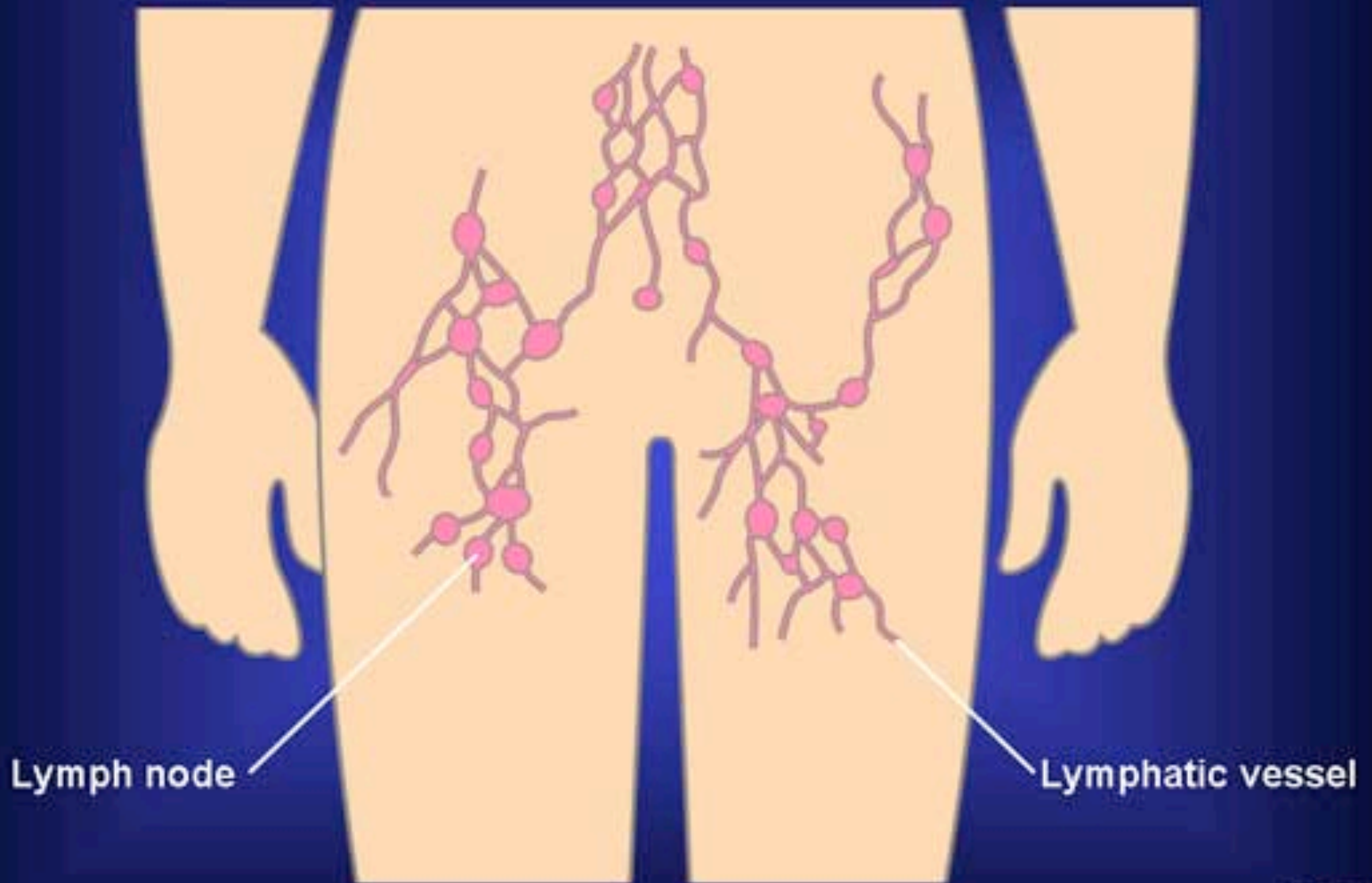


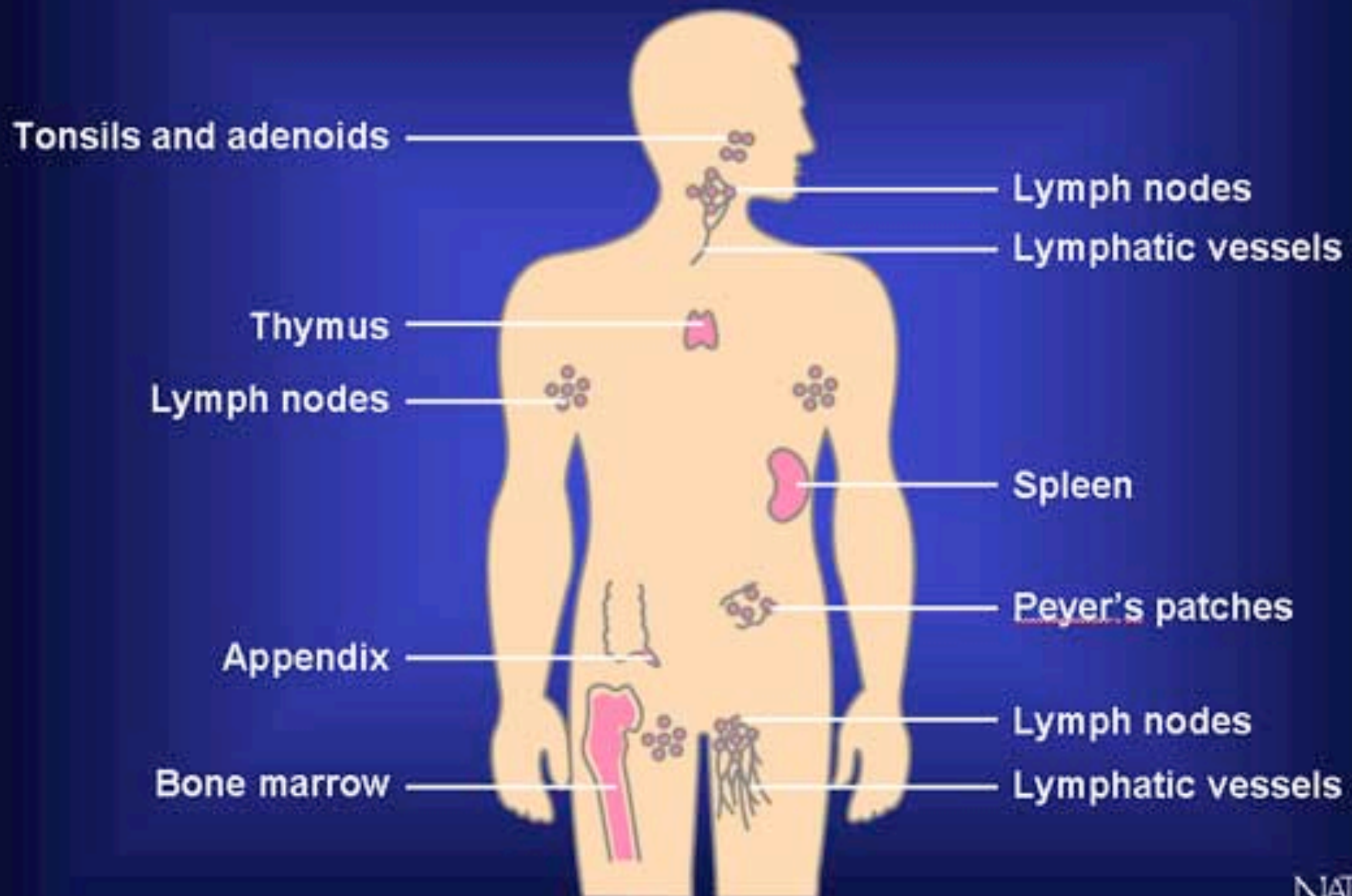
**How does the Immune
System work?**

