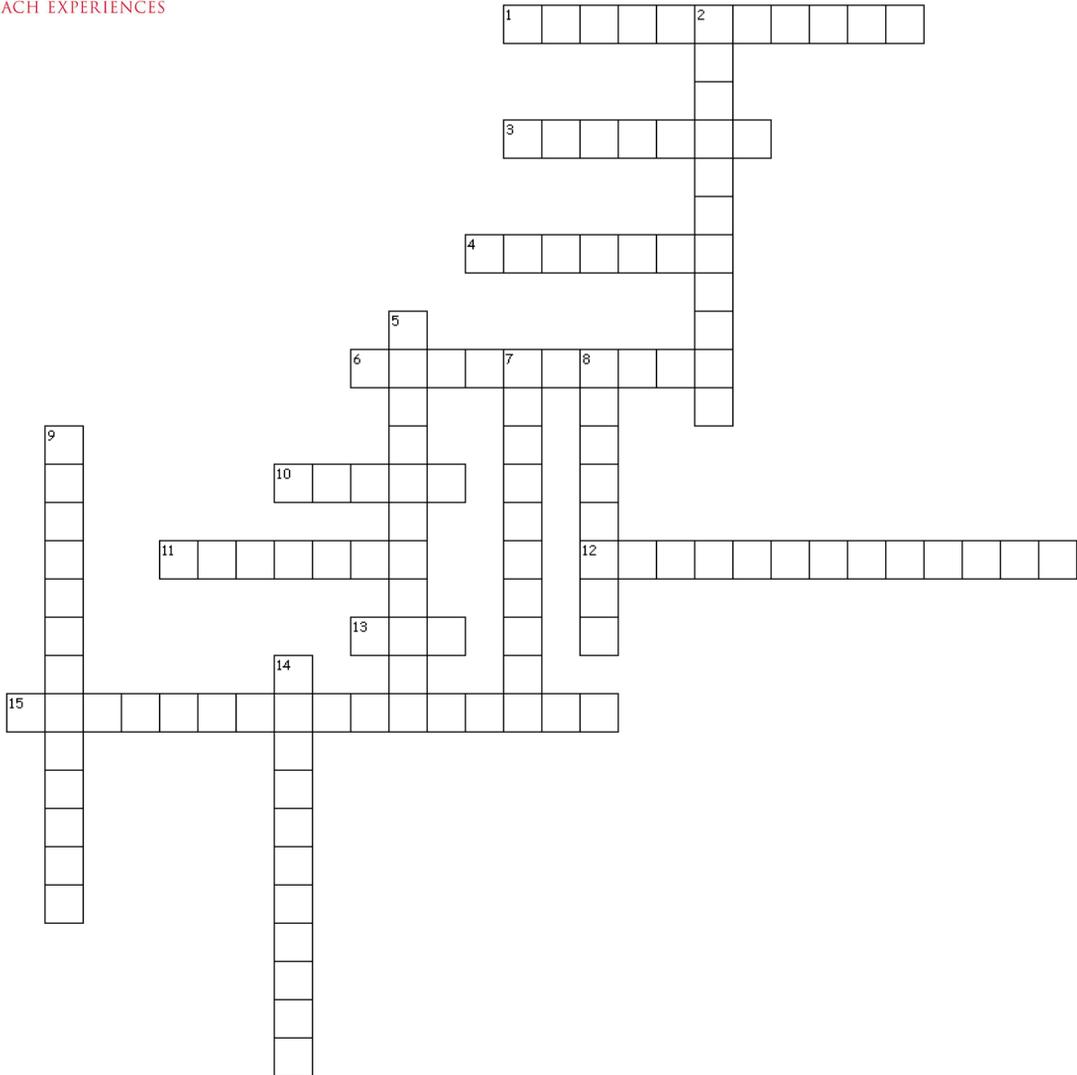




Stem Cell Crossword



Across

1. cells capable of differentiating into limited cell types
3. completely free from living germs or microorganisms
4. the cultivation of cells for scientific studies
6. 5-day old pre-implantation embryo
10. the liquid food containing all of the components and nutrients required for cell growth
11. "in glass" (2 words)
12. the small group of pluripotent cells in a blastocyst from which embryonic stem cell lines are derived (3 words)
13. the mouse "feeder layer" on which human embryonic stem cells are cultured (abbr.)
15. unspecialized or "like a blank slate"

Down

2. to divide and grow
5. cells capable of differentiating into all fetal or adult cell types
7. cells capable of differentiating into all cell types, including the placenta
8. all of the stem cells derived from a single blastocyst (2 words)
9. to become more specialized or to acquire a special function
14. these cells comprise the outer layer of the blastocyst, and develop into placental cells



Human Embryonic Stem Cell Crossword Key

Across

1. multipotent- cells capable of differentiating into limited cell types
3. sterile- completely free from living germs or microorganisms
4. culture- the cultivation of cells for scientific studies
6. blastocyst- 5-day old pre-implantation embryo
10. media- the liquid food containing all of the components and nutrients required for cell growth
11. invitro (*in vitro*)- in glass
12. innercellmass (inner cell mass)- the small group of pluripotent cells in a blastocyst from which embryonic stem cell lines are derived
13. MEF (mouse embryonic fibroblast)- the mouse “feeder layer” on which human embryonic stem cells are cultured (abbr.)
15. undifferentiated- unspecialized or “like a blank slate”

Down

2. proliferate- to divide and grow
5. pluripotent- cells capable of differentiating into all fetal or adult cell types
7. totipotent- capable of differentiating into all cell types, including the placenta
8. cellline (cell line)- all of the stem cells derived from a single blastocyst
9. differentiate- to become more specialized or acquire a special function
14. trophoblast- these cells form the outer layer of the blastocyst, and develop into placental cells