

Koch Cancer Research Bldg Dedication

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JOHNS HOPKINS
M E D I C I N E

THE SIDNEY KIMMEL
COMPREHENSIVE CANCER
CENTER



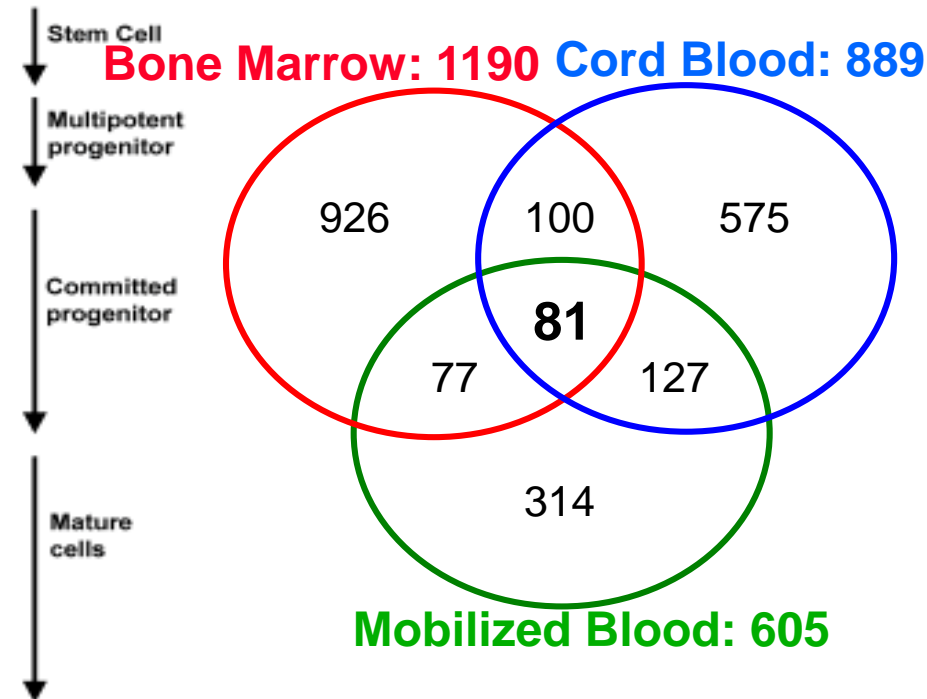
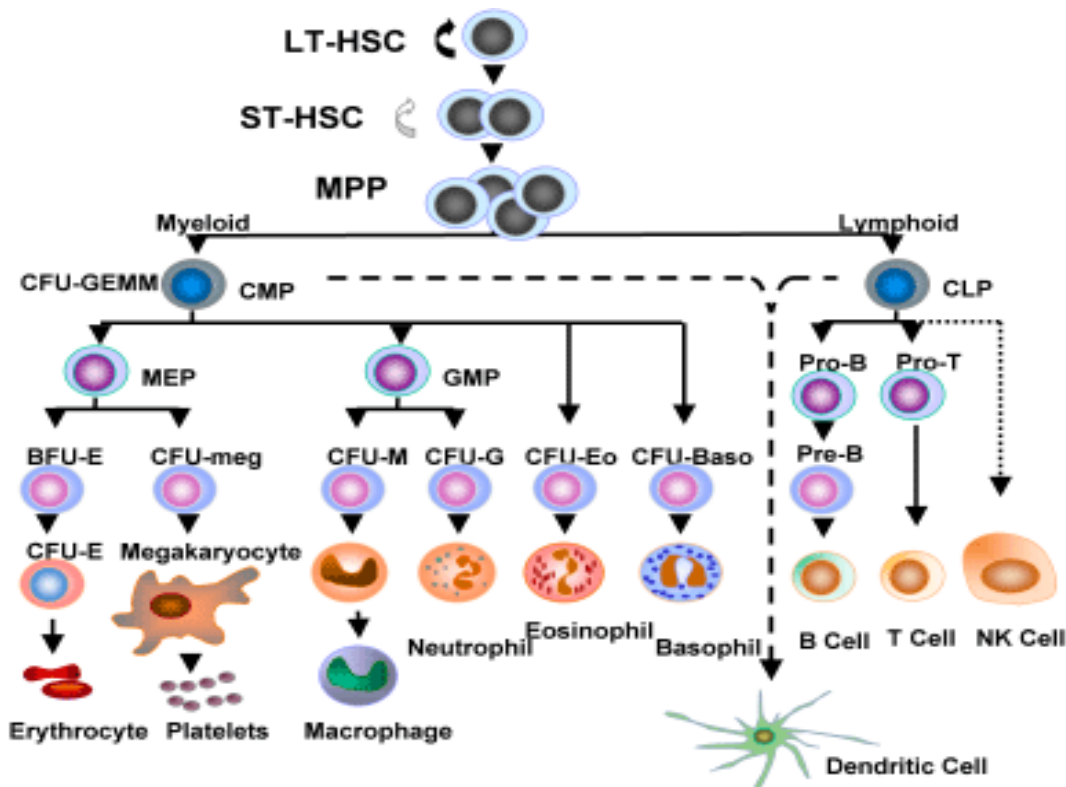
Lab research

