



Aging



Immune function



(a) Stem cells

Bone Marrow



Lymphoid Myeloid

- ↓ Common lymphoid precursor
- ↑ Myeloid skew
- ↑ HSC pool
- ↓ HSC output

(b) Adaptive immune system

B Cells



- ↑ Marginal zone B cells
- ↓ Antibody diversity
- ↓ Antibody affinity

Thymus



- Thymic involution
- ↓ T-cell production

T Cells

- ↓ Naive T cells
- ↑ Memory T cells
- ↓ Activation
- ↓ CD8⁺ T cells

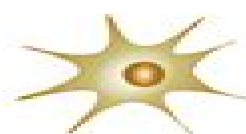


(c) Innate immune system



Neutrophils

- Equivalent Number
- ↓ Function?



Dendritic cells

- ↓ Numbers?
- ↓ Phagocytosis
- ↓ Co-stimulatory molecules

Macrophages

- ↓ Numbers?
- ↓ Phagocytosis?



Natural killer cells

- ↑ Numbers
- ↓ Cytolytic capacity?



Aging And The Immune Function

Jessica J Manson



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web movement through mitosis cell cycle division mitosis beads diagram prophase during this phase the chromatids and the set of replicated chromosomes are lined up beside each other horizontally the sister chromatids have 20 beads each 5 beads on each of the four strands the replicated chromosomes had 12 beads each 3 beads on each

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web during this phase chromosomes line up in the middle mitosis worksheet the diagram below shows six cells in various phases of the cell cycle note the cells are not arranged in the order in which mitosis occurs and one of the phases of mitosis occurs twice use the diagram to answer questions 1 7 1 cells a and d show an early and a late stage

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