

Name: _____ Answer Key _____ Section: _____

PBS Nova: Life's Greatest Miracle Movie Worksheet

Please answer the following questions as you watch. This sheet will be collected at the end of the movie for a class grade.

What is DNA "very good" at? making copies of itself

What risk is there for a species that only reproduces by cloning? everyone would have the exact same immune system, and one successful parasite could wipe us all out.

How many sperm are produced by the average human male? a thousand new sperm every second. That's about a hundred million new sperm every day and more than two trillion over a lifetime.

How many chromosomes come from each parent? Exactly half of those, 23, came from your mom, and 23 came from your dad

What happens to the genes when two chromosomes "embrace"? They cling so closely, big chunks carrying whole bunches of genes get exchanged between the partners

What is the advantage of diversity within a species? Higher chances of survival of a new generation.

When does a human female produce her eggs? in the fetus

What do the support cells do with the egg? tend to the egg, feeding it until it grows fat. Oozes out of the ovary with egg

Inside the fallopian tube, how long does the egg have to get fertilized? What happens if it doesn't?
With a few hours it will die

What are some changes that happen in the body when "love is in the air"? body temp rises, skin sweats, heartbeat and breathing get faster, hormones cue blood vessels to relax in man allowing penis to fill with blood

What is the immediate danger which confronts sperm in the vagina? Acidity

What are some ways the women's body helps control the success of the sperm? in the cervix, the mucous becomes watery and forms tiny channels that guide the sperm, uterine muscle contractions propel the sperm into fallopian tube, cilia in fallopian tubes release chemical that alter the sperm's outer coating.

What does the sperm need in order to be allowed through the egg's zona? Proteins protruding from sperm's head must hook up precisely with a set of proteins on the egg's surface

What percent of fertilized eggs fail to develop? 50%

What is happening as the fertilized egg moves down the fallopian tube toward the uterus? Every few hours it divides

Answers For Miracle Of Life Guide

J. P. Moreland



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