Clinical results

Koch CRB



Hematopoietic development from rare stem cells



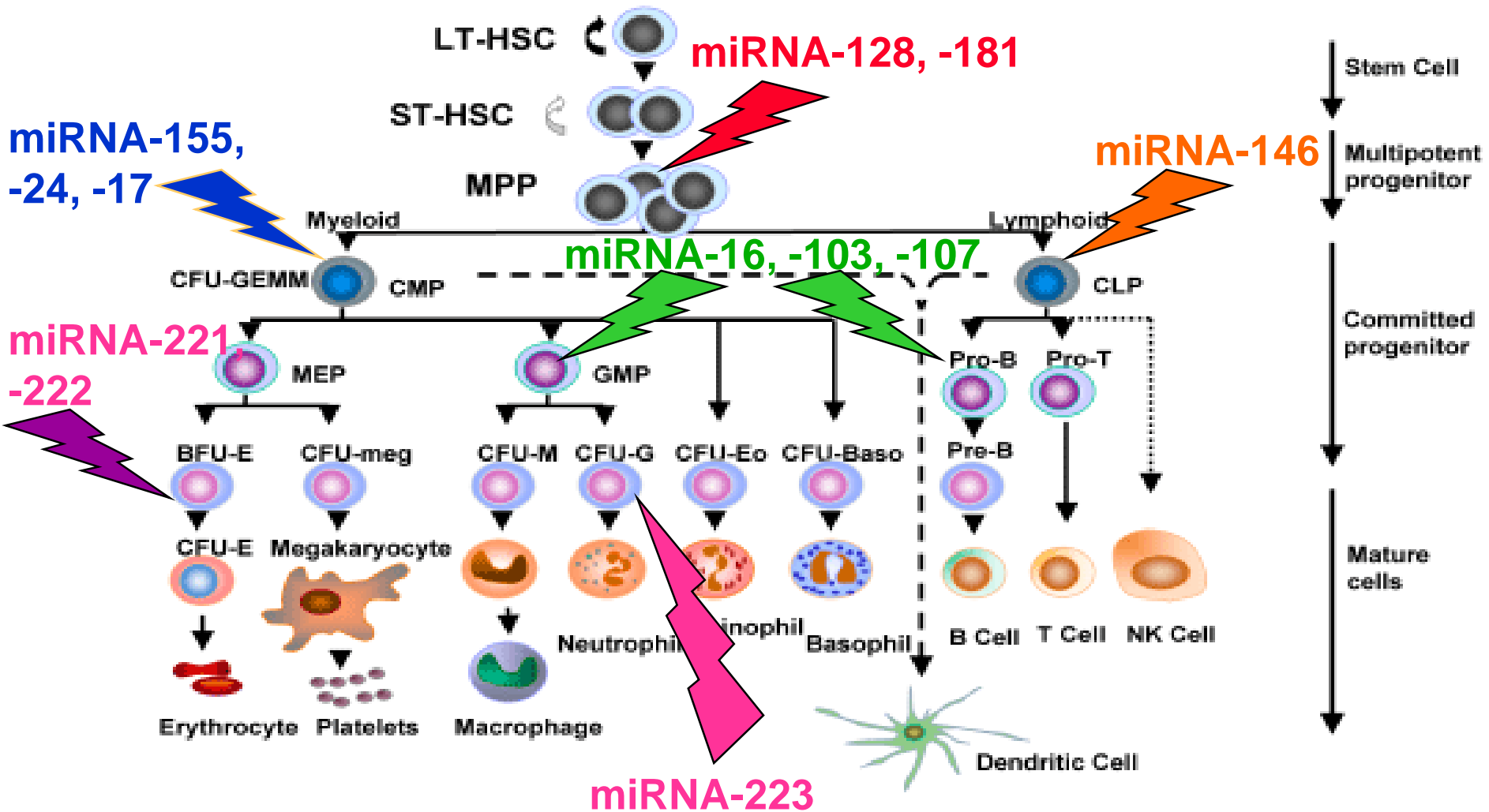
The gene expression profiles provided direction:

➤ Study the 81 genes that are highly expressed in stem cells vs progenitors to understand the key properties of stem cells

