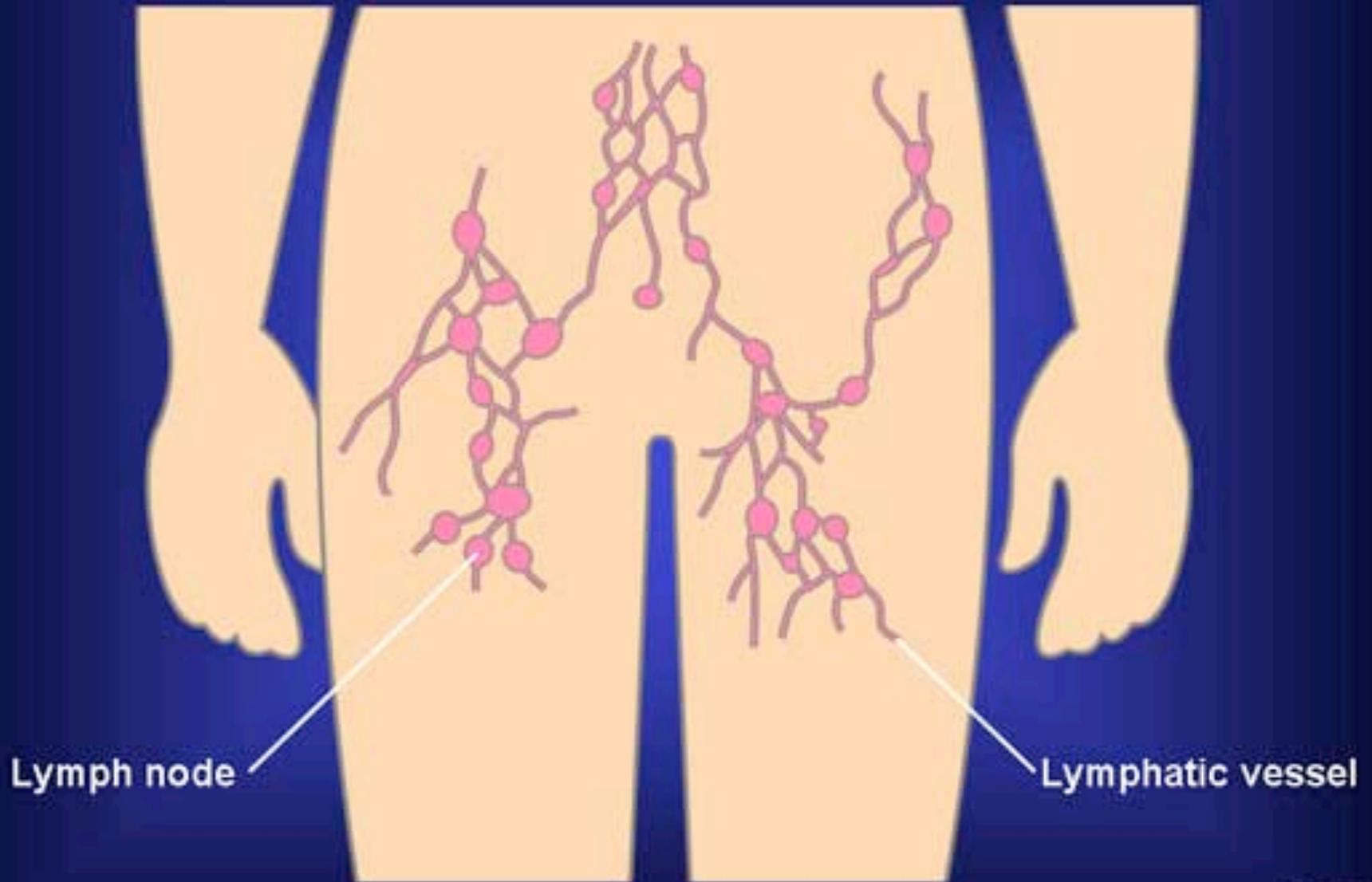


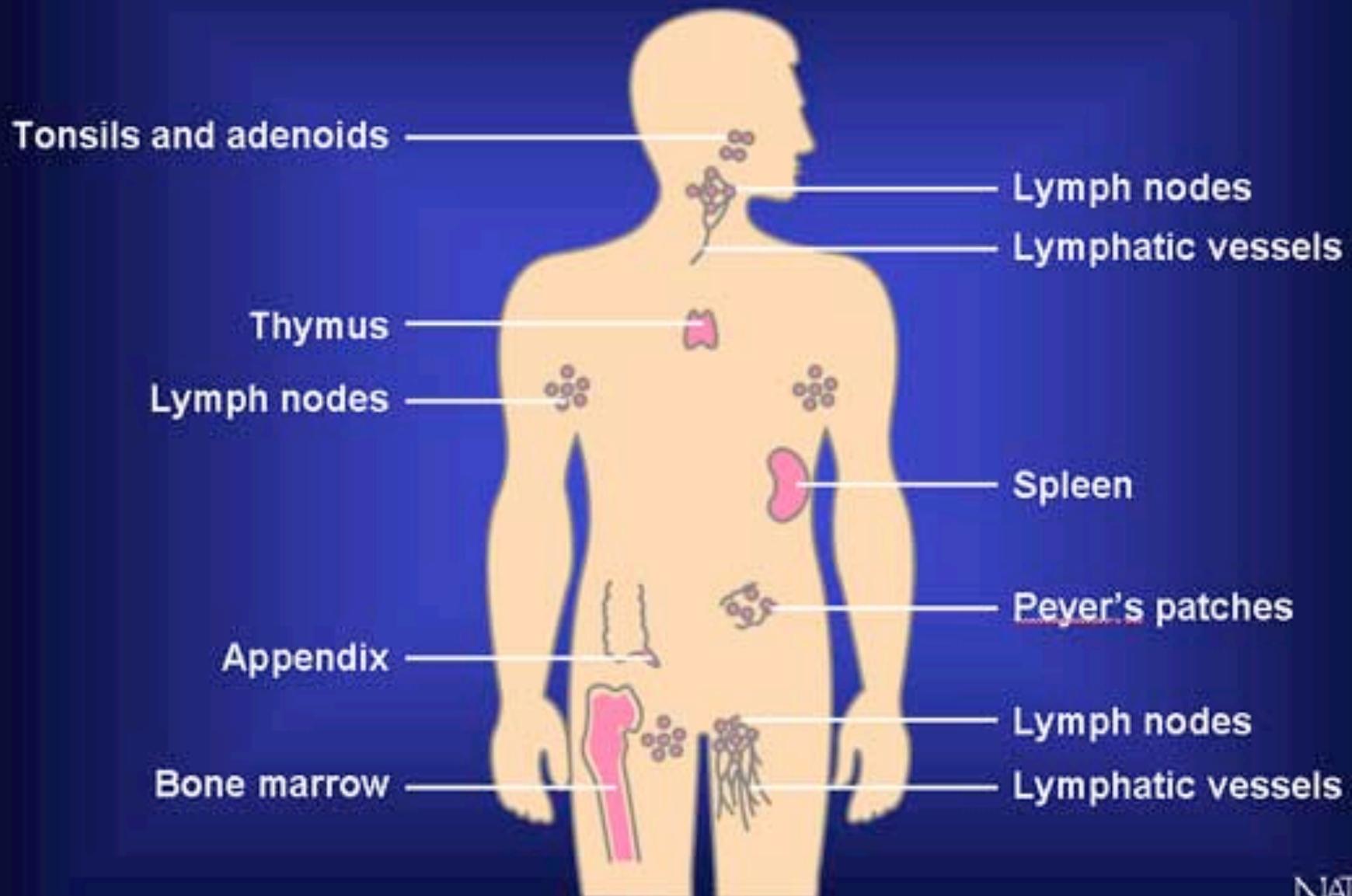
**How does the Immune
System work?**

