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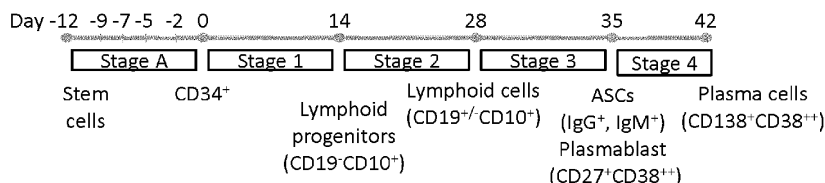


Figure 1

(57) Abstract: Disclosed are methods and compositions for generating B lineage cells, such as plasmablasts, plasma cells, and protein-producing or protein-secreting B cells. The methods may relate to stage-specific differentiation from stem cells or stem-cell derived hematopoietic progenitors through one or more intermediates to B lineage cells, such as plasmablasts, plasma cells, and protein-producing or protein-secreting B cells.

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