A microscopic view of various cells, likely stem cells, showing their complex internal structures and nuclei. The cells are stained in shades of purple, pink, and blue, highlighting their intricate details.

Le cellule staminali, da qualche decennio al centro della ricerca scientifica, hanno sollevato grandi speranze per le possibilità terapeutiche che sembrano dischiudere.

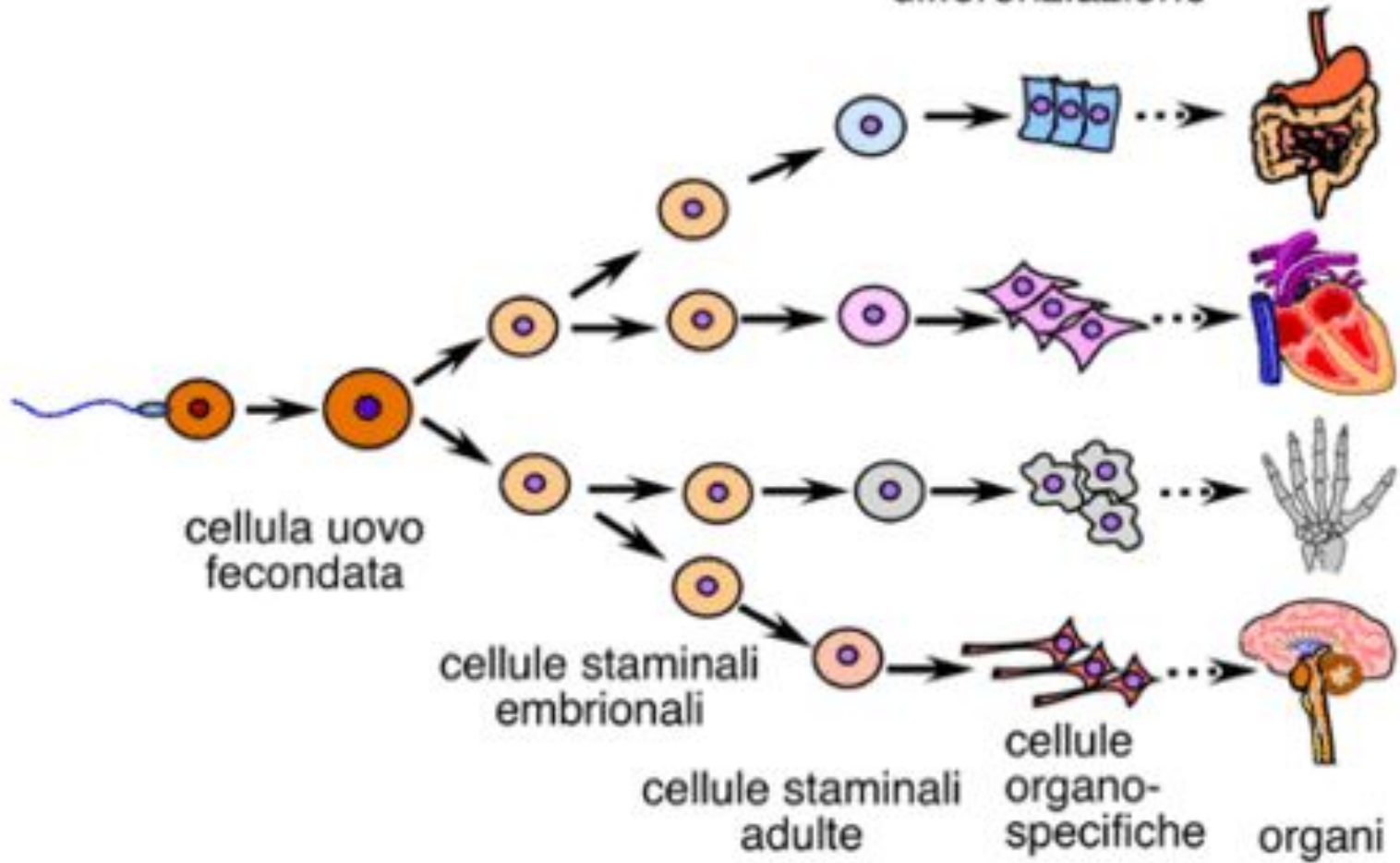
Secondo molti scienziati queste cellule rappresentano il futuro della medicina, in quanto potrebbero permettere di curare malattie al momento incurabili.