Lymphatic System



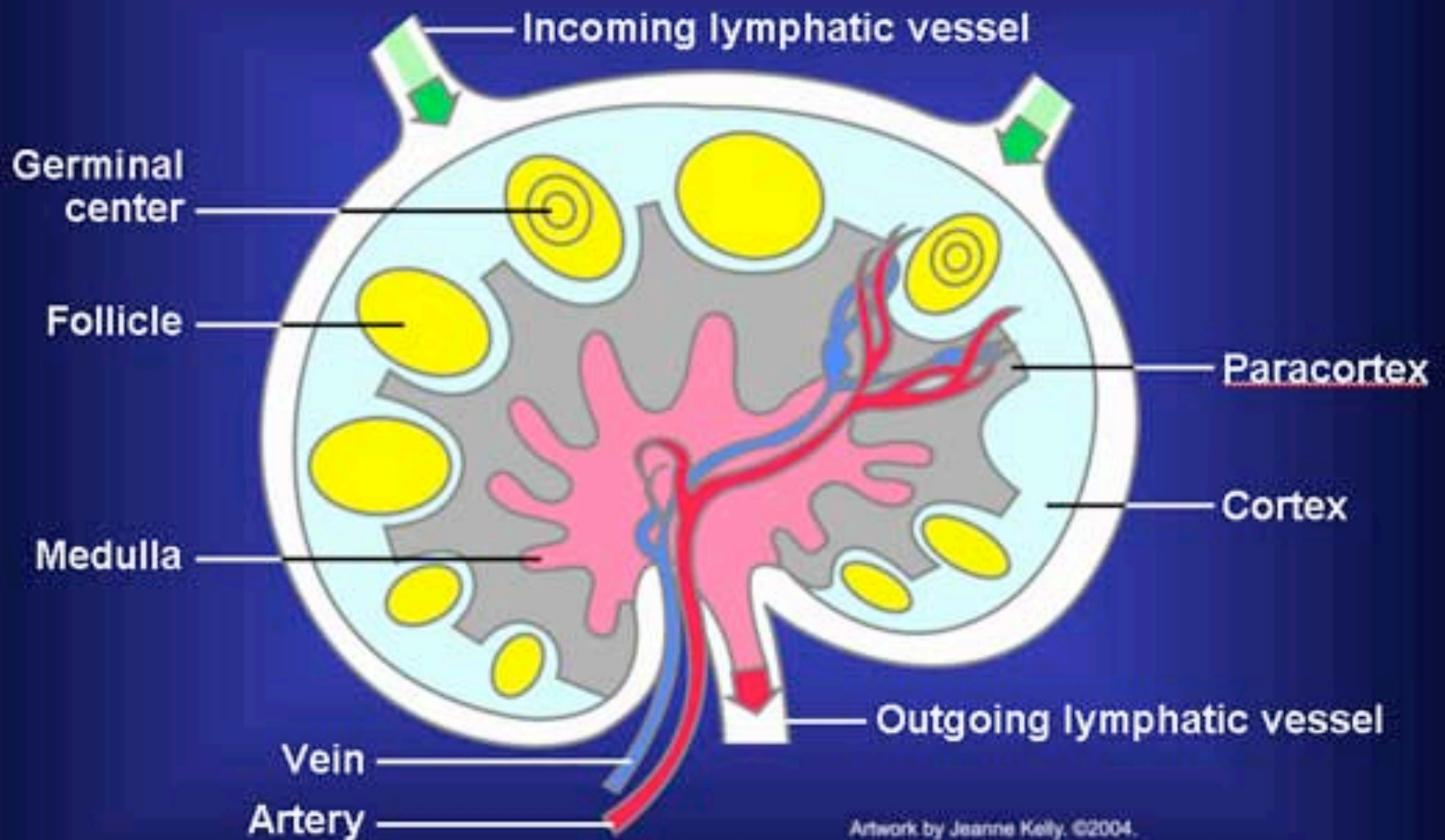
Artwork by Jeanne Kelly. ©2004.