Lymphatic System



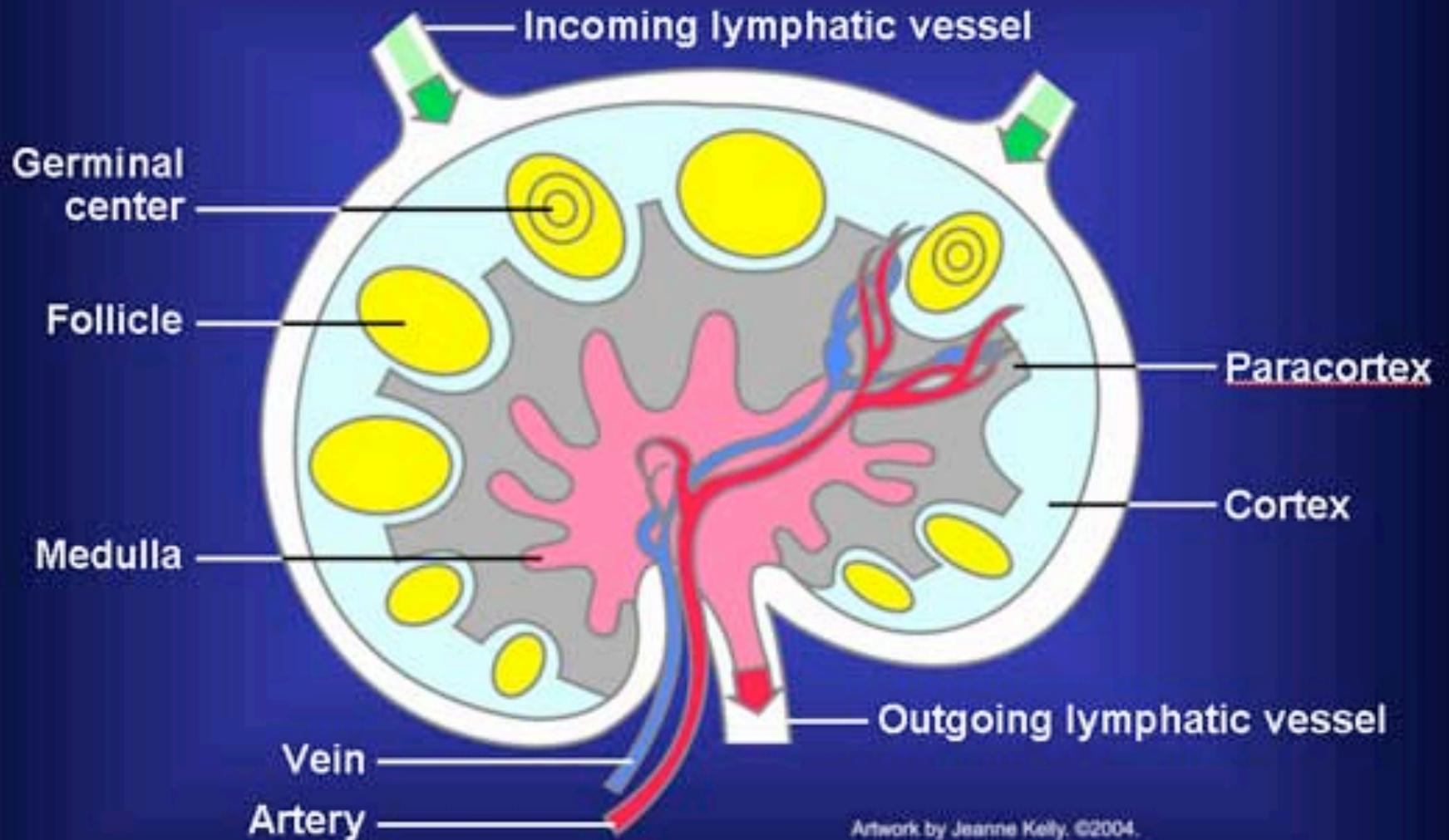
Artwork by Jeanne Kelly. ©2004.