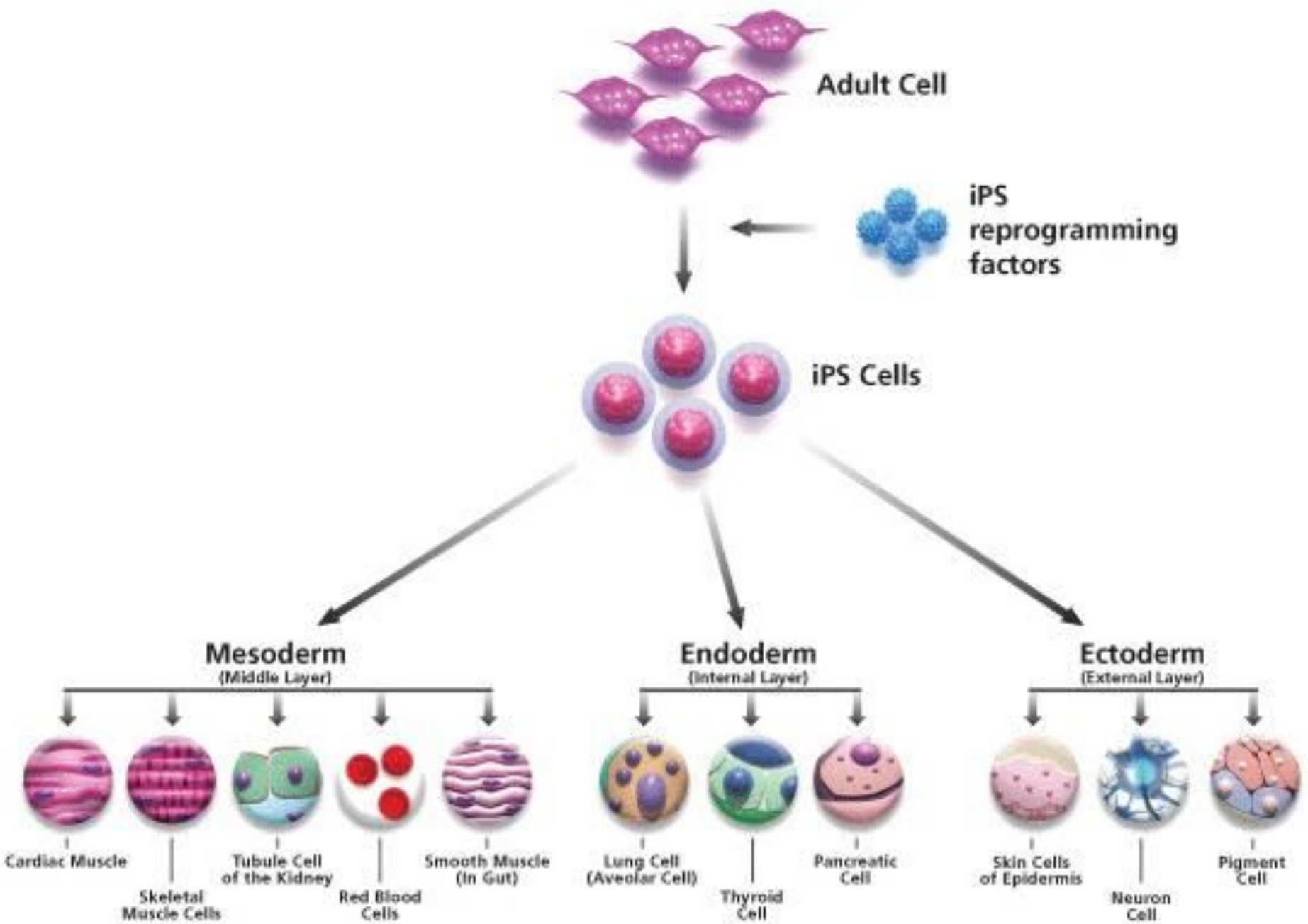
Allo stesso tempo, la ricerca sulle cellule staminali ha provocato un grande dibattito nella società perché il loro studio comporta in alcuni casi la distruzione di embrioni umani.

geni attivi



differenziazione







una singola cellula
staminale può....