Organs of the Immune System



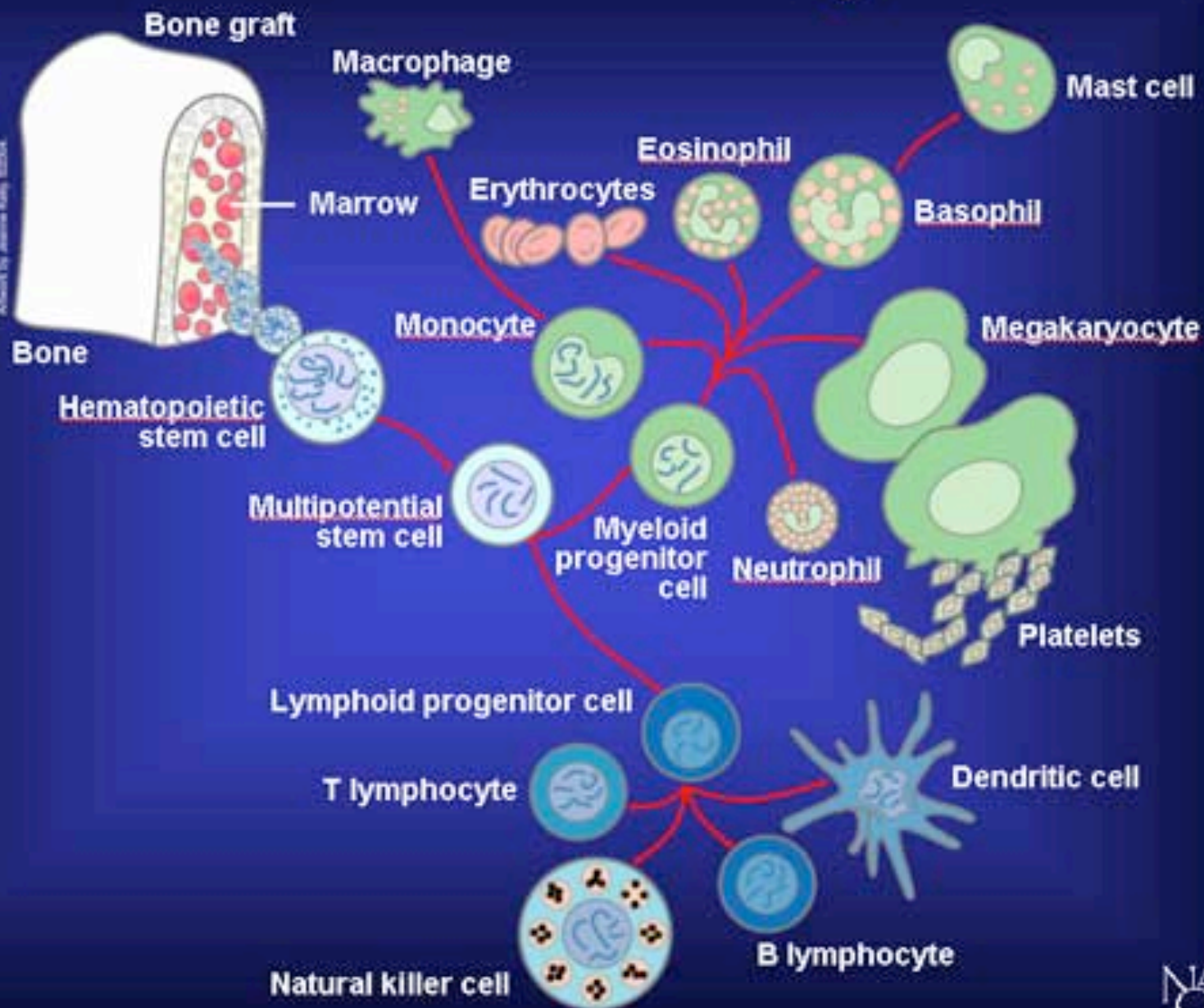
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Lymph Node