Organs of the Immune System



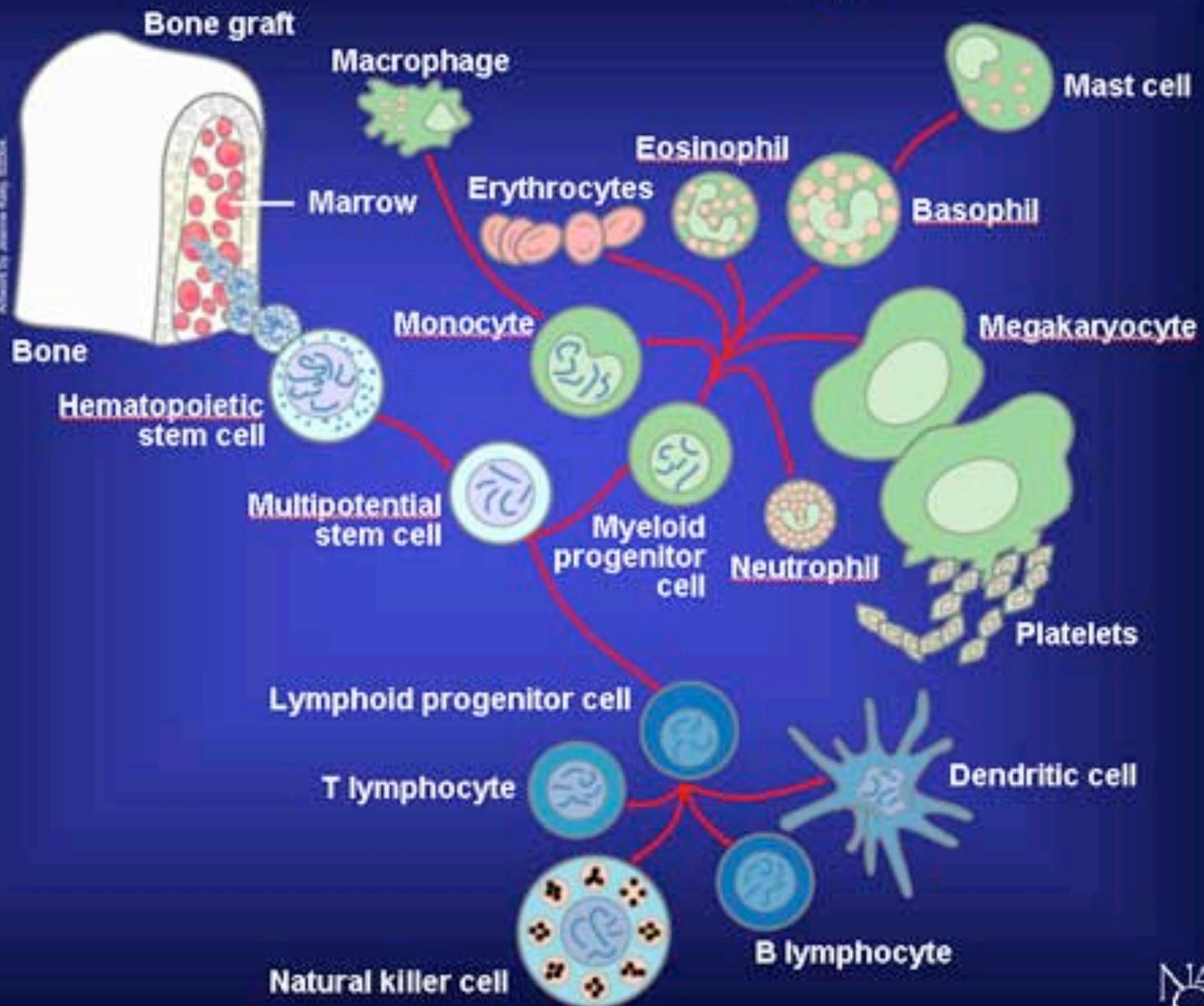
Artwork by Jeanne Kelly. ©2004.

