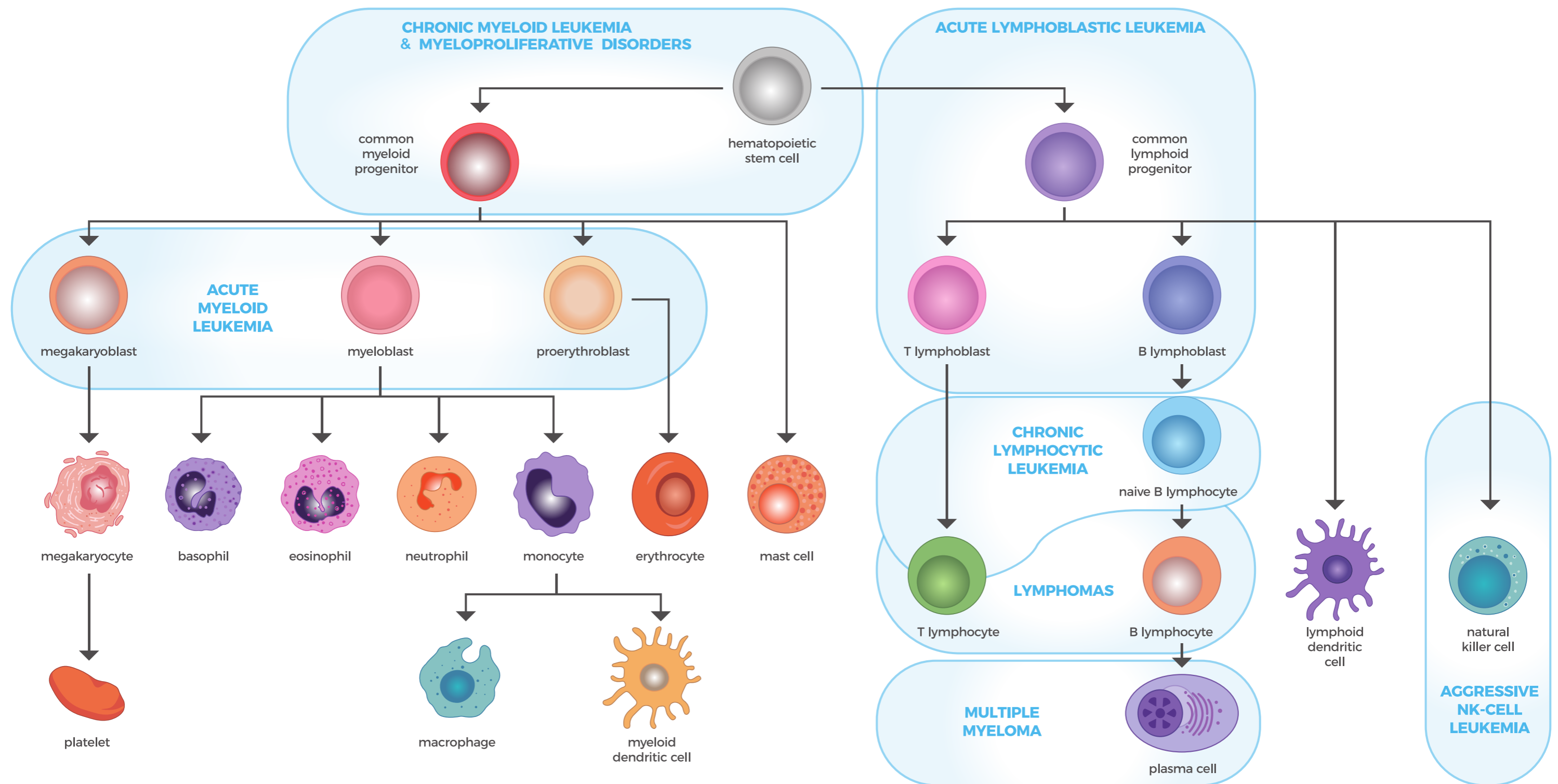


THE SCHEME PRESENTING THE PROCESS OF ONCOGENESIS WITHIN HEMATOPOIESIS (BLOOD FORMATION)



The scheme presents the process of hematopoiesis (blood formation). All types of mature blood cells (at the bottom of the scheme) arise as a result of maturation of hematopoietic stem cells (at top of the scheme). In the first stage, hematopoietic stem cells differentiate towards more mature lymphoid or myeloid progenitor cells, which further develop into "blasts" - precursors of mature blood cells. This is a complicated and multi-stage process, and its disturbances (e.g. due to genetic mutations) might result in the development of hematological cancers. Depending on the stage of hematopoiesis, at which the maturation disturbance occurs, different types of blood cancers develop, as indicated with the blue clouds on the scheme.