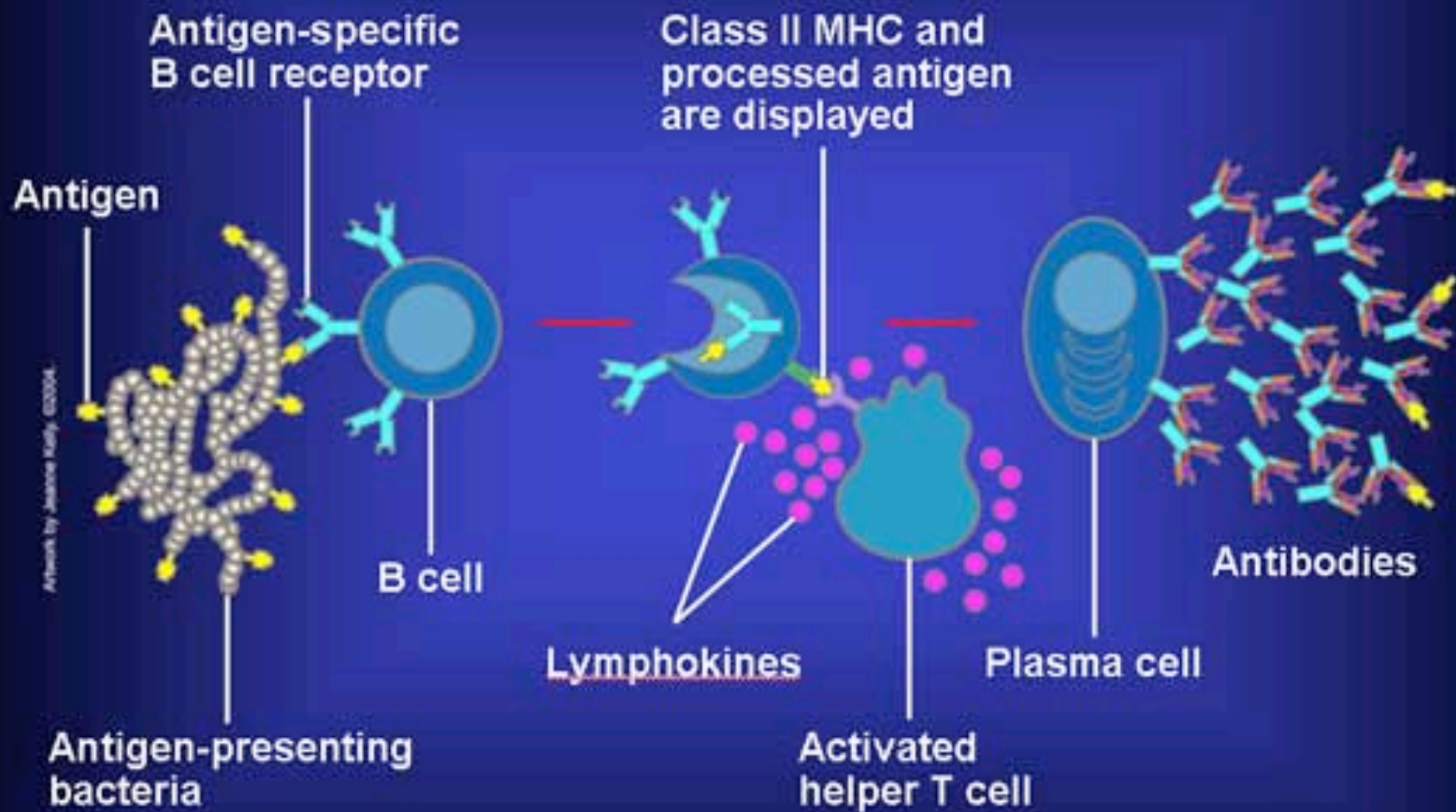


Artwork by Jeanne Kelly. ©2004.