Lymph Node

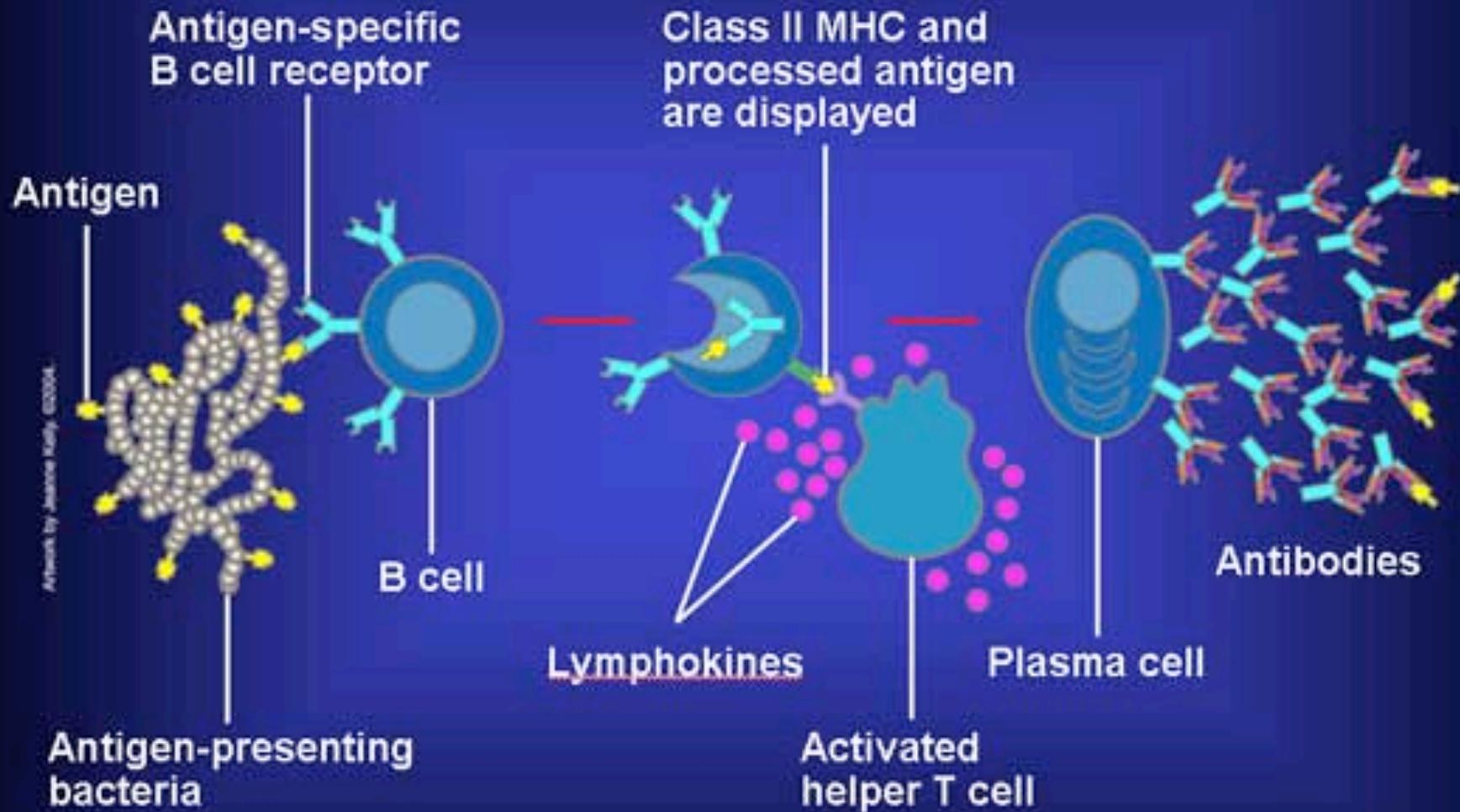


Artwork by Jeanne Kelly. ©2004.

