VISION FOR THE FUTURE

CURRENT GLOBAL POSITION:

SURGICALLY ON PAR WITH :

USCA NORTH AMERICA

GBFRDE EUROPE

KRJPVN THE REST OF THE WORLD

PAKISTAN CAN ERADICATE HAIR LOSS

HAIR LOSS PREVENTION

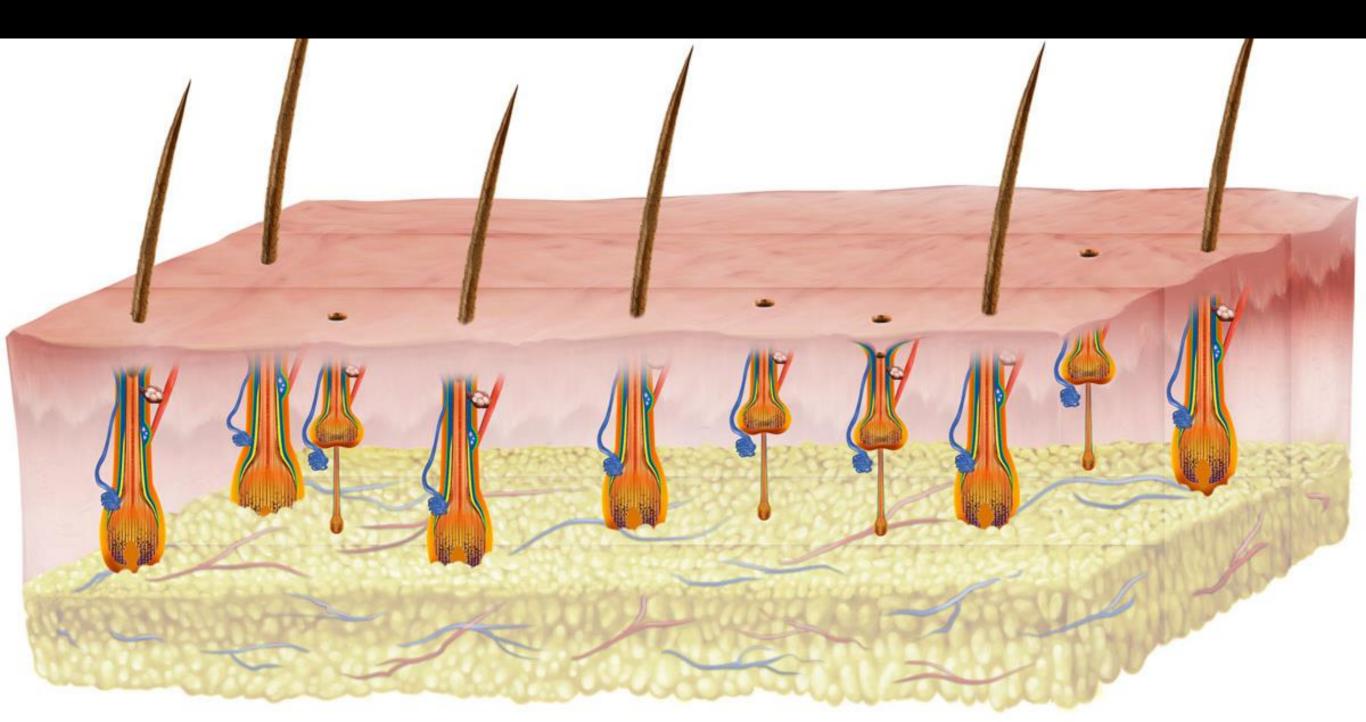


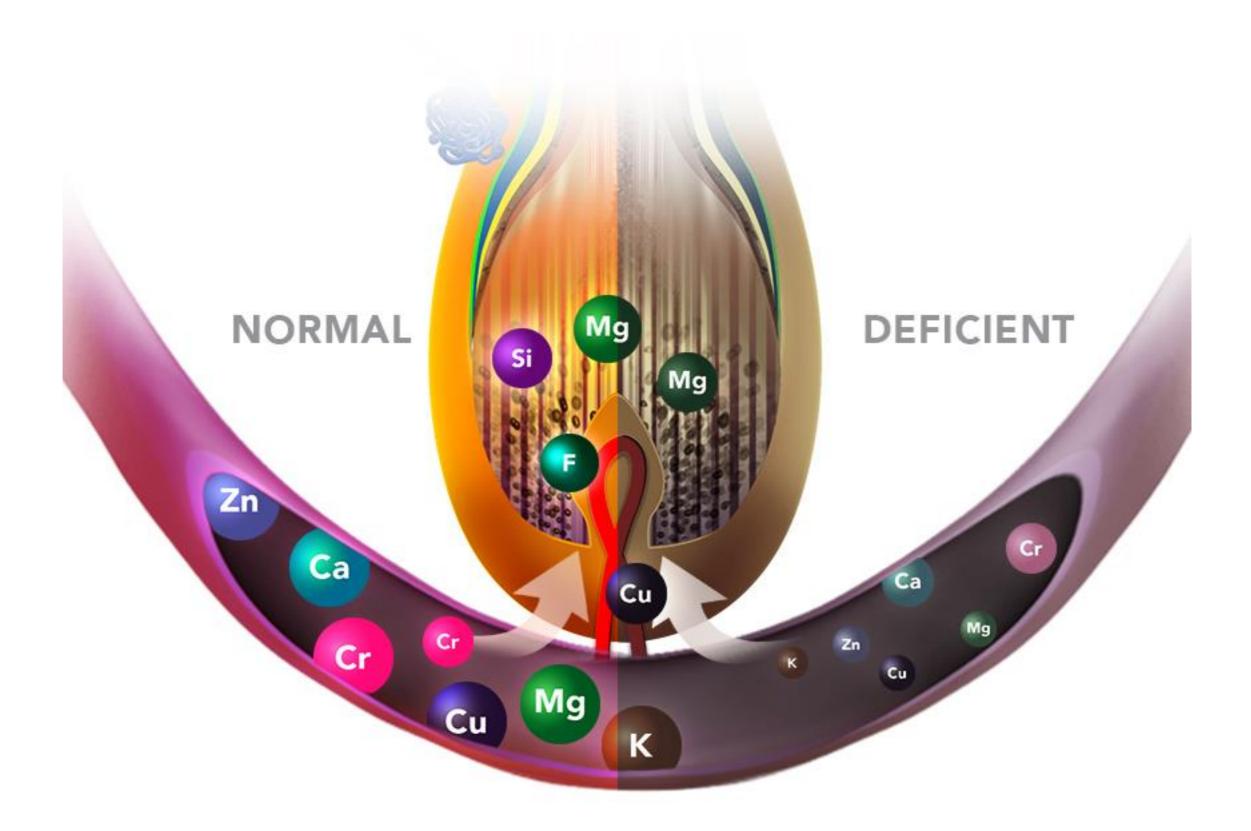
CUBA

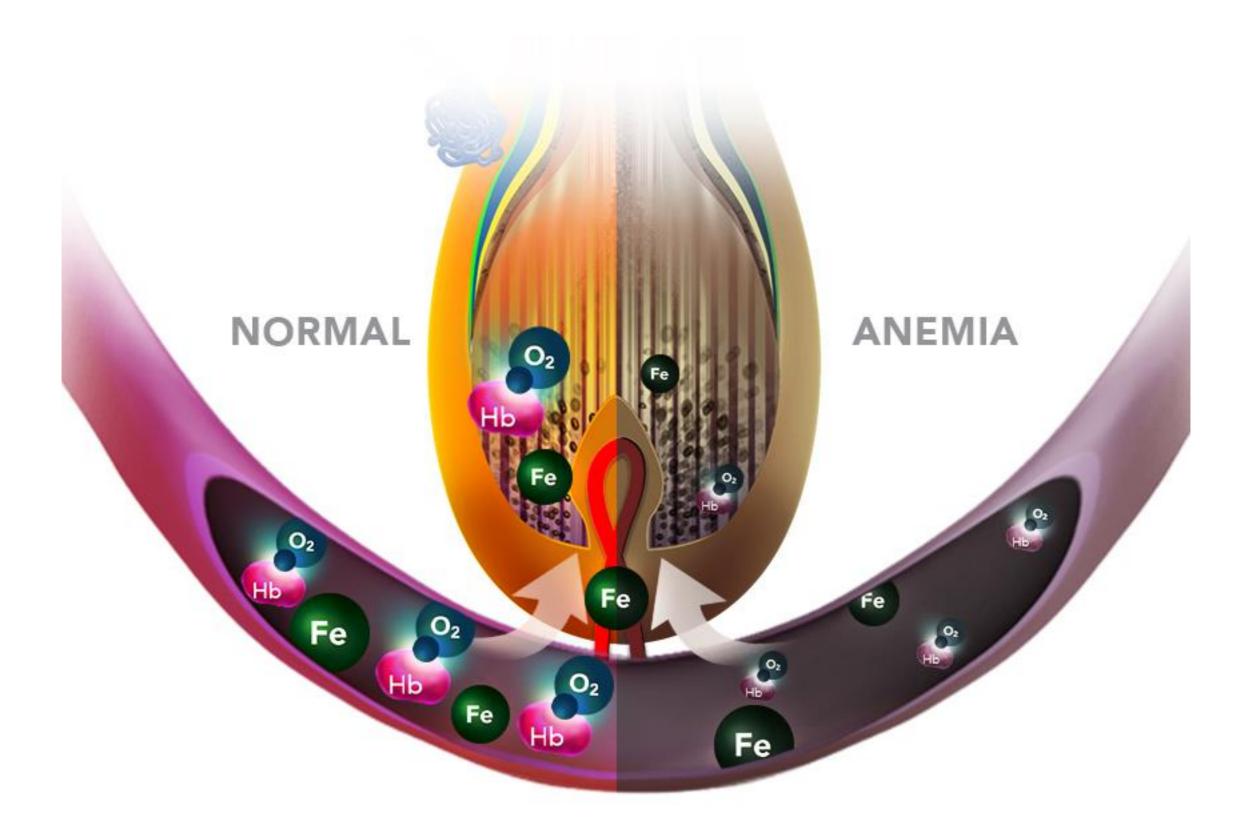
- Old fashioned house calls
- Vaccines
- Prevention as priority

