The Tree of Life

dolphin
lion
canis
short-tailed bat
elephant
horse
lemming
baboon
chimpanzee
lizards
odd
ring-tailed lemur
homo sapiens
Charles Darwin
kob
shrews
15 m yrs
even
meccasin
tuatara
primates
50 m yrs
kangaroo
crocodiles
platypus
opossum
iguanodon
therapsid
tyrannosaurus
hawk
stegosaurus
frog
62 m yrs
porcupine fish
kiwi
brontosaurus
hogfish
diapsids
synapsida
150 m yrs
kahawai
moa
labyrinthodonts
270 m yrs
archaeopteryx
therapods
penguin
fantail
turtle
ichthyostega
380 m yrs
sea-urchin
star-fish
morepork
pterodactyl
coelanth
eumorphocysts
ray
sharks
scarab
yanessa
crab
lichens
claviceps
psiloctybe
amanita
yeasts
jelly fungi
astrapsis
gnathian fish
prawn
450 m yrs
loculo-
ascomycetae
labulobenio
-mycetae
weta
huhu
dragon-fly
arthropods
euascomycetae
echinoderms
400 m yrs
trilobites
lamprey
amphioxus
deuteromycota
rusts
katipo
centipede
eurypterid
entomoph-
thorales
ascomycota
zoopagales
zygomycota
basidiomycota
peripatus
onychophora
opabinia
hemichordata
marella
ctenocystoid
aysheaia
sanctacaris
graptolites
tardigrada
pikaia
crinoid
rhizopus
mucorales
fungi
animals
mosses
bryophyta
450 m yrs
plants
lepidodendrons
herbaceous
lycopods
schizoneura
nothofagus
cordaites
200 m yrs
angiosperms
250 m yrs
glossopteris
tree ferns
seed ferns
300 m yrs
gangamopteris
sphenopteris
merianopteris
380 m yrs
Psilotum
horsetails
sphenophyta
nepenthes
bannisteriopsis
psychotria
lophophora
rewarewa
cannabis
opuntia
olive
primrose
cypress
cycads
ginkgoes
pines
conifers
orchid
emmer
pineapple
deciduous trees
palms
dicotyledons
120 m yrs
gymnosperms
gnetophyta
ferns
monocotyledons
dsDNA
papovavirus
adenovirus
dsRNA
reavirus
ssRNA
+ssRNA
ssDNA
picornavirus
parvavirus
retrovirus
viruses
-ssRNA
rhabdovirus
dsDNA
orthomyxovirus
herpesvirus
ssRNA
bacteriophage
tobacco mosaic virus
30s rRNA
procaryotes
3870 m yrs
eubacteria
thermotogales
to centrioles?
green non-sulphur
bacteria
spirochaetes
actinobacteria
gram-negative
nitrogen-fixing
aerobes
chemoautotrophs
pseudomonads
thiopneutes
omnibacteria
cyanobacteria
to mitochondria
3500 m yrs
gram-positive
aphragmabacteria
mycoplasma
fermenting
bacteria
halobacteria
clostridia
lactic acid
bacteria
aeroendospora
anaerobic
phototrophs
prochlorophytes
to chloroplasts
micrococci
algal stromatolites
actinobacteria
archibacteria
methanogens
30s rRNA
extreme
thermoacidophiles
giardia
cnidosporida
microsporidians
kinetoplastids
euglenophyta
entamoebas
caryoblastea
eucaryotes
mitochondria
haploid-diploid sex
hypochrids
cryptophyta
haptophyta
chritidiomycota
chlorophyta
green algae
prasinophyta
chrysophyta
xanthophytes
yellow algae
baccilariophyta
diatoms
acanthoboebas
brown algae
phaeophyta
slime nets
labyrinthulomycota
actinopoda
radiolaria
dinoflagellata
foramenifera
myxomycota
ciliates
ciliophora
oomycota
sporozoans
apicomplexa
red algae
rhodophyta
acrasiomycota
cellular slime moulds
1800 m yrs
acritarch
550 m yrs
chlamia
spriggina
choanoflagellates
dinomischus
550 m yrs
deuterostomes
cambrian radiation
molluscs
squid
octopus
snail
bivalve
slug
ammonites
nautiloid
amiskwia
nectocaris
wiwaxia
odontogriphus
priapulida
echiura
sipuncula
pentastoma
latouchella
nemertina
proterostomes
bryozoa
ectoprocta
lamp shells
brachyopods
phoronida
annelida
nematoda
chaetognatha
pogonophora
entoprocta
pseudocoelomate
rotifera
nematomorpha
acanthocephala
loricifera
gastrotricha
knorkyncha
acoelomates
mesozoa
gnathostomulida
radiata
ctenophora
sponges
placozoa
coelenterates
coral
jellyfish
sea anenomies
platythelmines
yarrovia
ascomycetes
basidiomycetes
deuteromycetes
zygomycetes
chytridiomycetes