Cells of the Immune System

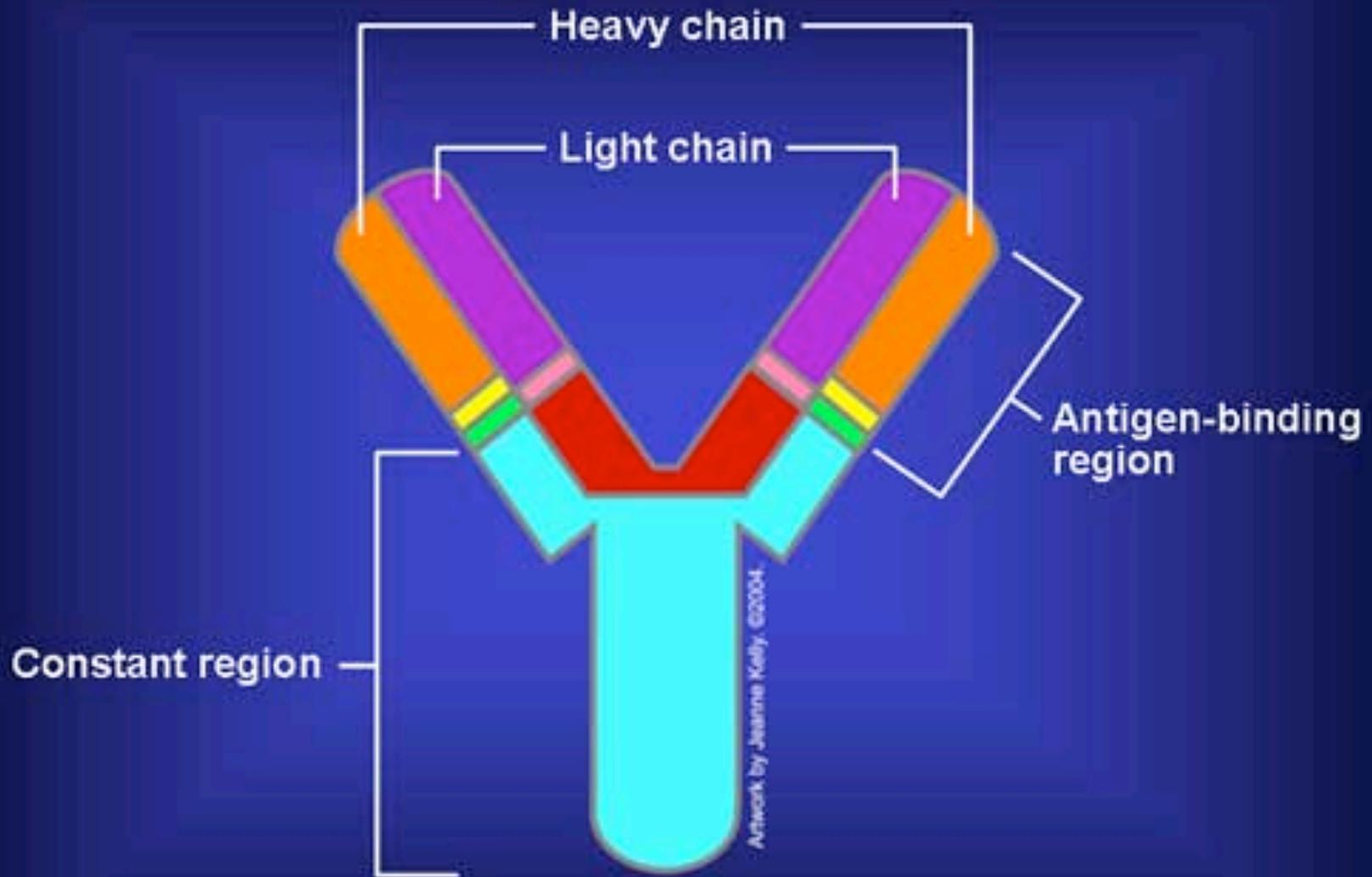


B Cells

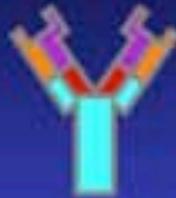


Artwork by Jeanne Kelly, ©2004.

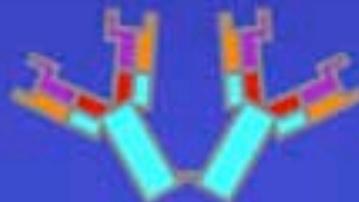
Antibody



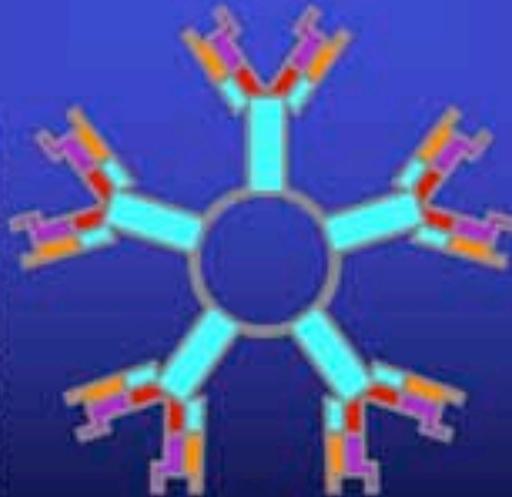
Immunoglobulins



IgG, IgD, IgE, and IgA



IgA



IgM

Artwork by Jeanne Kelly. ©2004.

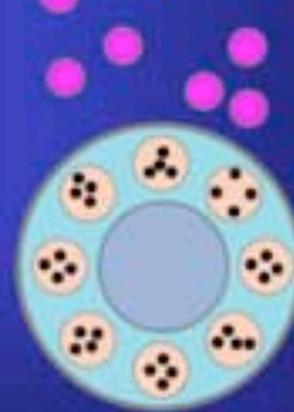
T Cells

Resting helper T cell



Activated helper T cell

Resting cytotoxic T cell



Activated killer cell

Artwork by Jeanne Kelly, ©2004.

