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BLOOD CELLS
LRD 2013/01/21
Refs:
http://en.wikipedia.org/wiki/Blood_cell
http://en.wikipedia.org/wiki/White_blood_cell
http://en.wikipedia.org/wiki/B_cell
http://en.wikipedia.org/wiki/Plasma_cell
Thrombocytes (plateletes)
Erythrocytes (red blood cells)
[carry O2 and CO2 via hemoglobin, live about 120 days]
Leukocytes (white blood cells)
[immune system components, also in lymphatic system, live 3-4 days, 1% of blood volume]
 Neutrophils
  [Target bacteria and fungi, live 6h to a few days]
 Eosinophils
  [Target larger parasites, live 8-12 days]
  Basophils
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[Release histamine for inflamatory responses, live a few h to a few d]

Monocytes

[Move to tissues, differentiates to macrophages]

Lymphocytes

[Complex. Live years for memory cells, weeks for all others.]

B cells (B lymphocytes)

[Release antibodies, assist in activation of T cells]

[Up to 10^9 versions, each matched to specific antigen]

[Immature form produced in bone marrow, complex maturation process]

Plasma B cells (plasmacytes)

[differentiate from prior stage after activation by antigen, short lived] [malignant neoplasms of plasma cells:

plasmacytoma, multiple myeloma, Waldenstrom macroglobulinemia, plasma cell leukemia]

Memory B cells

[differentiate from prior stage after activation, long lived]

B-1 cells

B-2 cells

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Marginal-zone B cells

Follicular B cells

T cells

CD4+ (T helper)
[assist in activation of B cells]

CD8+ (cytotoxic T cells)
gamma-delta T cells

regulatory (suppressor) T cells natural killer cells
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