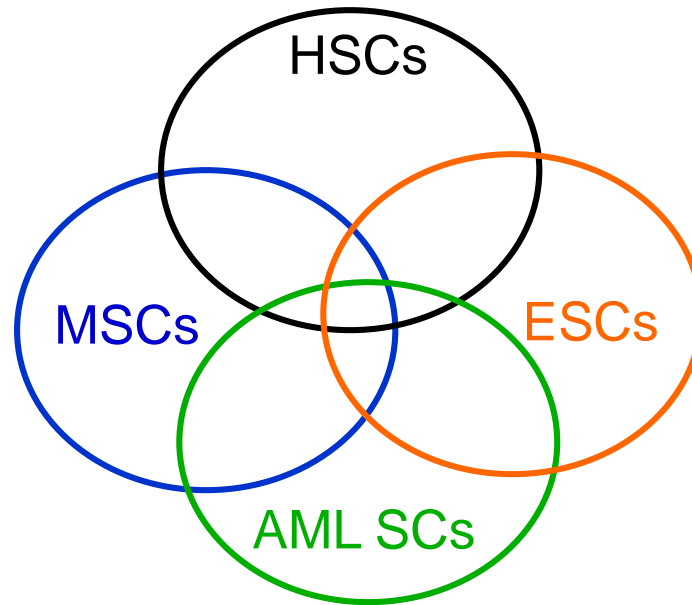
But some of the results puzzled us:

➤ Why are so many genes required for later development already expressed in hematopoietic stem cells? Why doesn't this cause hem stem cells to differentiate?

MicroRNAs regulate hematopoietic stem cell development



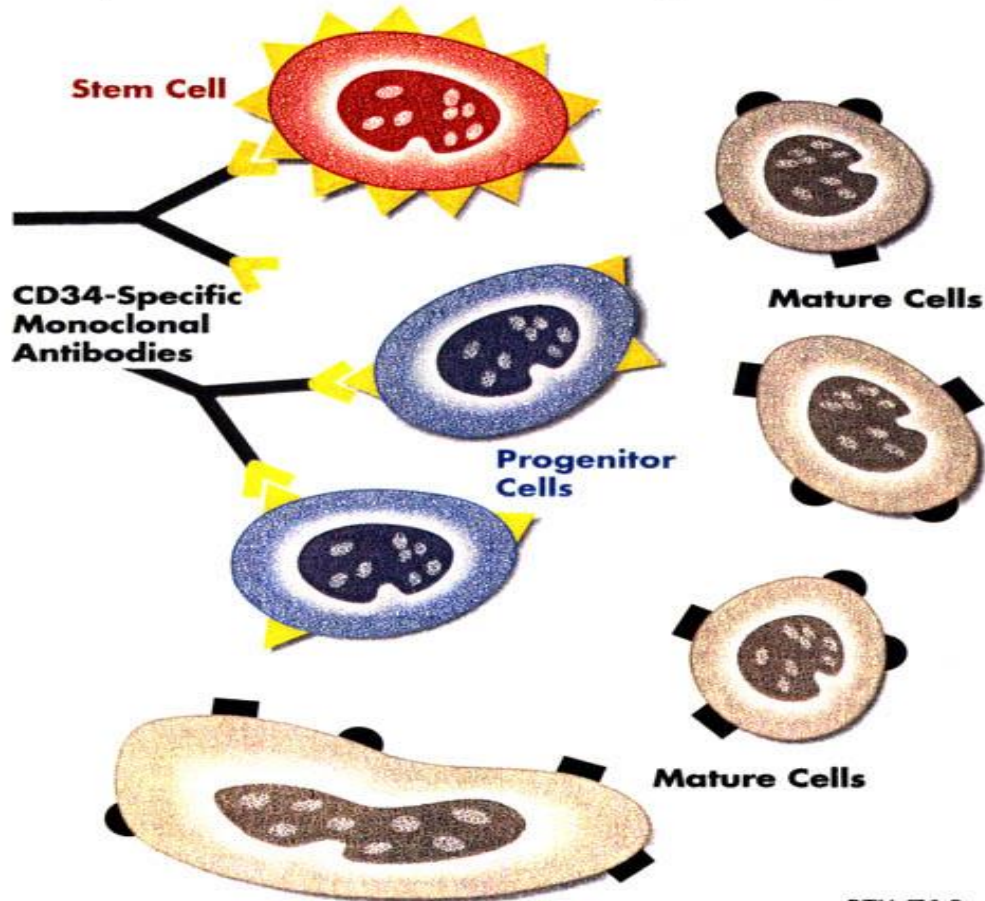
Analysis of genes and microRNAs expressed in several types of stem cells, including cancer stem cells



Blood forming stem cell transplant: Icon

PURIFYING STEM CELLS WITH CD34 SPECIFIC MONOCLONAL ANTIBODIES

CD34-Specific Antibodies Bind to Stem & Progenitor Cells



PTX 718