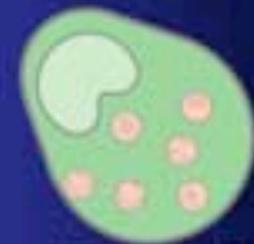
Phagocytes and Their Relatives



Monocyte



Eosinophil



Mast cell



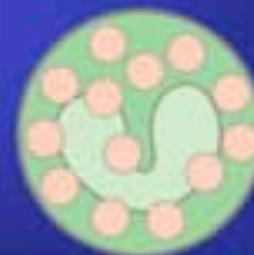
Macrophage



Dendritic cell



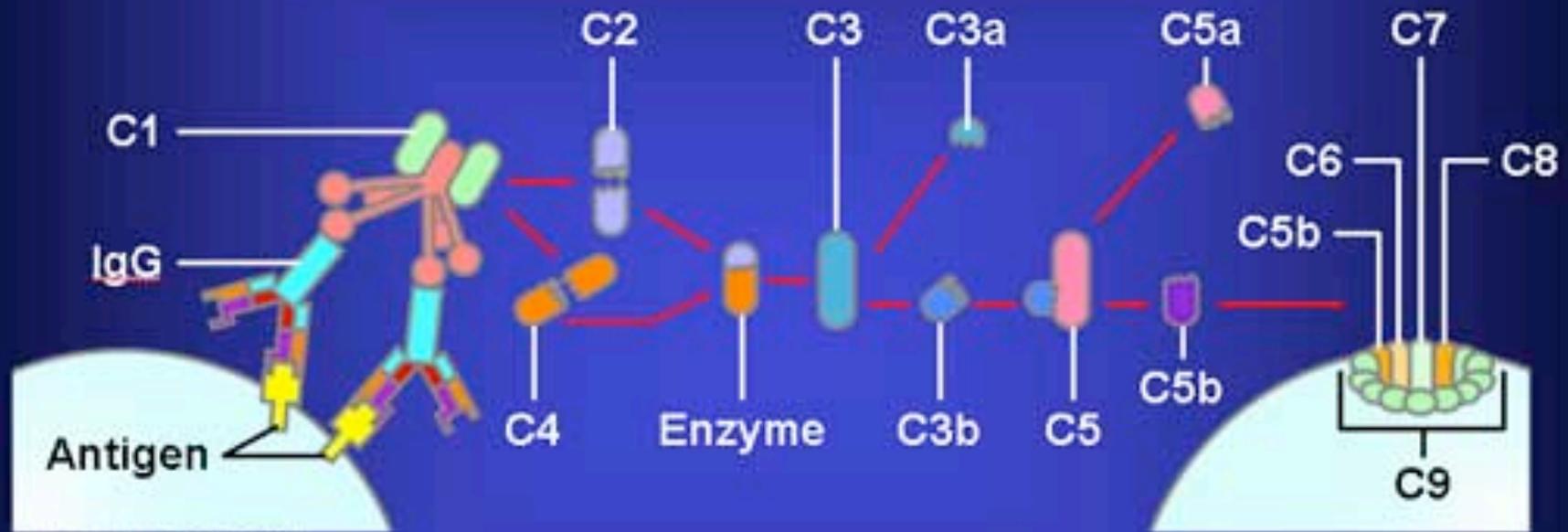
Neutrophil



Basophil

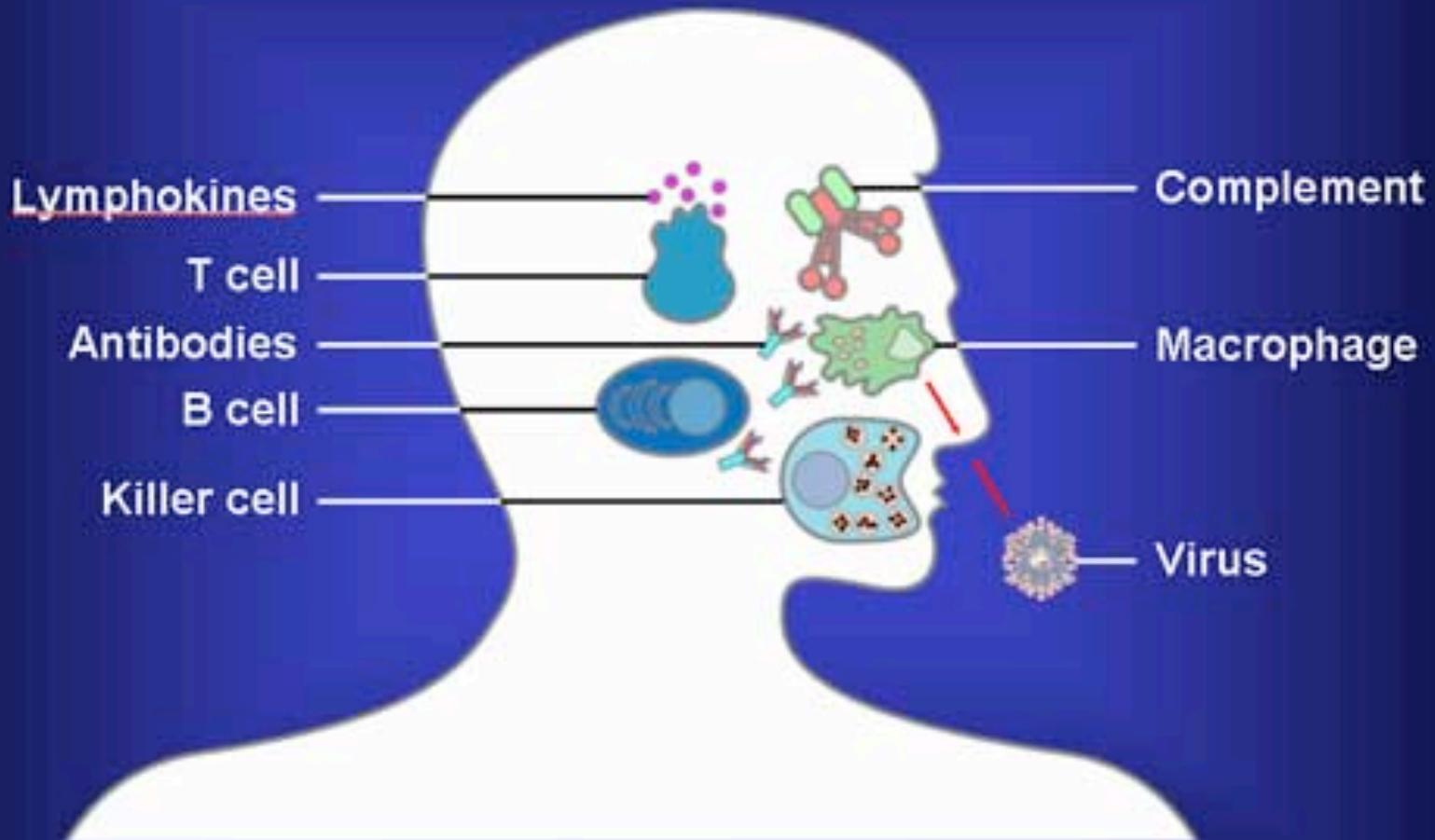
Illustration by Jennifer Taylor, Esq.

