



American
Physiological
Society



I am a physiologist
who studies how
adverse fetal
development can
lead to diseases
later in life.

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To be a scientist, you need to:

1. Have critical thinking and a desire to learn.
2. Have ethical principles.
3. Persevere when faced with obstacles.
4. Form collaborations and work in teams.

One of my research questions:

How does low oxygen levels affect fetal heart development and coronary growth?

Technology I use:

In our experiments, we record the fetal heart rate, blood pressure, and take blood samples to measure blood gases (oxygen, carbon dioxide), pH, or other nutrients and hormones.

My most exciting discovery:

I found that acute hypoxia can cause the fetal brain to express more inflammatory genes, and certain drugs could potentially protect the baby's brain from hypoxic damage.

**I knew I wanted to be a scientist when...**

I learned that some babies are born with congenital heart diseases like blue baby syndrome. I wanted to invent medical devices and help these babies live a normal and healthy life.