.....replicare
se stessa



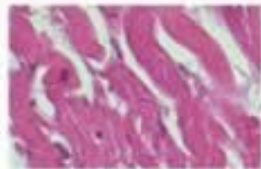
....differenziarsi in diversi
tipi di cellule



Cellule staminali liquido amniotico



Smooth muscles



cardiac muscles



Skeletal muscles



Tendons



Dermal tissues



Neurons



Chondrocytes



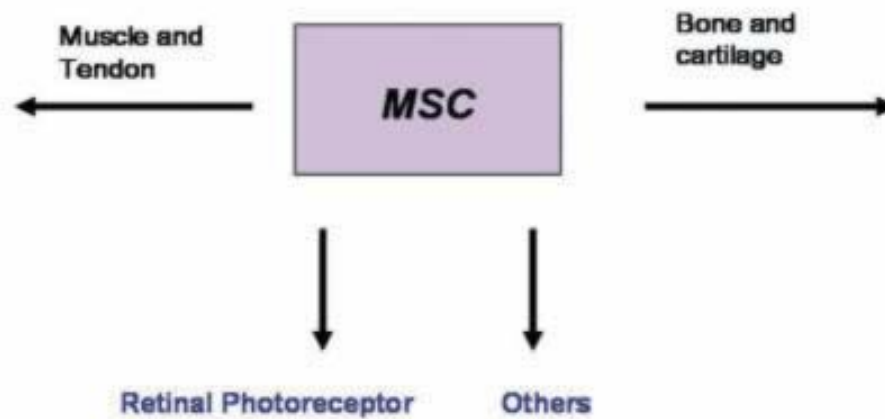
Osteocytes

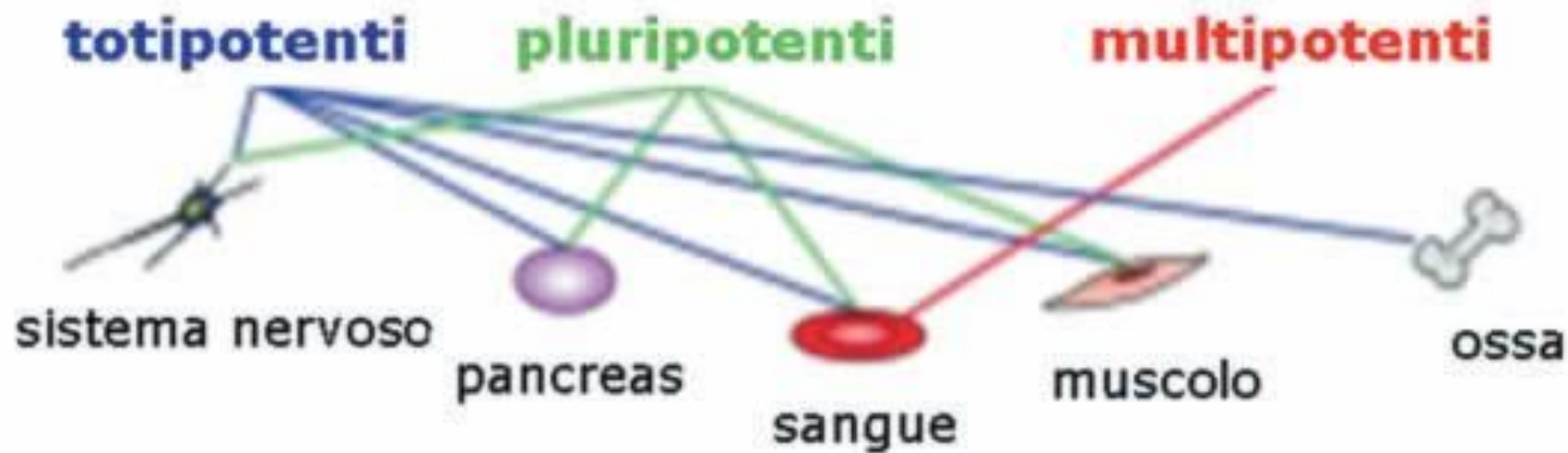
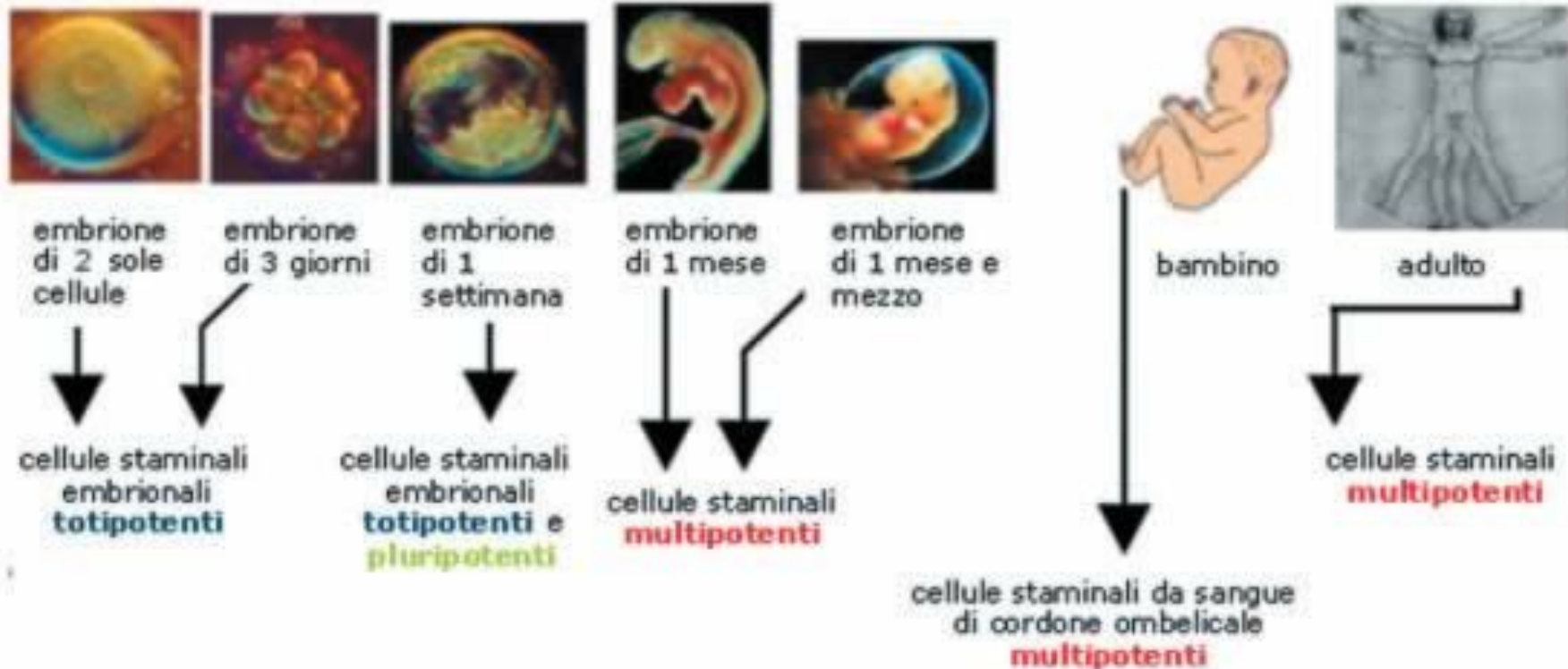