Complement



Artwork by Jeanne Kelly, ©2004.

Mounting an Immune Response



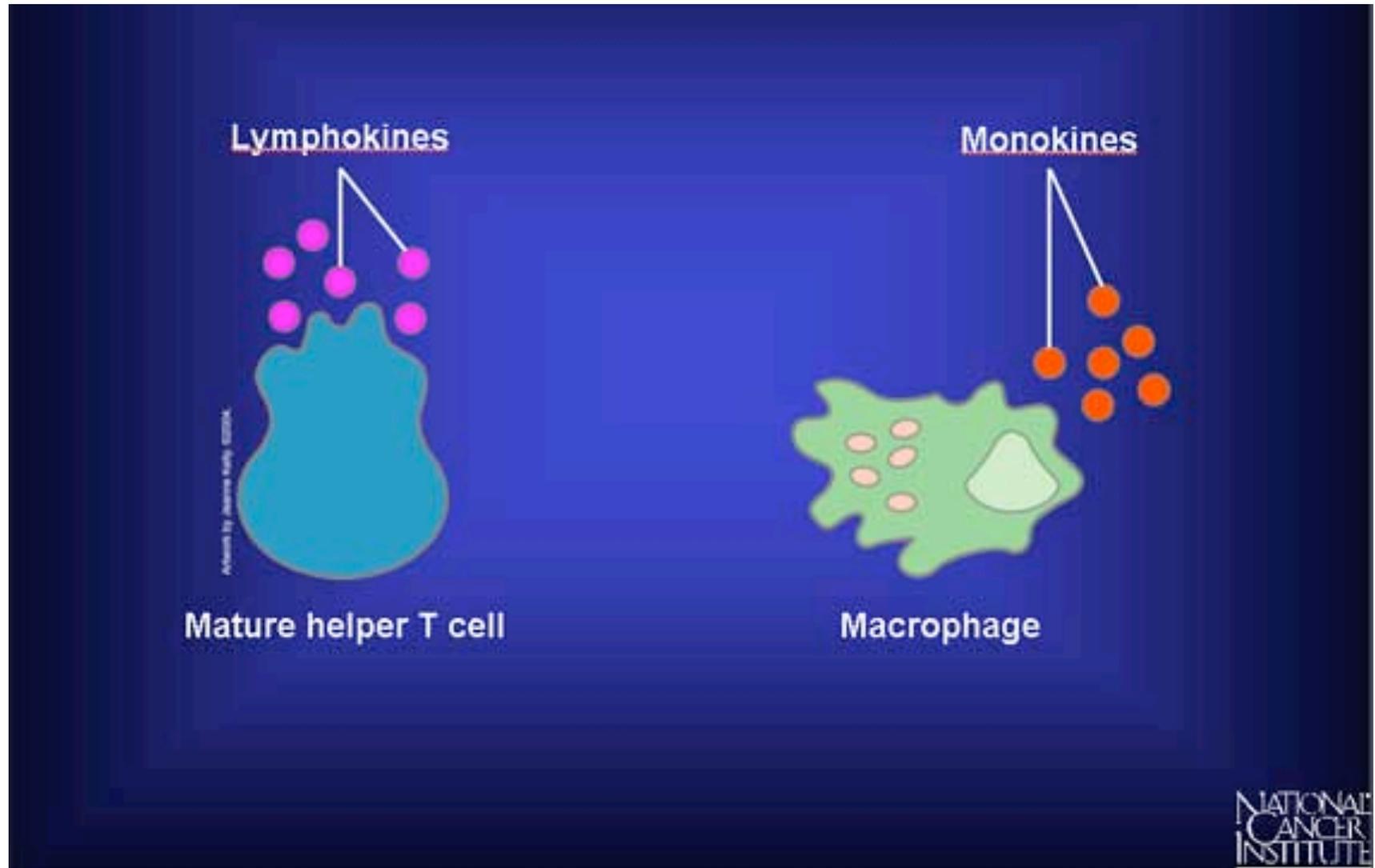
Artwork by Jeanne Kelly. ©2004.