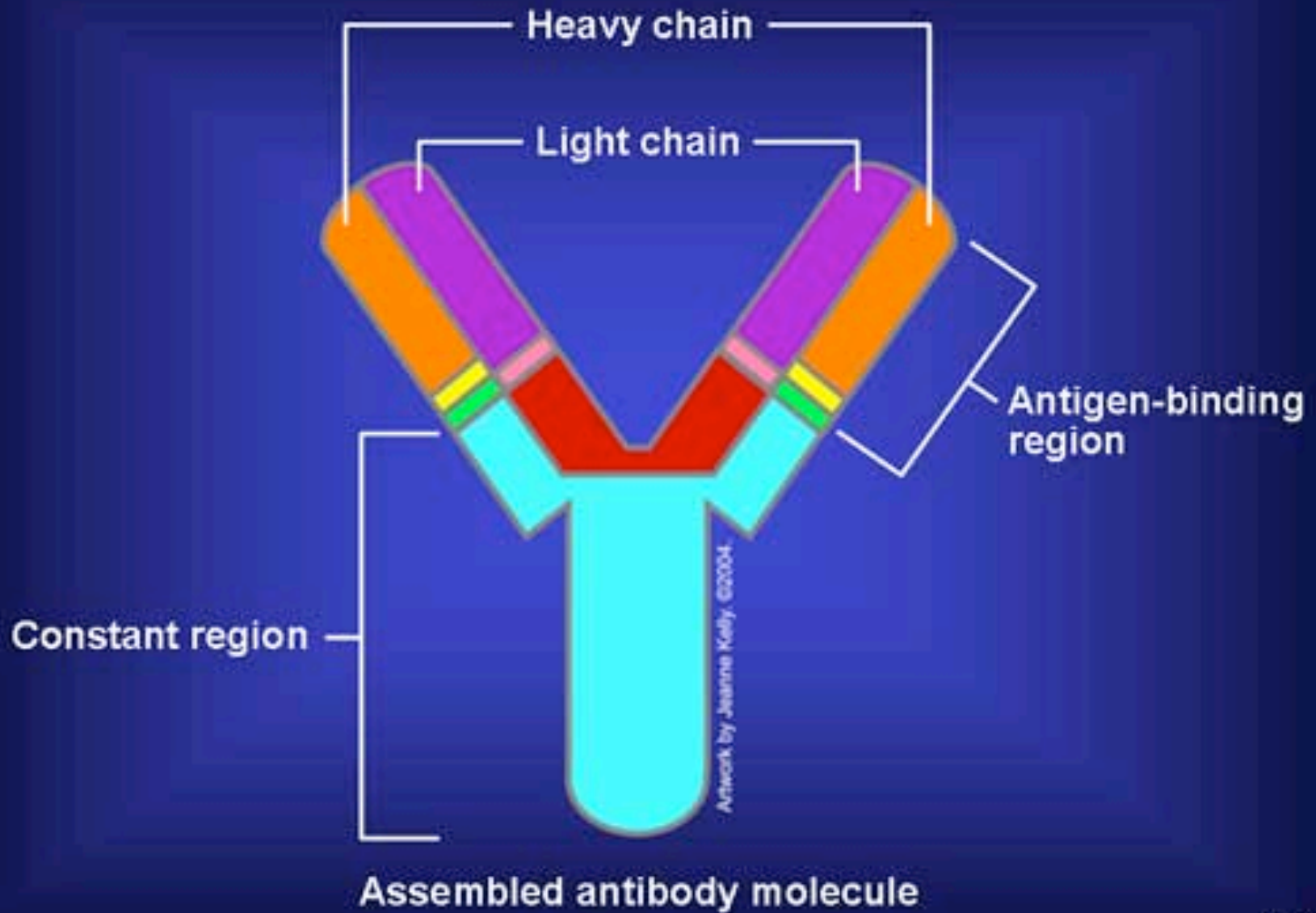
Cells of the Immune System



B Cells



Antibody



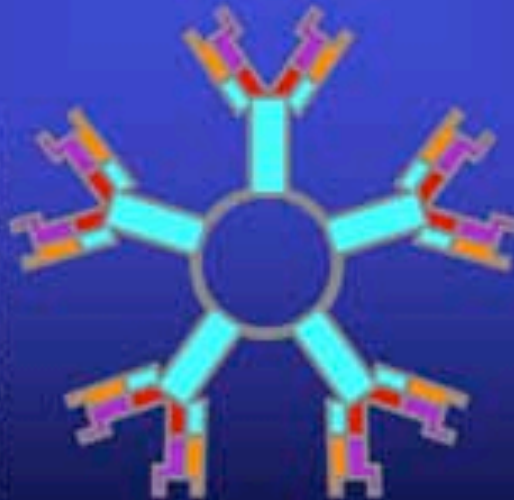
Immunoglobulins



IgG, IgD, IgE, and IgA



IgA



IgM

Artwork by Jeanne Kelly. ©2004.

T Cells

Resting helper T cell



Activated helper T cell

Resting cytotoxic T cell



Activated killer cell

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Phagocytes and Their Relatives



