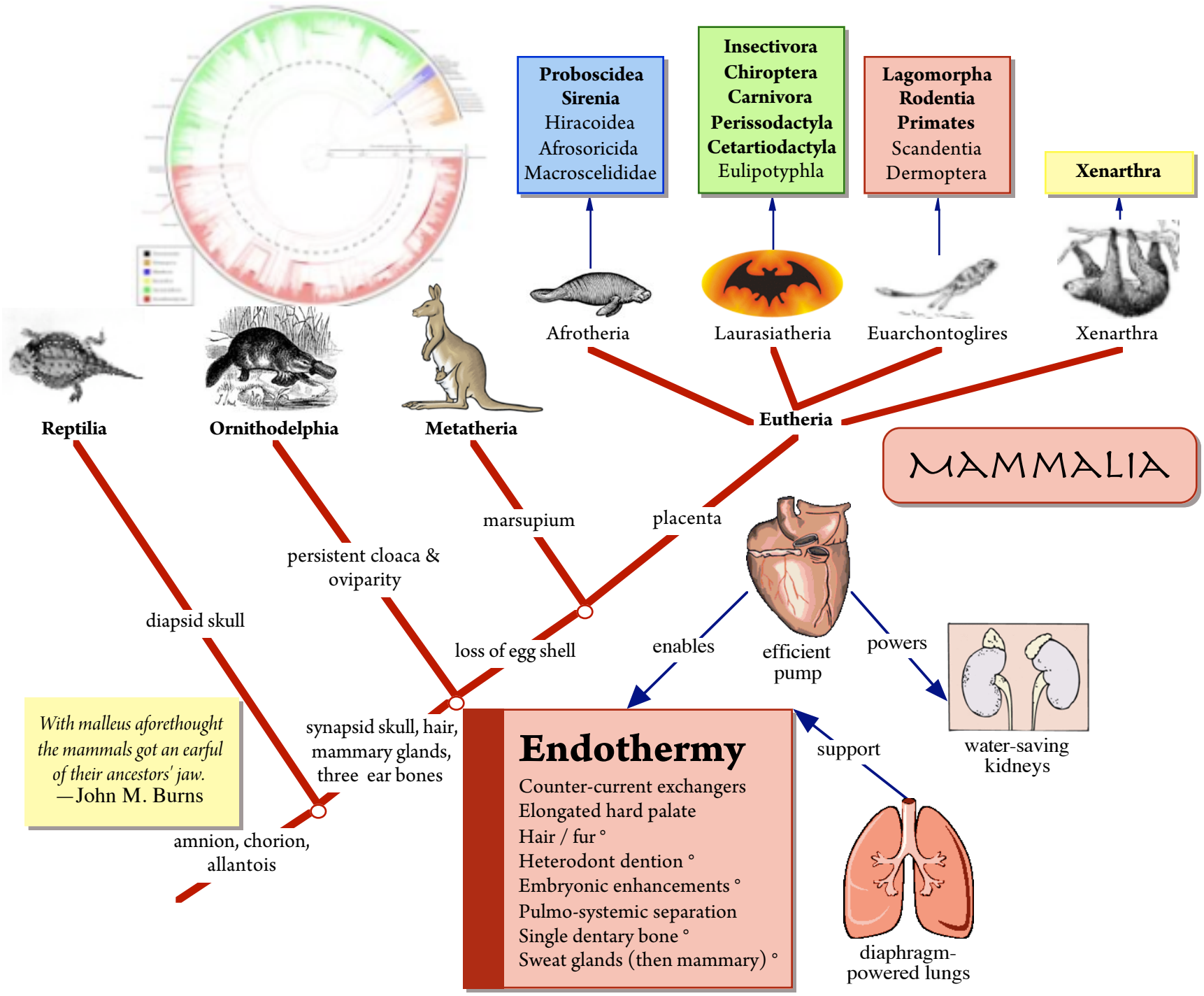
Proboscidea
Sirenia
Hiracoidea
Afrosoricida
Macroscelididae
Insectivora
Chiroptera
Carnivora
Perissodactyla
Cetartiodactyla
Eulipotyphla
Lagomorpha
Rodentia
Primates
Scandentia
Dermoptera
Xenarthra
Afrotheria
Laurasiatheria
Euarchontoglires
Xenarthra
Reptilia
Ornithodelphia
Metatheria
Eutheria
MAMMALIA
marsupium
placenta
persistent cloaca &
oviparity
diapsid skull
loss of egg shell
enables
efficient
pump
powers
water-saving
kidneys
synapsid skull, hair,
mammary glands,
three ear bones
support
amnion, chorion,
allantois
diaphragm-
powered lungs
Endothermy
Counter-current exchangers
Elongated hard palate
Hair / fur °
Heterodont dention °
Embryonic enhancements °
Pulmo-systemic separation
Single dentary bone °
Sweat glands (then mammary) °
With malleus aforethought
the mammals got an earful
of their ancestors' jaw.
—John M. Burns