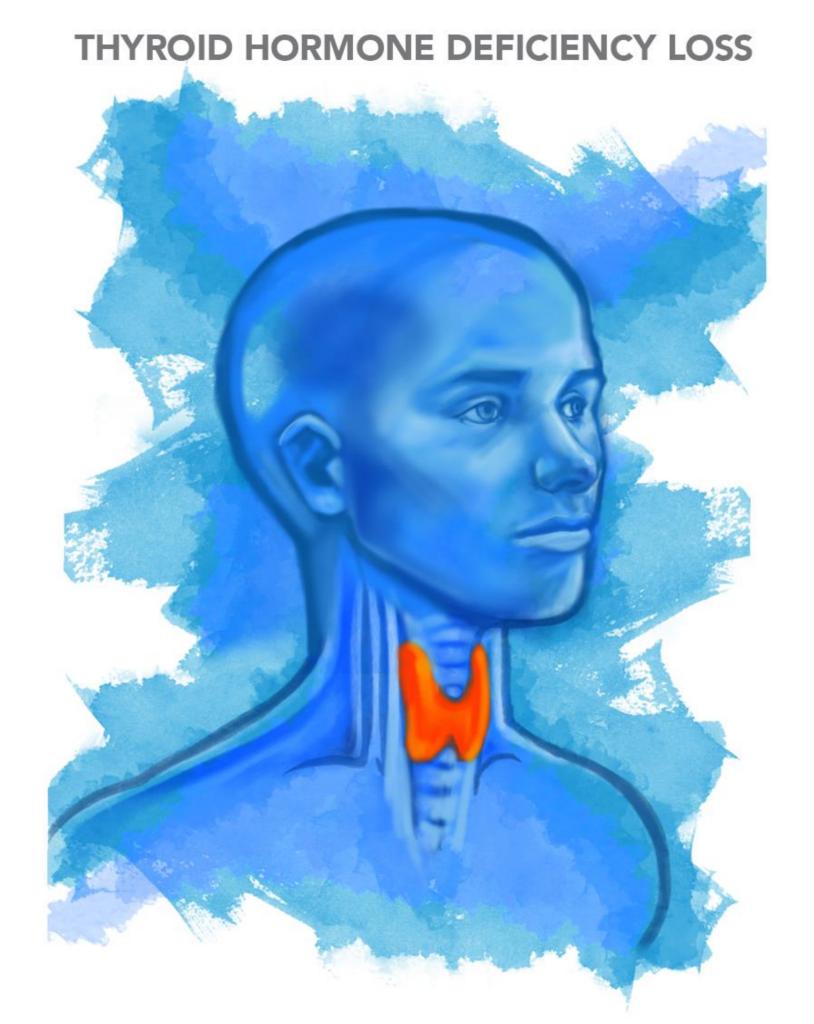


TELOGEN EFFLUVIUM



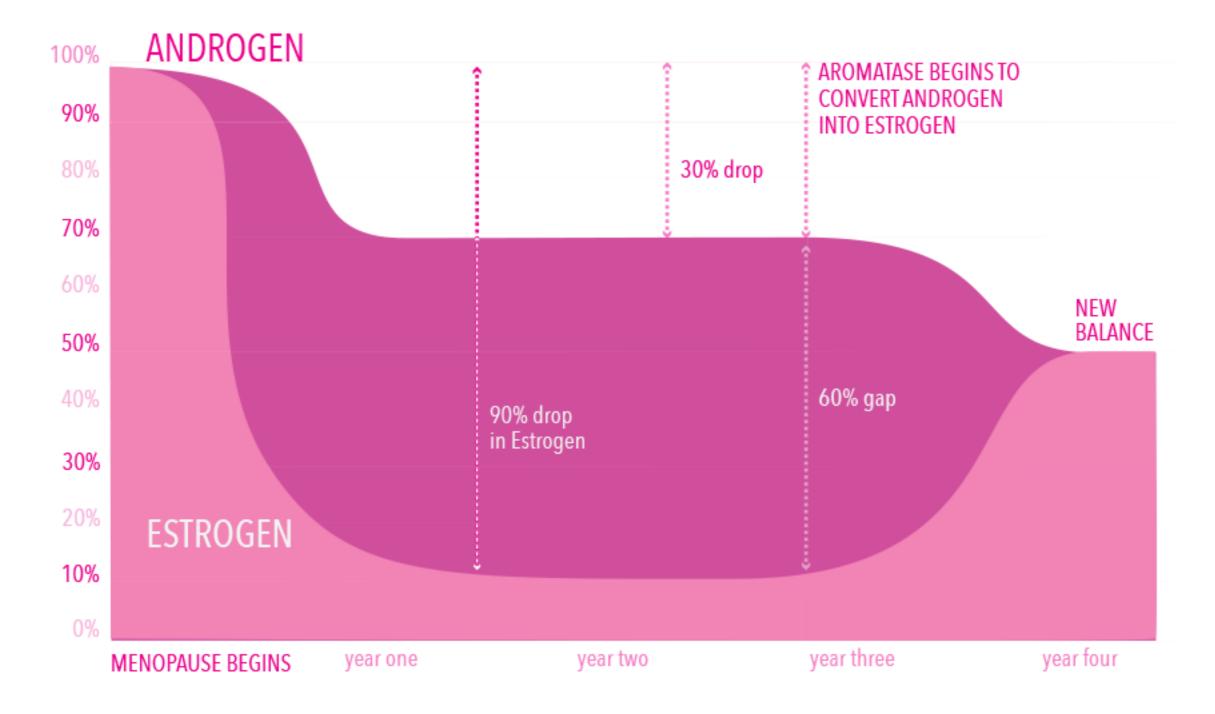




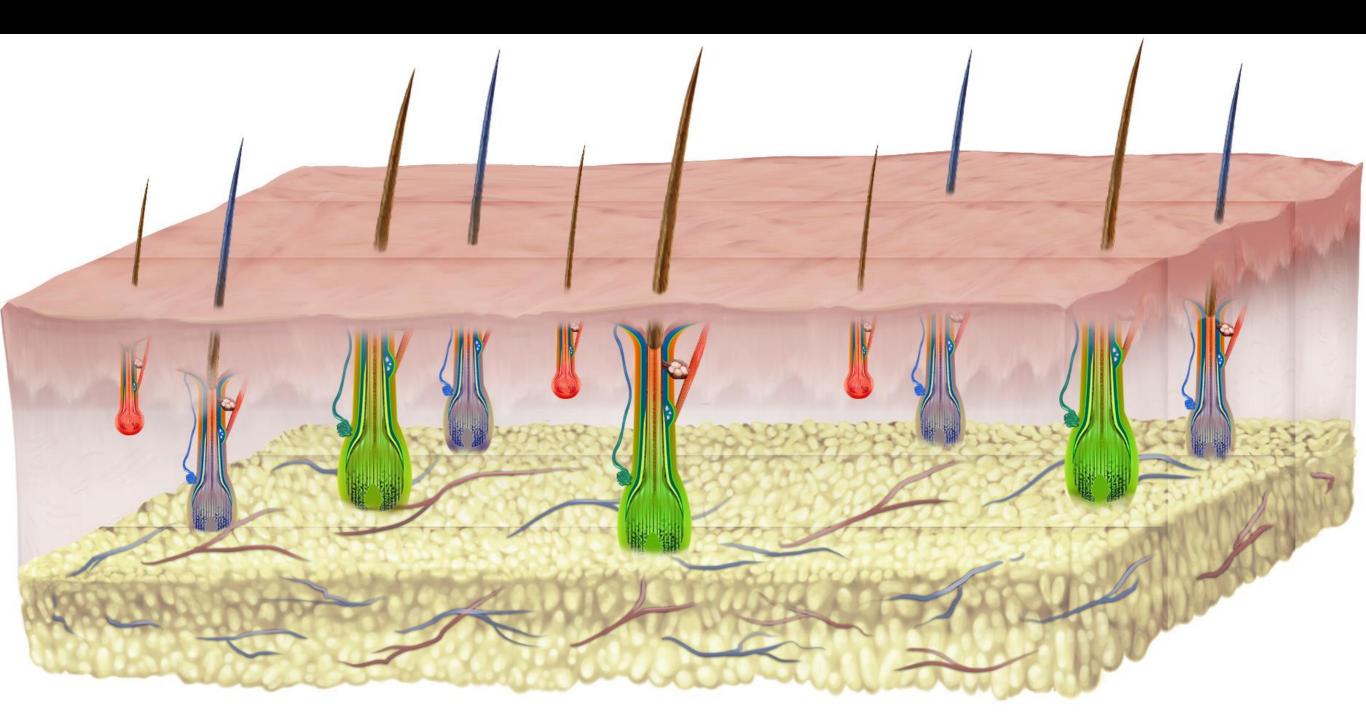


SUBSTITUTING MEDICINES VISELY

MENOPAUSAL HAIR LOSS

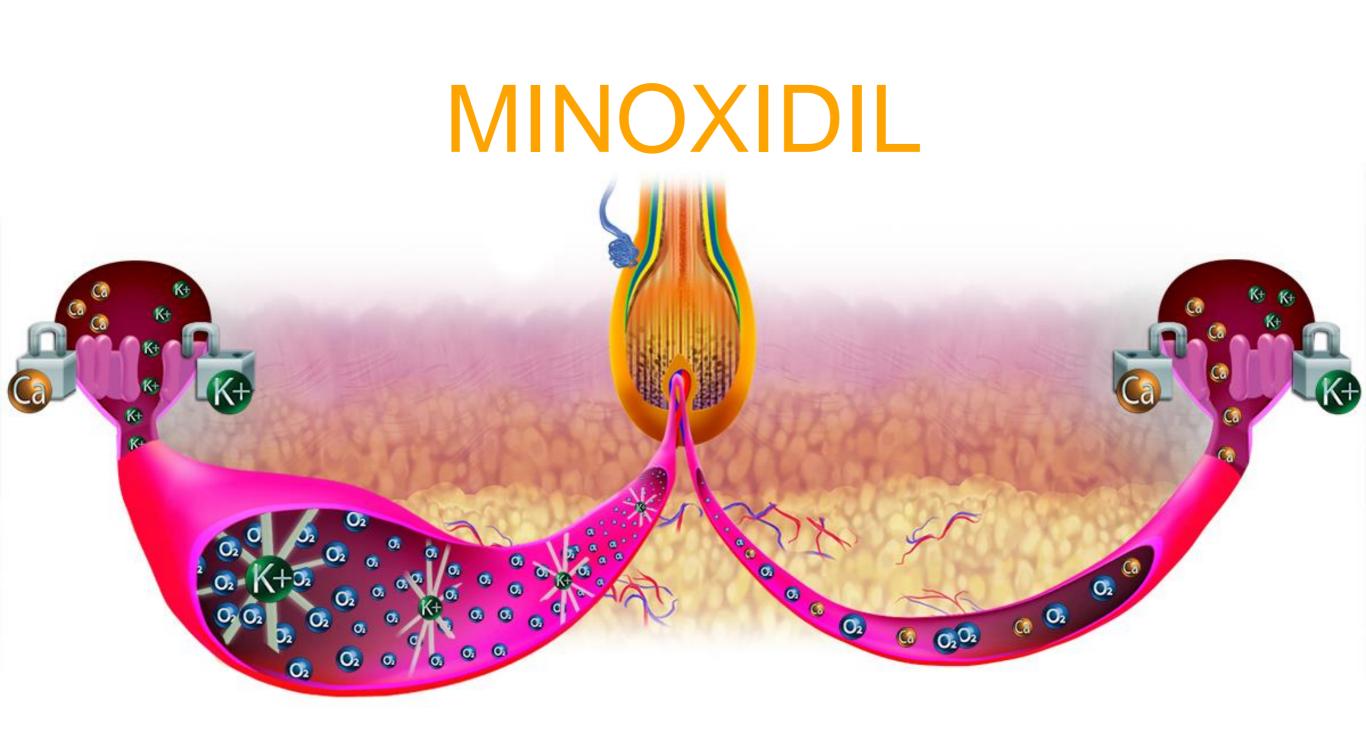