Adipocytes



Teeth





LA CELLULA STAMINALE
EMOPOIETICA



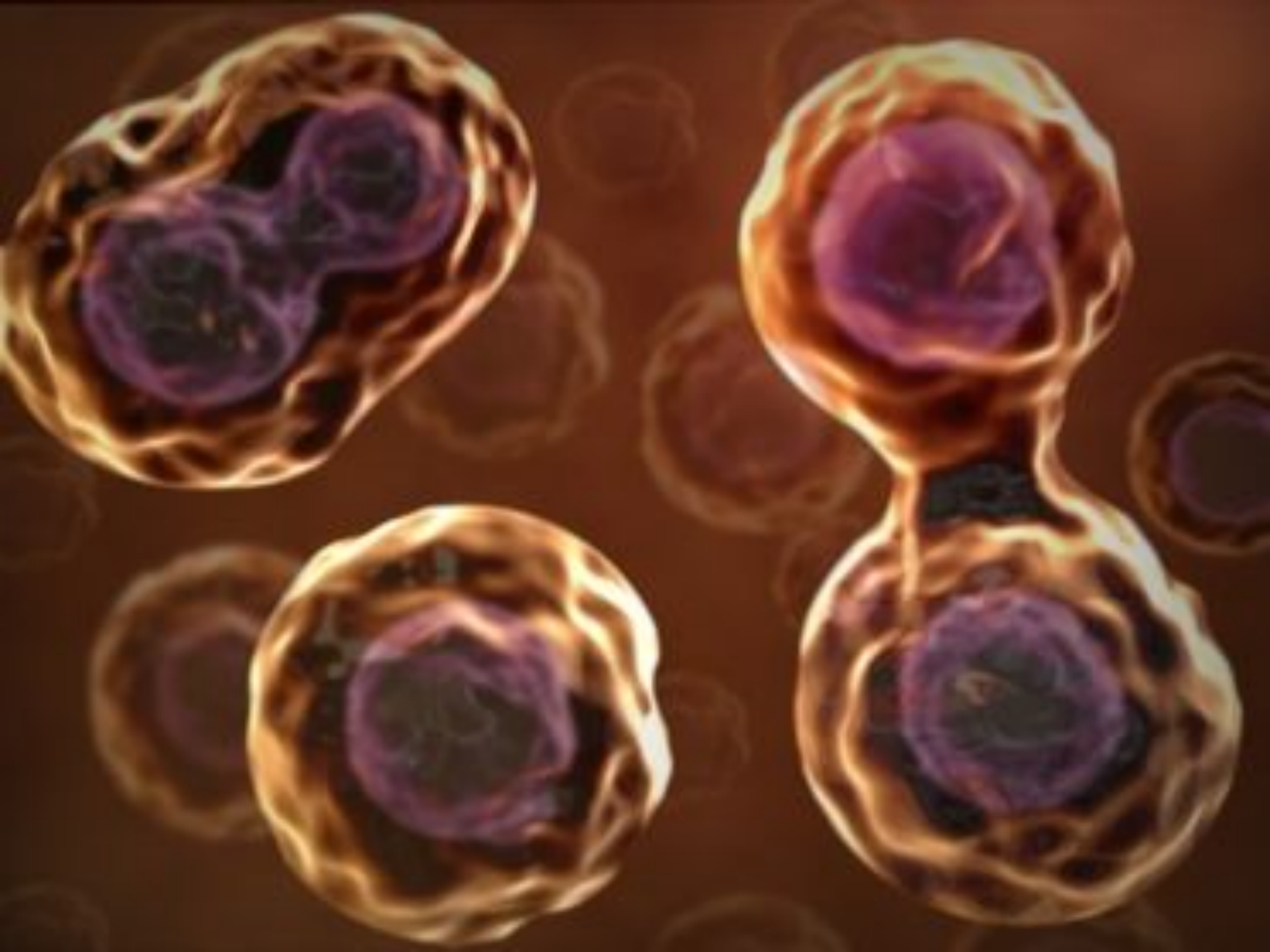
