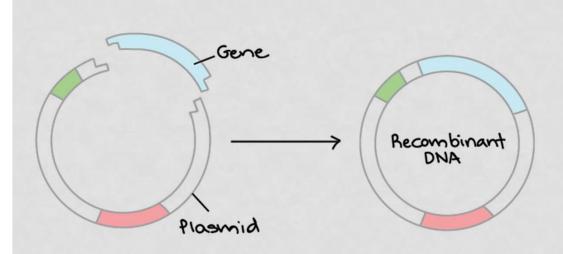
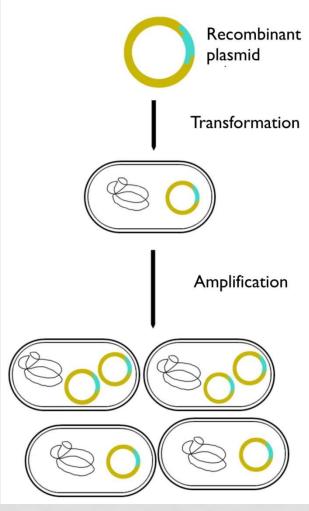
RECOMBINANT DNA AND CLONING

MOERI & BUDDHINI

WHAT IS RECOMBINANT DNA, CLONING?



https://omaharentalads.com/explore/puc19-vector-simple/#gal_post_7111_puc19-vector-rdna-technology-5.png 2019/6/19



http://usmle.biochemistryformedics.com/cloning/2019/6/28

TYPES OF CLONING

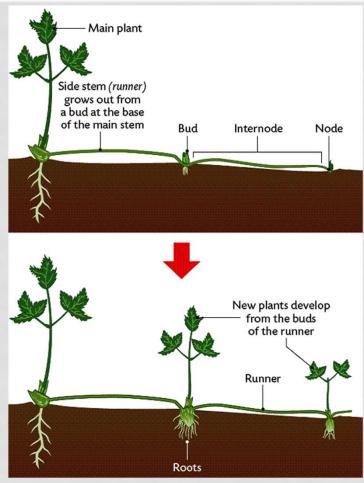
- Reproductive cloning: making genetically identical copy of organism
- Non-reproductive cloning/Therapeutic cloning: use of stem cells generate replacement cells, tissues or organs which may be used to treat particular diseases or conditions in humans.

