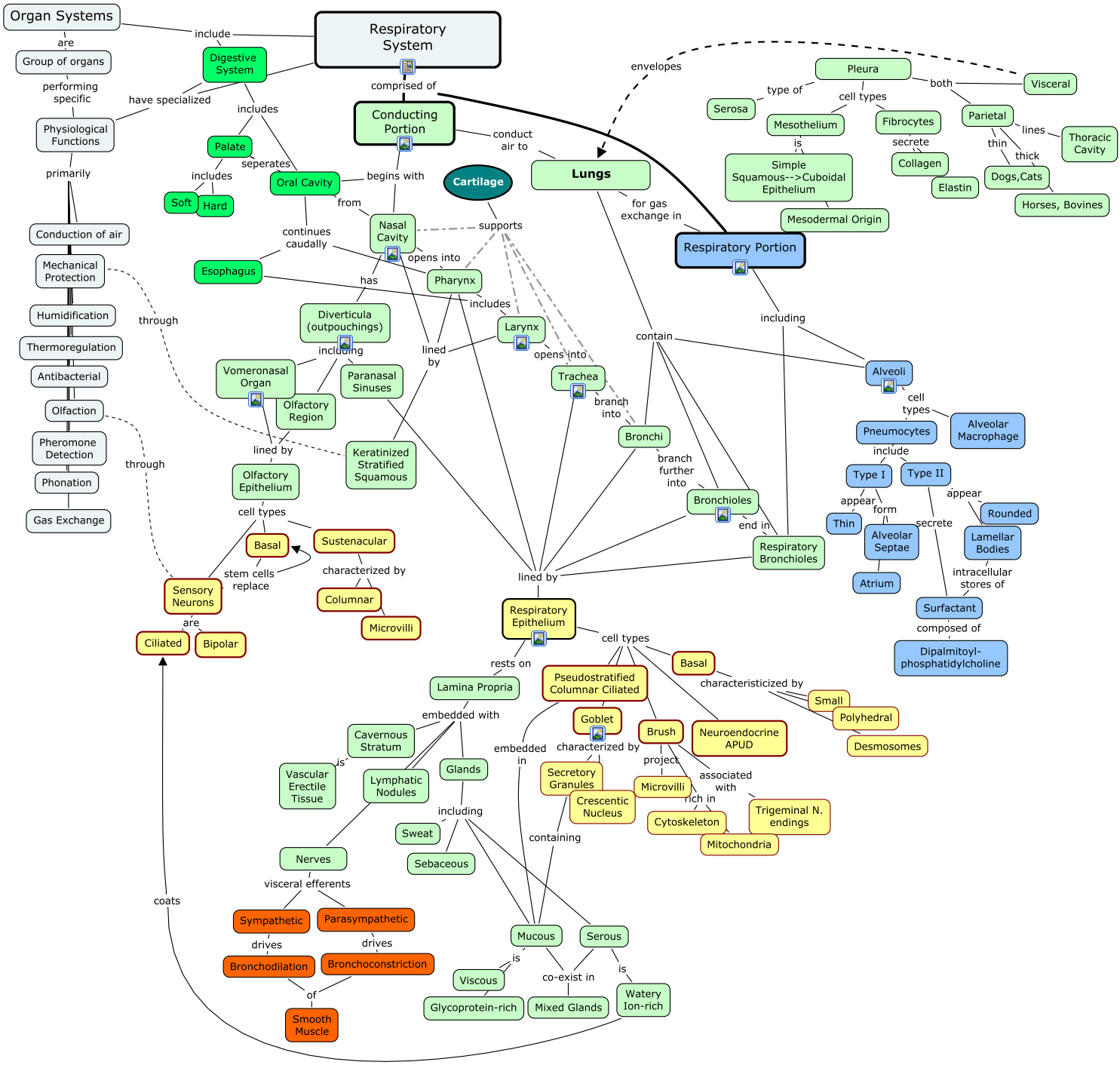
Organ Systems
are
Group of organs
performing specific
Physiological Functions
primarily
Conduction of air
Mechanical Protection
Humidification
Thermoregulation
Antibacterial
Olfaction
Pheromone Detection
Phonation
Gas Exchange
include
Respiratory System
Digestive System
have specialized
includes
Palate
includes
Soft
Hard
seperates
Oral Cavity
comprised of
Conducting Portion
begins with
from
Nasal Cavity
continues caudally
Esophagus
opens into
Pharynx
has
Diverticula (outpouchings)
includes
Larynx
opens into
Trachea
branch into
Bronchi
branch further into
Bronchioles
end in
Respiratory Bronchioles
conduct air to
Lungs
for gas exchange in
Respiratory Portion
Cartilage
supports
envelopes
Pleura
type of
Serosa
cell types
Mesothelium
is
Simple Squamous-->Cuboidal Epithelium
Mesodermal Origin
Fibrocytes
secrete
Collagen
Elastin
both
Visceral
Parietal
lines
Thoracic Cavity
thin
thick
Dogs,Cats
Horses, Bovines
including
Alveoli
cell types
Alveolar Macrophage
Pneumocytes
include
Type I
appear
Thin
form
Alveolar Septae
Atrium
Type II
secrete
appear
Rounded
Lamellar Bodies
intracellular stores of
Surfactant
composed of
Dipalmitoyl-phosphatidylcholine
contain
lined by
Vomeronasal Organ
including
Olfactory Region
Paranasal Sinuses
lined by
Olfactory Epithelium
cell types
Basal
Sustenacular
stem cells replace
characterized by
Columnar
Microvilli
Sensory Neurons
are
Ciliated
Bipolar
through
through
Keratinized Stratified Squamous
lined by
Respiratory Epithelium
cell types
rests on
Lamina Propria
embedded with
Cavernous Stratum
is
Vascular Erectile Tissue
Lymphatic Nodules
Glands
including
Sweat
Sebaceous
Nerves
visceral efferents
Sympathetic
drives
Bronchodilation
Parasympathetic
drives
Bronchoconstriction
of
Smooth Muscle
coats
Pseudostratified Columnar Ciliated
embedded in
Goblet
characterized by
Secretory Granules
Crescentic Nucleus
containing
Mucous
Serous
is
Viscous
Glycoprotein-rich
co-exist in
Mixed Glands
is
Watery Ion-rich
Basal
characteristicized by
Small
Polyhedral
Desmosomes
Brush
project
Microvilli
associated with
rich in
Cytoskeleton
Mitochondria
Trigeminal N. endings
Neuroendocrine APUD