GLOBULI ROSSI

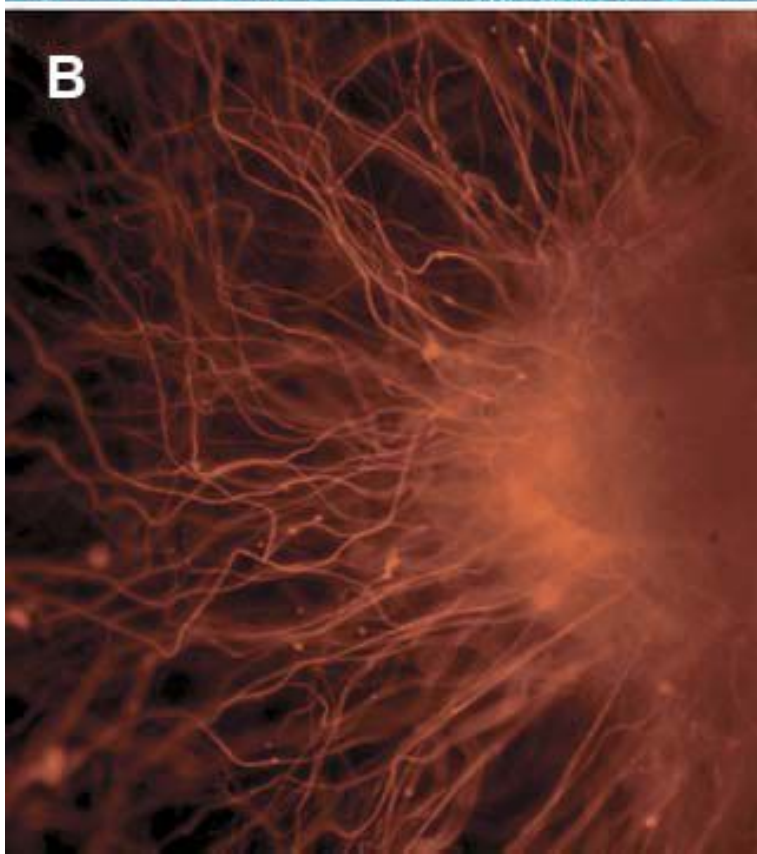
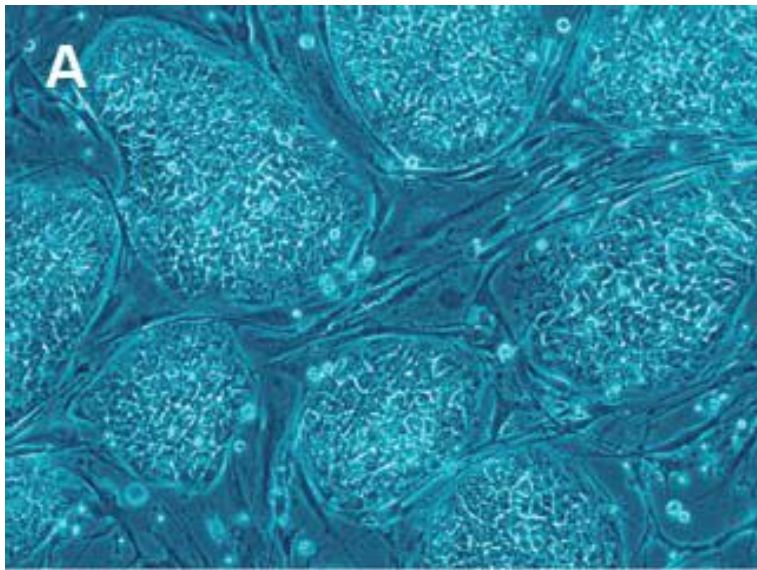