Monocyte



Eosinophil



Mast cell



Macrophage



Dendritic cell



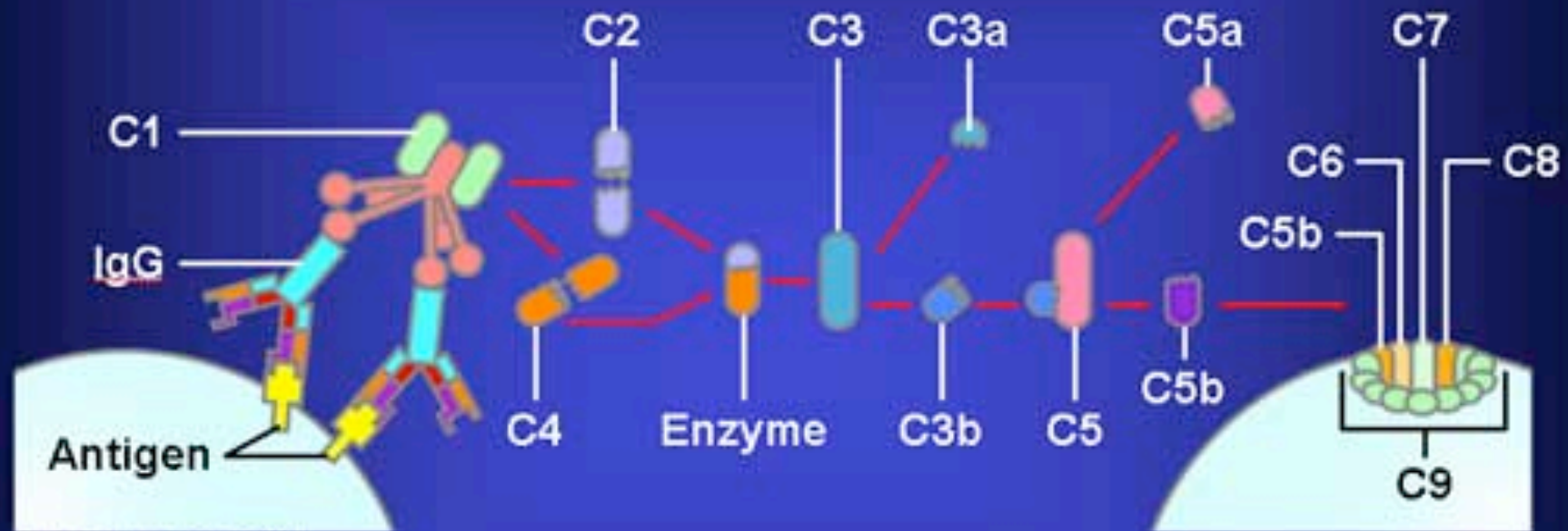
Neutrophil



Basophil

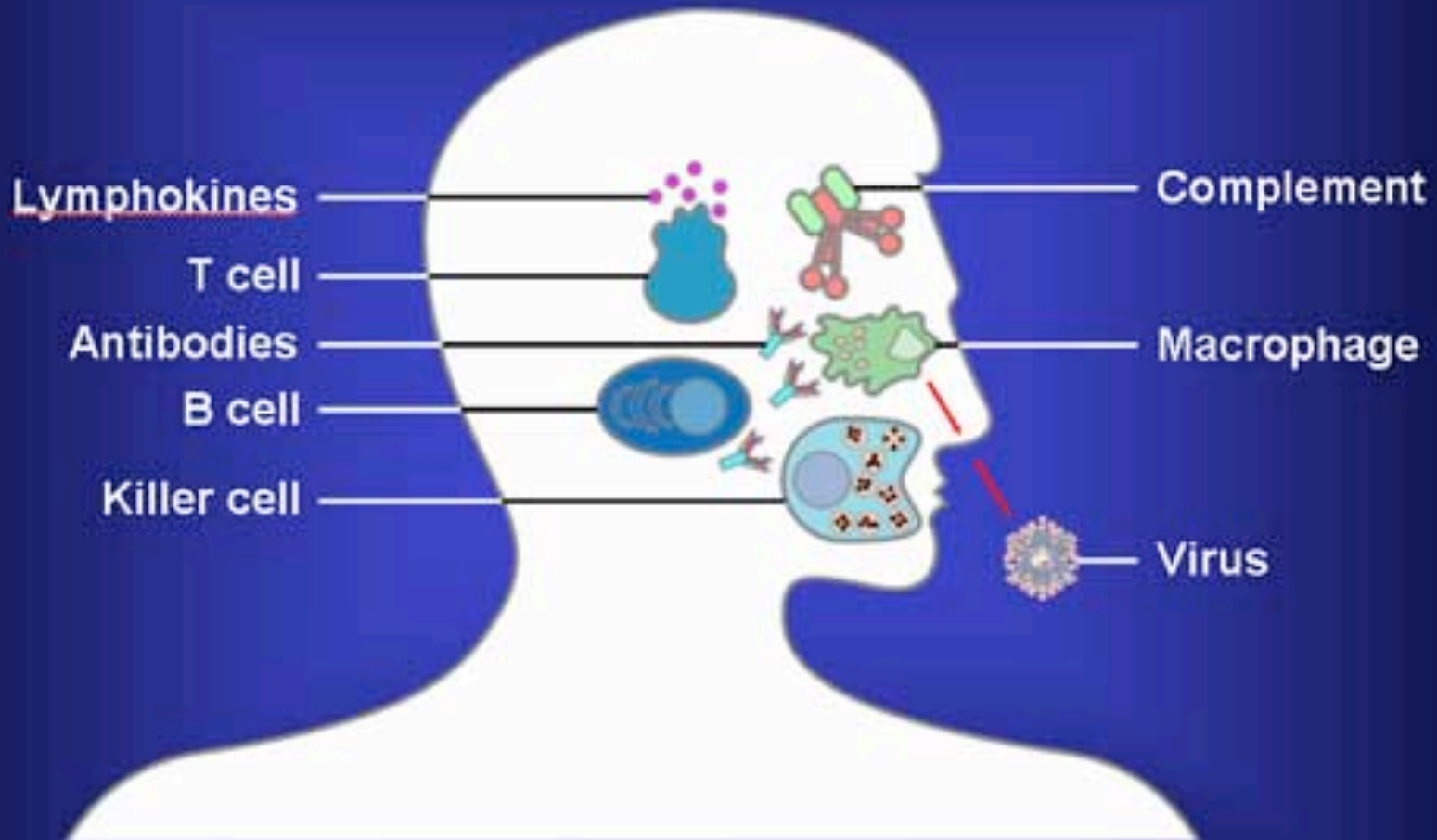
Adapted by Jennifer Kelly, 2004

Complement



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Mounting an Immune Response