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



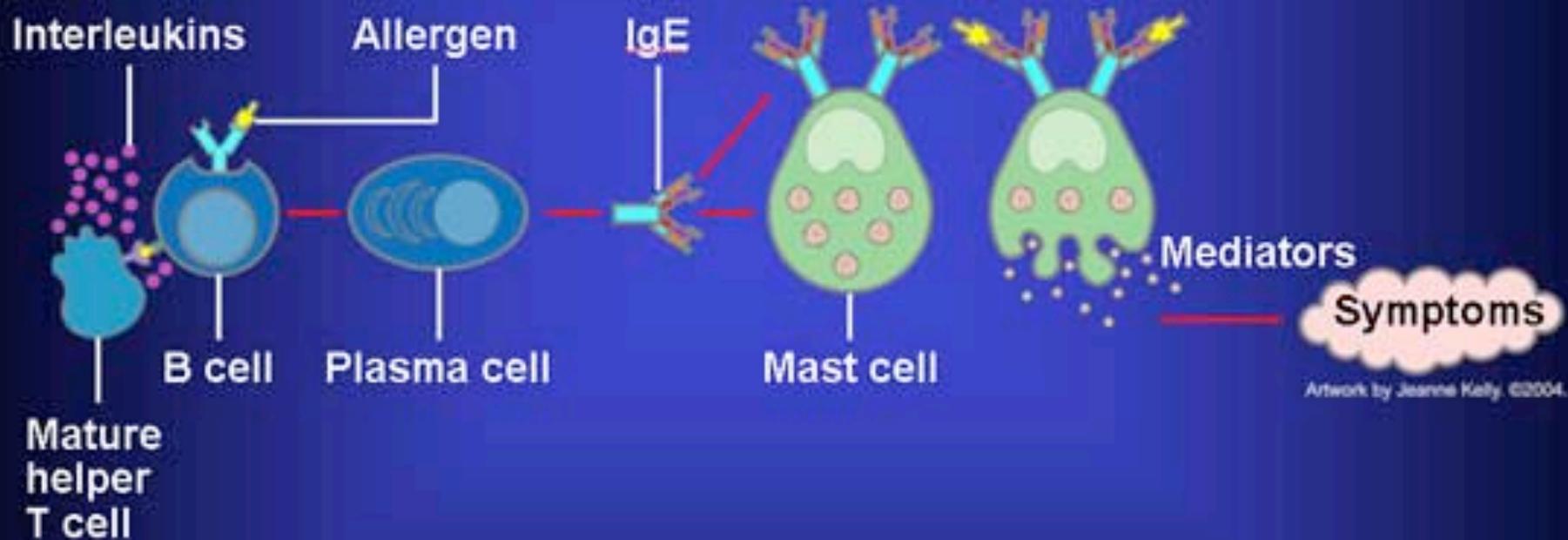
Naturally acquired



Artificially acquired

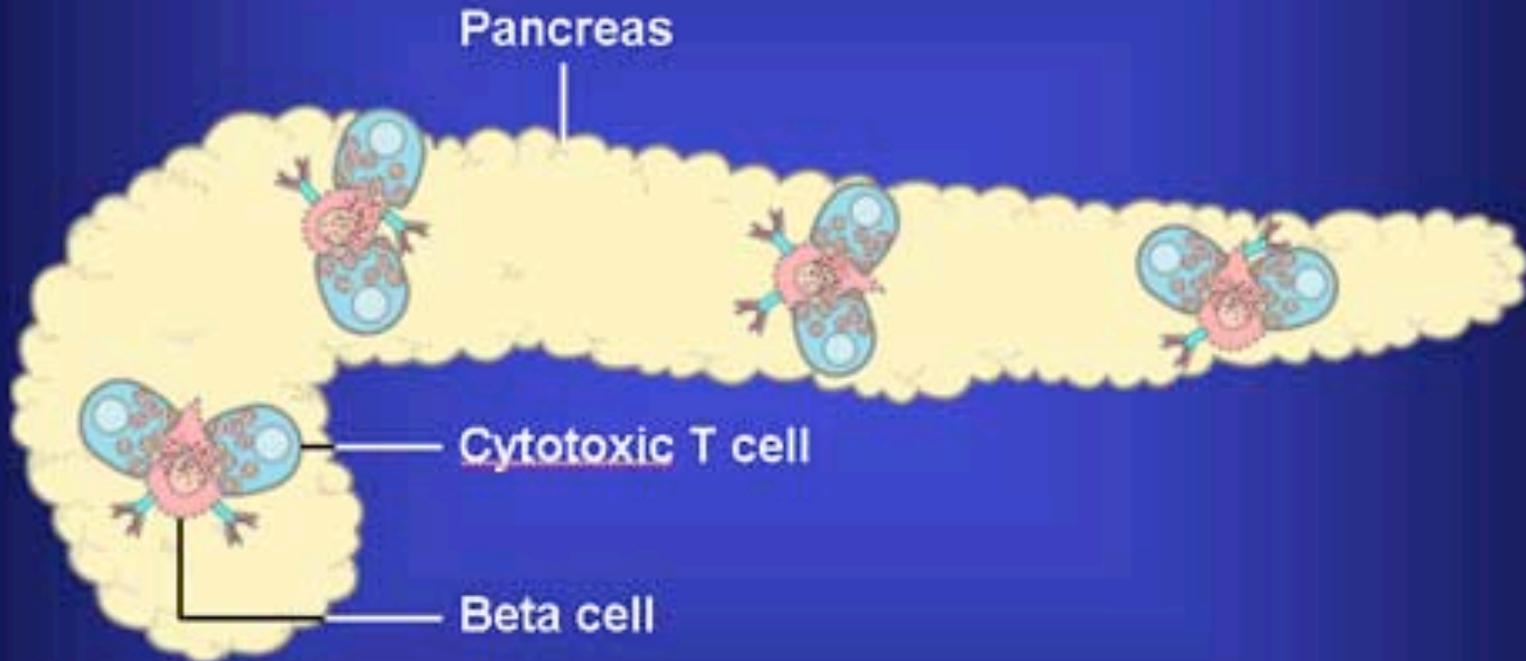
Artwork by Jeanne Kelly, ©2004

Disorders of the immune system: Allergy



Artwork by Jeanne Kelly. ©2004.

Disorders of the immune system: Autoimmunity



Artwork by Jeanne Kelly, ©2004.

And immune deficiency diseases

