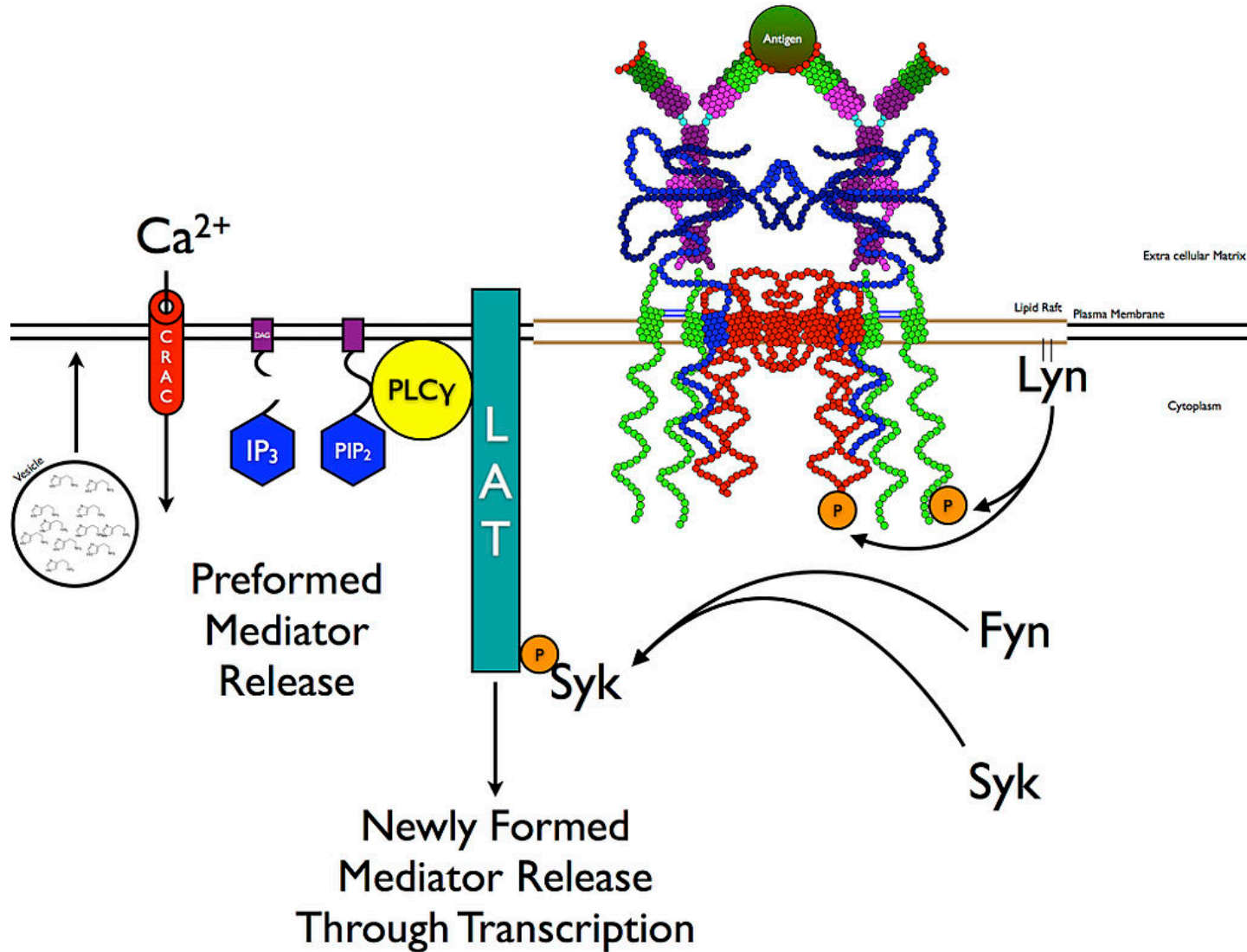
Xolair (omalizumab)



# The structure of the FcεR1 (IgE) receptor



# Summary of IgE/FcεR1 receptor mediated downward signal cascade



# Anti-FcεR1α Autoantibody