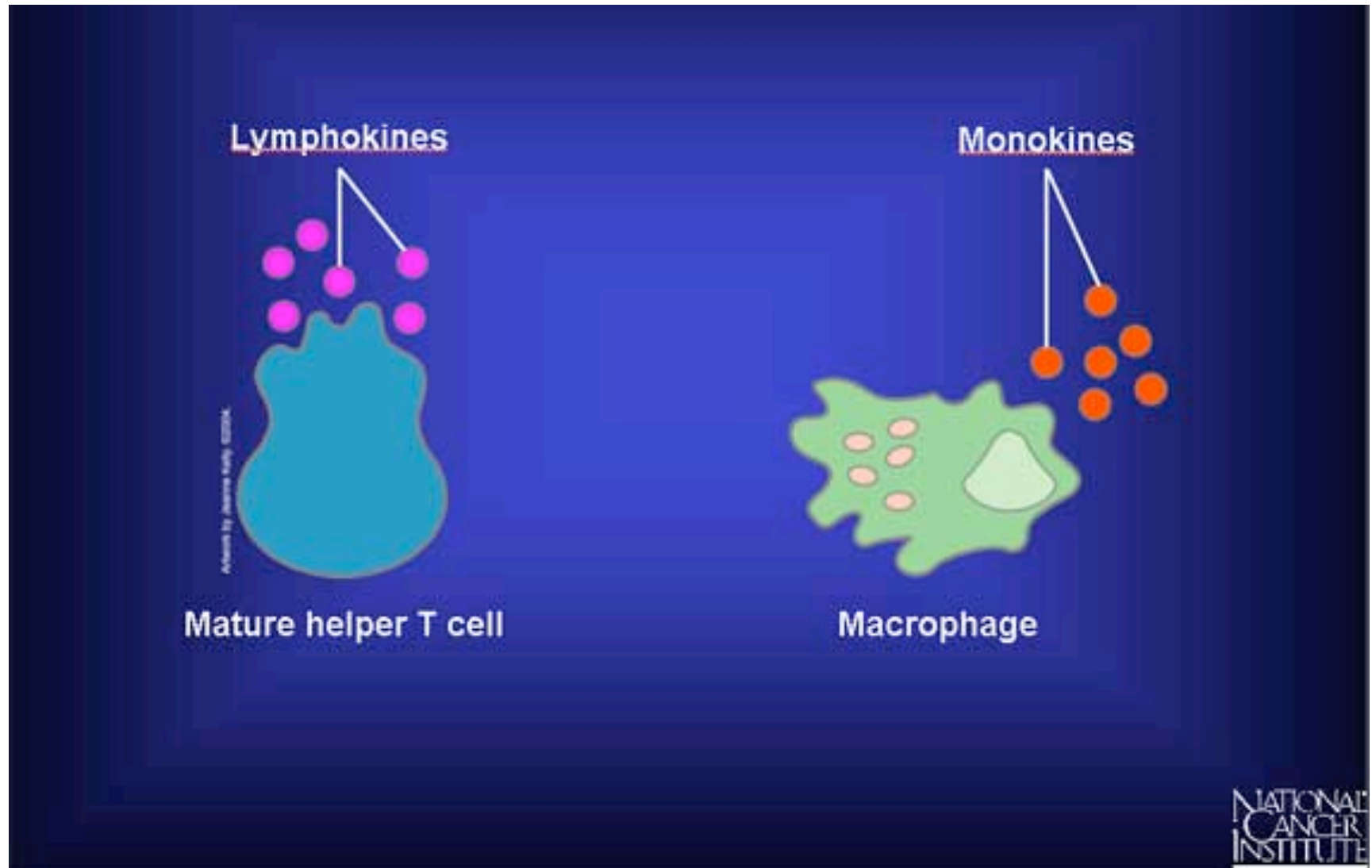
Artwork by Jeanne Kelly. ©2004.

**We think of the nasty bacteria and viruses
as making us feel sick,**



Illustration: Don Smith

But the immune response (interferons and other cytokines)
Are really the cause of your feeling bad !