PROGRESSIVE MINIATURIZATION





SAJJAD KHAN 2016 ILHT.COM



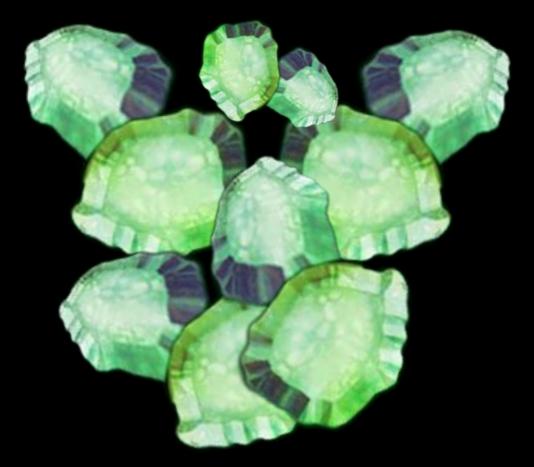
HAIR LOSS RESEARCH

PAKISTAN: A LOT OF ROOM TO GROW

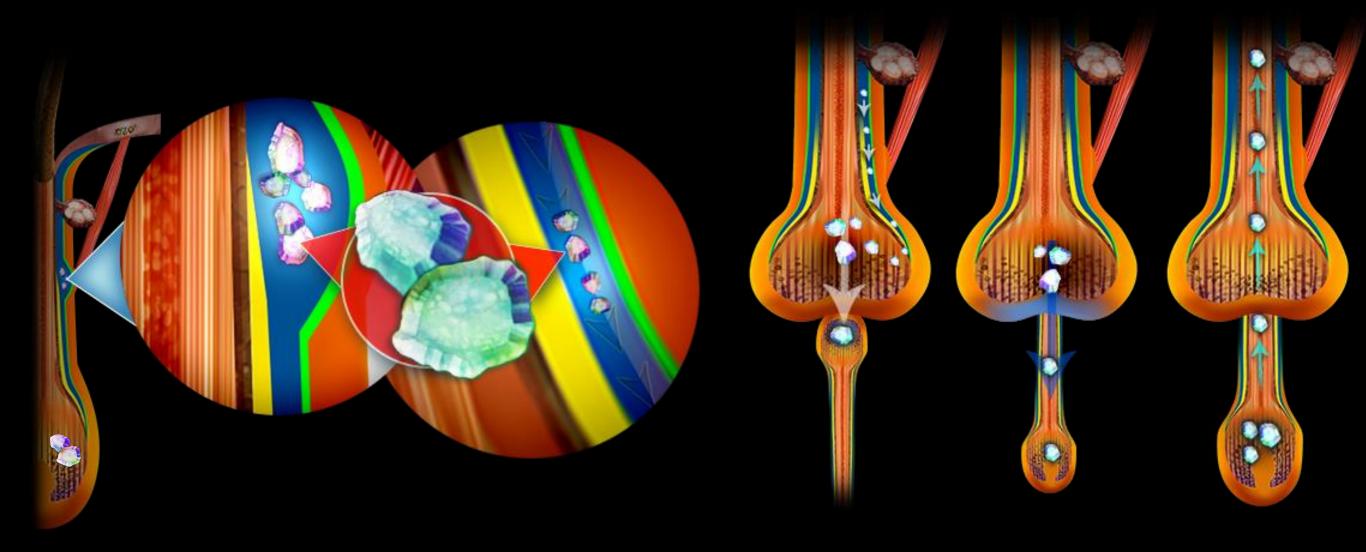
GLOBAL RESEARCH FOCUS:

PLURIPOTENT STEM CELLS

