

- complex of fetal and maternal membranes regulating exchange between fetal and maternal blood streams

Note

Australian "possum" vs. American "opossum"

### 3 extant lineages of mammals

#### 1. Monotremes

- lay and incubate eggs !
- produce milk but don't have nipples only 3 species (two echidna, one platypus)

Only in Australia and New Guinea

### 3 extant lineages of mammals

#### 2. Marsupials

- placental mammals that bear live young
- most have a pouch (some don't).

Most familiar: kangaroo, koalas, opossums, but there are more

Most all in Australia (but opossum is in N.A., even Ohio)

### 3 extant lineages of mammals

#### 3. Eutherians: placental mammals that

bear live young

Most of the hairy animals that you know

are this (although some aren't very

hairy, e.g., whales, dolphins,

elephants).

Some key features of mammals

- Endothermic
- Mammary glands
- Hair (and layer of subcutaneous fat)