Immunity: Active and Passive

Active immunity



Naturally acquired



Artificially acquired

Passive immunity



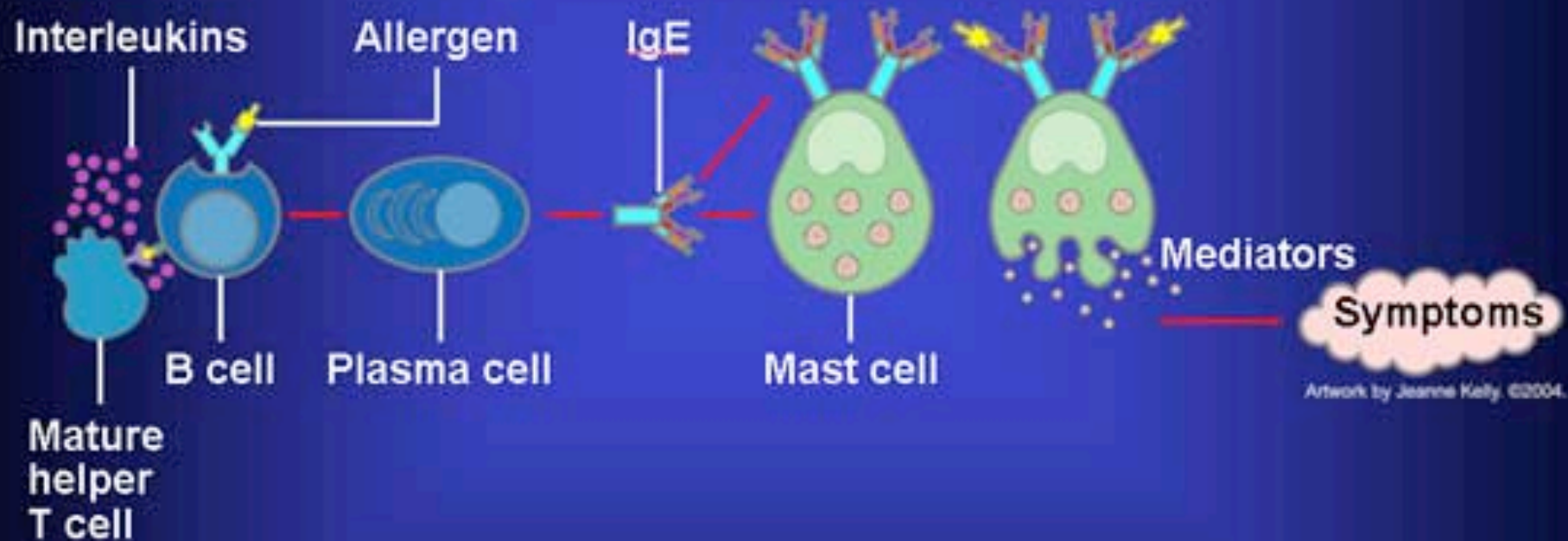
Naturally acquired



Artificially acquired

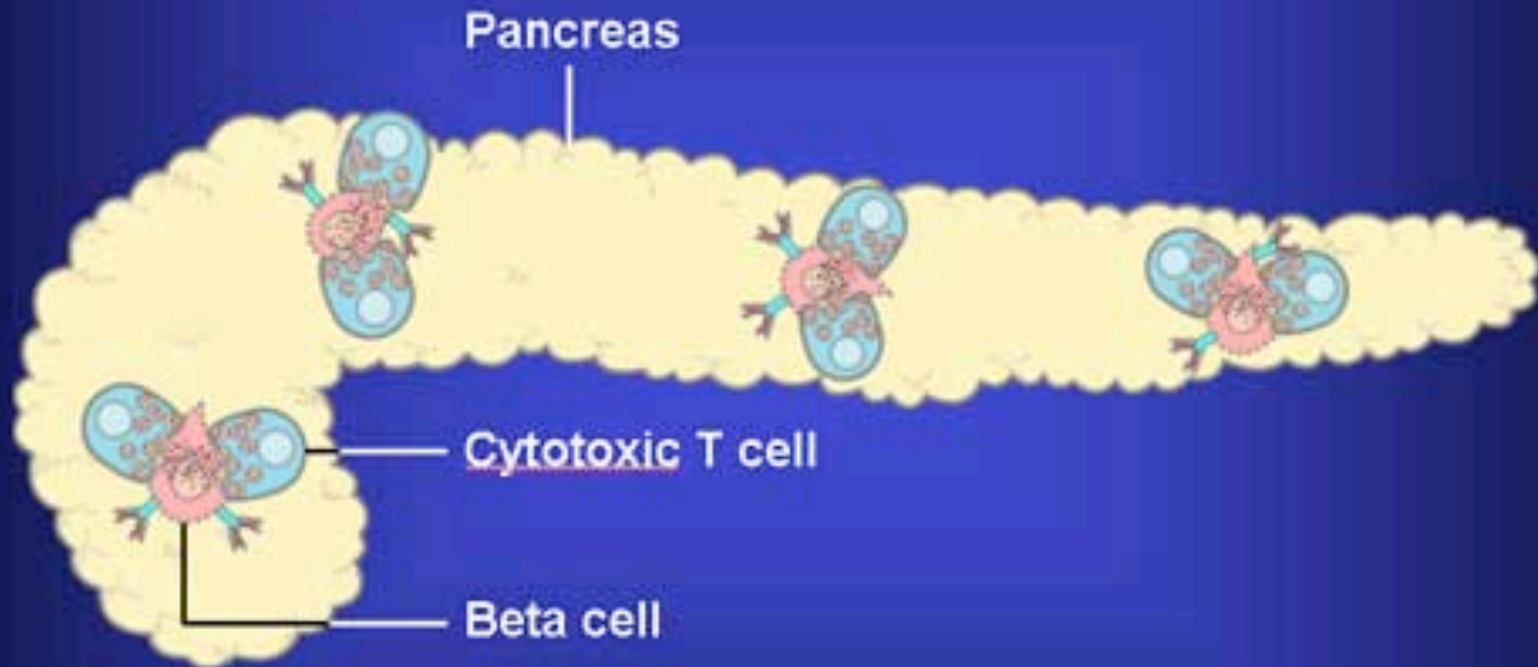
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Disorders of the immune system: Allergy



Artwork by Jeanne Kelly. ©2004.

Disorders of the immune system: Autoimmunity



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And immune deficiency diseases