- Nestin expressing hair associated pluripotent stem cells in bulge and dermal papilla
- In culture differentiation begins
- It can repair spinal cord and
- Sciatic nerve damage
- Can produce cardiac muscle cells
- Melanocytes
- Elongation of Hair shaft
- Used for regenerative Medicine

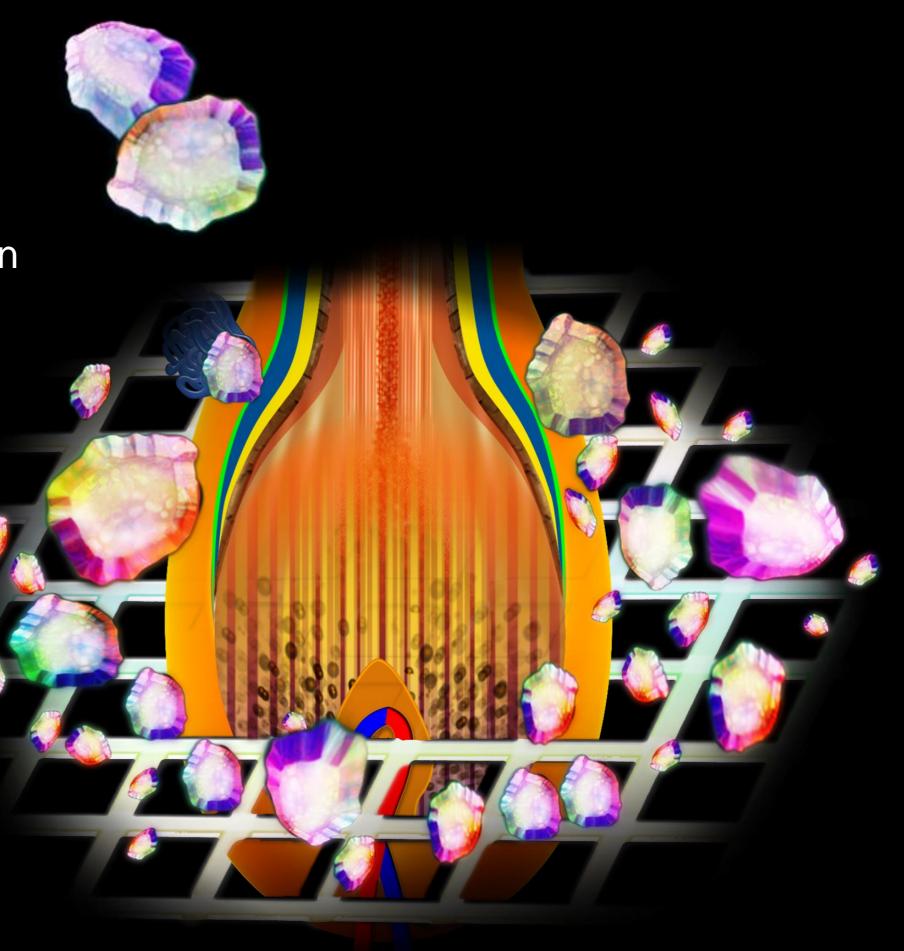


PLURIPOTENT STEM CELLS



HOX-C8

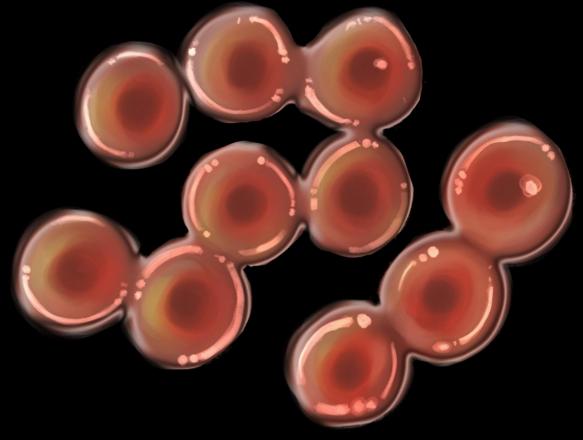
 Homeobox protein Hox-c8 expressed in dermal papilla has inductive capacity allowing for hair regrowth