GLOBULI BIANCHI



PIASTRINE

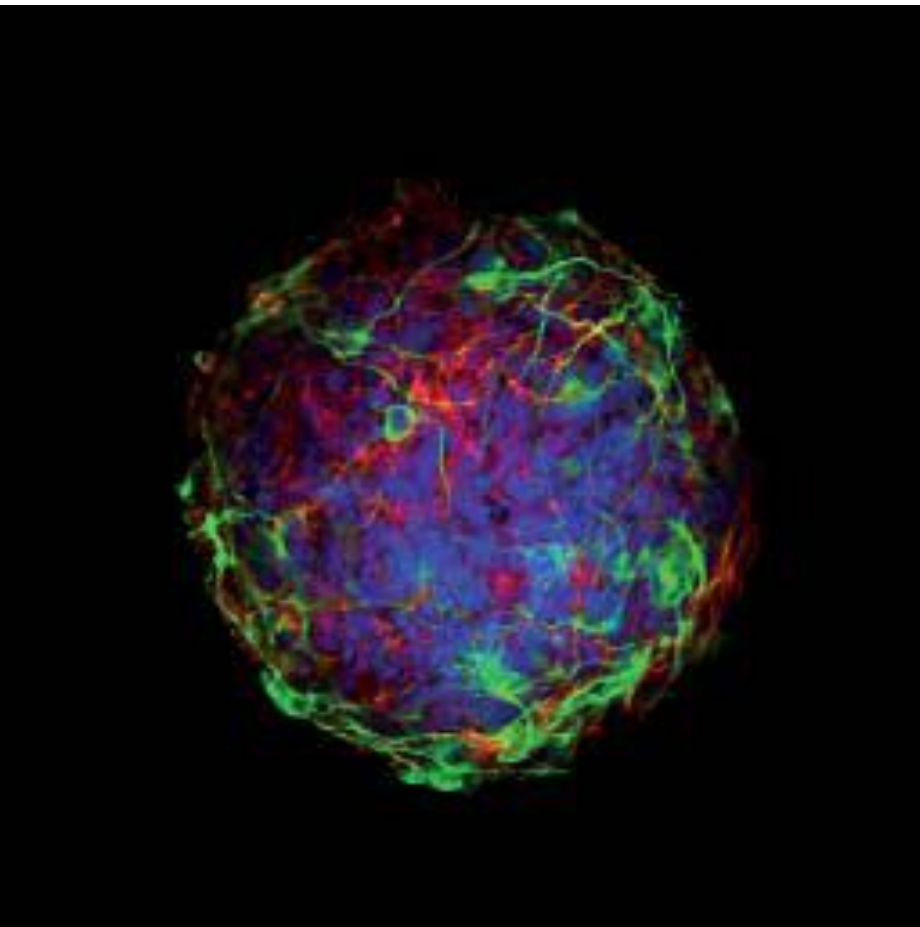




A: cellule staminali
embrionali

B: cellule specializzate
derivate da esse

Agglomerato di staminali
adulte neurali



Cellule staminali
mesenchimali