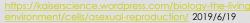
CLONING IN PLANT & ANIMALS

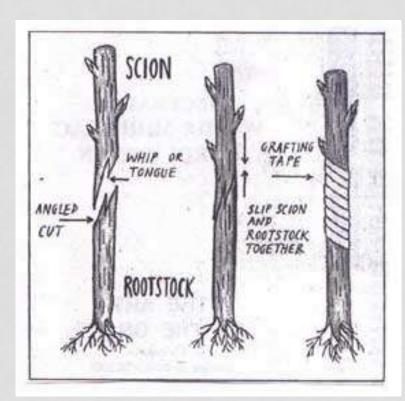
CLONING PLANTS FROM SINGLE CELLS

- Traditional methods
- Artificial methods

TRADITIONAL





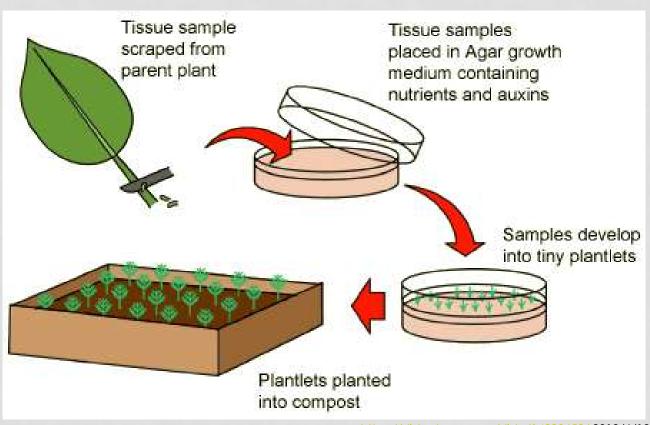


http://usmle.biochemistryformedics.com/cloning/ 2019/6/28

CUTTING

GRAFTING

ARTIFICIAL PLANT CLONING

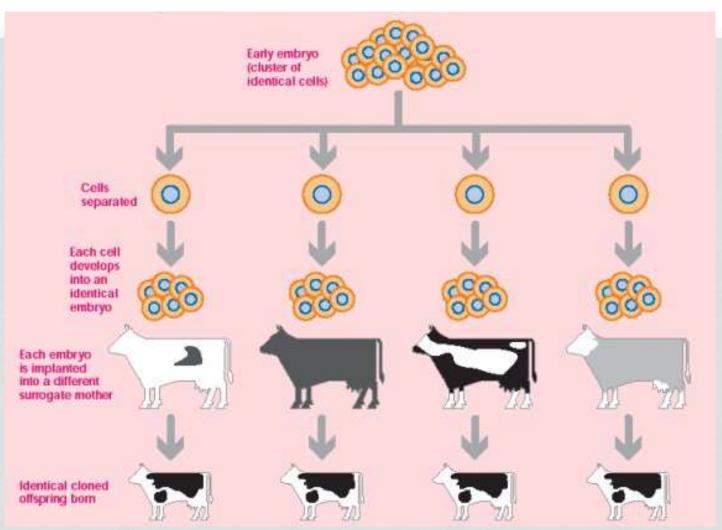


https://slideplayer.com/slide/14220659/ 2019/6/19

CLONING ANIMALS

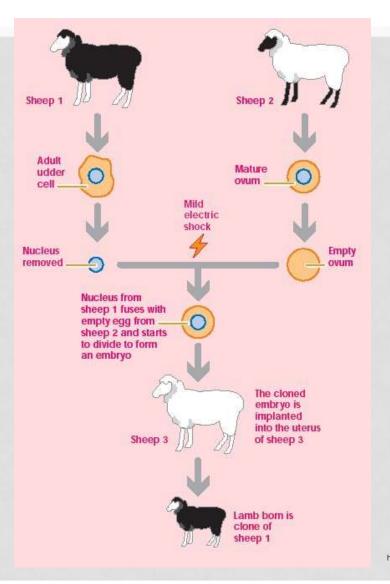
- TWO TECHNIQUES
 - Embryo splitting
 - Nuclear transfer

EMBRYO SPLITTING



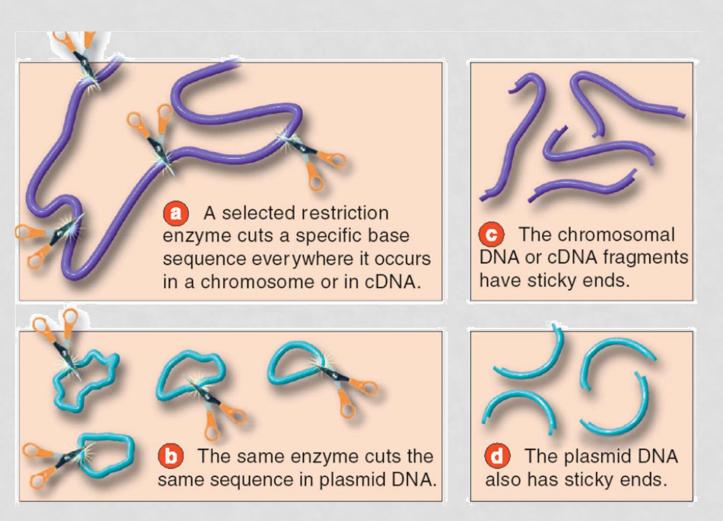
https://www.csus.edu/indiv/g/gaskilld/ethics/Cloninglect.htm 2019/6/28

NUCLEAR TRANSFER

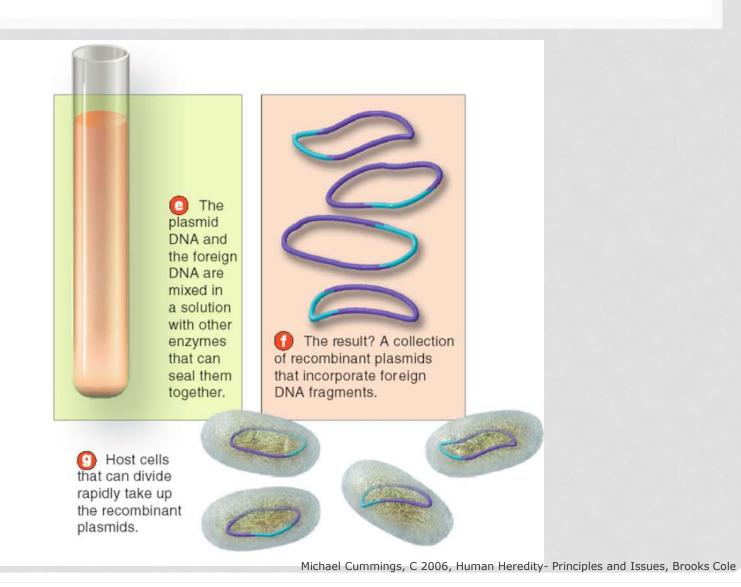


https://www.csus.edu/indiv/g/gaskilld/ethics/Cloninglect.htm 2019/6/28

OUTLINE OF GENE CLONING



OUTLINE OF GENE CLONING



THANK YOU FOR LISTENING ©