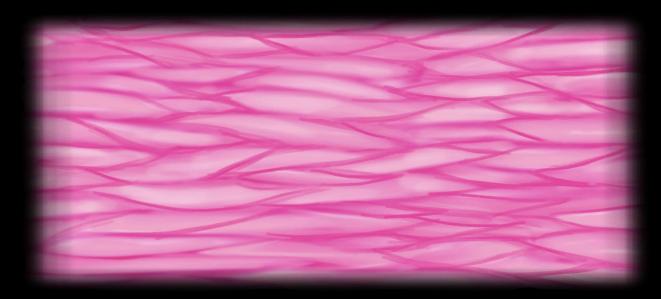
2D CULTURE VS 3D CULTURE

- 3 D culture of human scalp DP
- Placed between epidermis and dermis
- Up regulation of secreted frizzled protein
- Alkaline phosphatase
- Activin A (Most important)
- Wnt/beta-catenin signalling a DP signature pathway

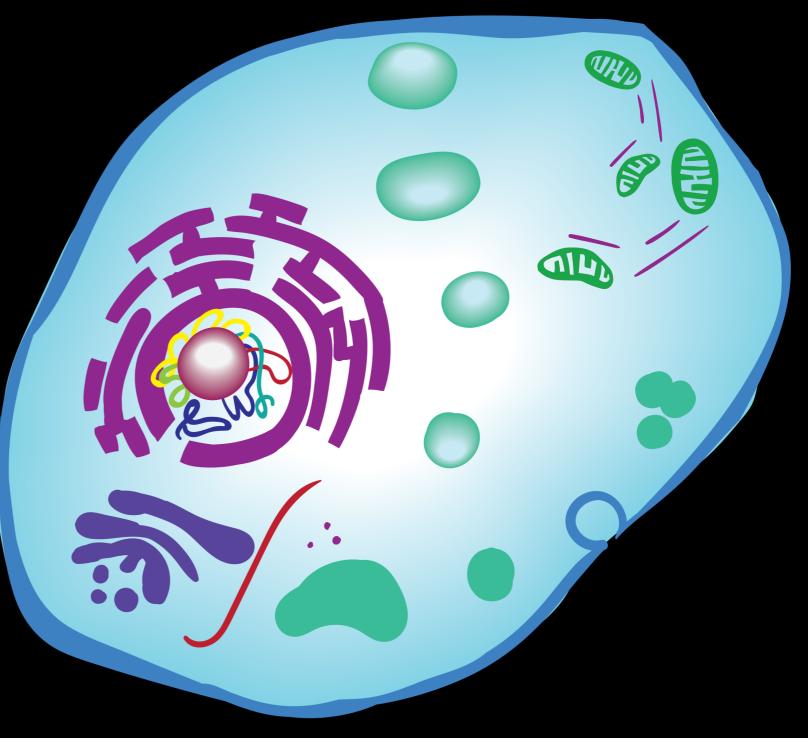
3D Cellular Culture



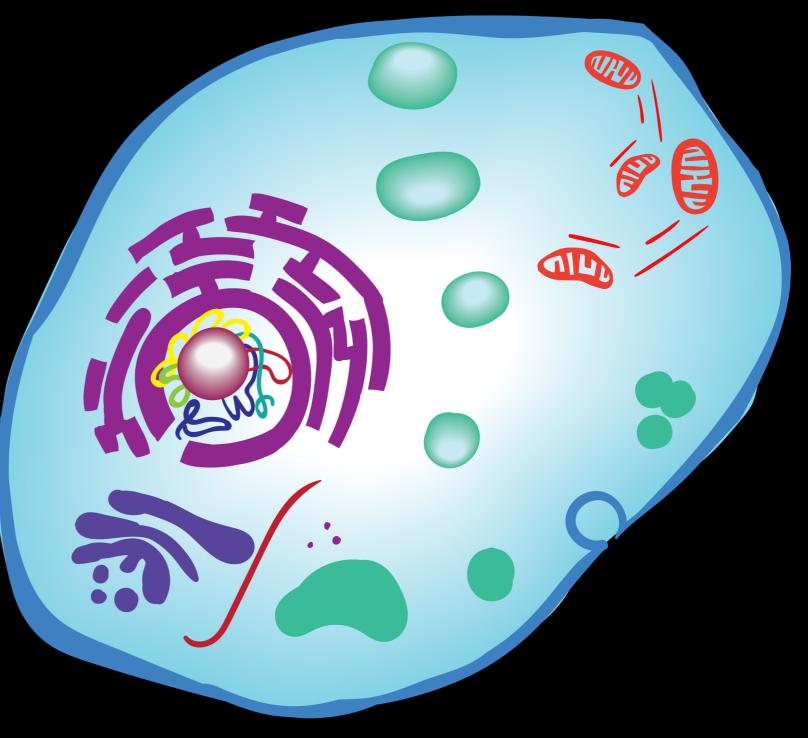
2D Cellular Culture



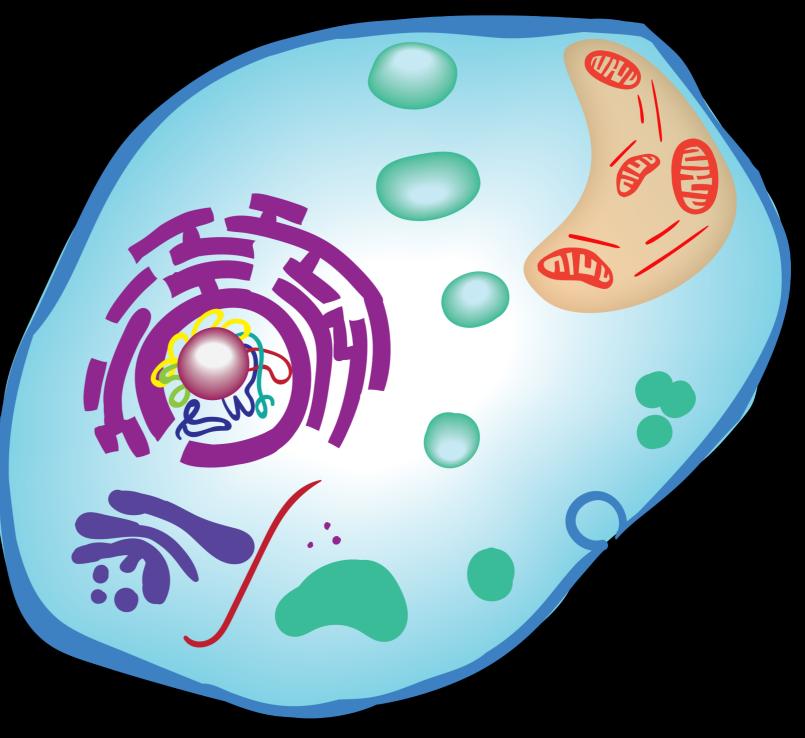
- Is a process of cellular recycling commonly observed during stress. It enable the cell to survive and lives for longer period of time.
- LC38 expression is highest in Anagen Phase



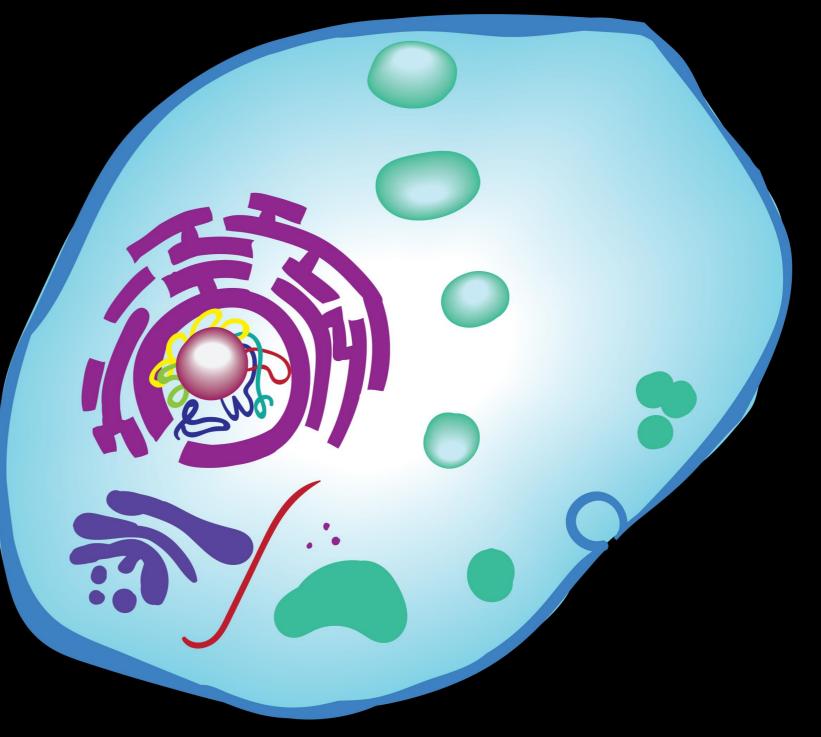
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LEARN FROM ONE ANOTHER

FAITH PRIORITIZE YOUR SERVICE

WHAT IS BEST FOR THE CLIENT?

- Don't get caught in your BIAS
- Let your preferred methods reflect the BEST methods available

DISCIPLINE VOCATION AS DUTY

