

SCIENTIFIC ENGLISH II

Anglais scientifique II

For students in master II

Biotechnology and plants valorisation

Applied biochemistry

Applied microbiology

Parasitology

2020-2021

Useful Prefixes and Suffixes in Biological sciences

Scientific words

scientific vocabulary is a mixture of little **(petit)** words that are linked together to have different meanings.

If you learn the meanings of the little words,

you'll find scientific vocabulary **much easier** to understand.

- Prefixe : INTRA-
= within
- (intracellular parasite)
- Intravenous : within a vein :
employed in, or administered by injection into a vein: *an intravenous solution.*



- Prefixe : **PERI-**

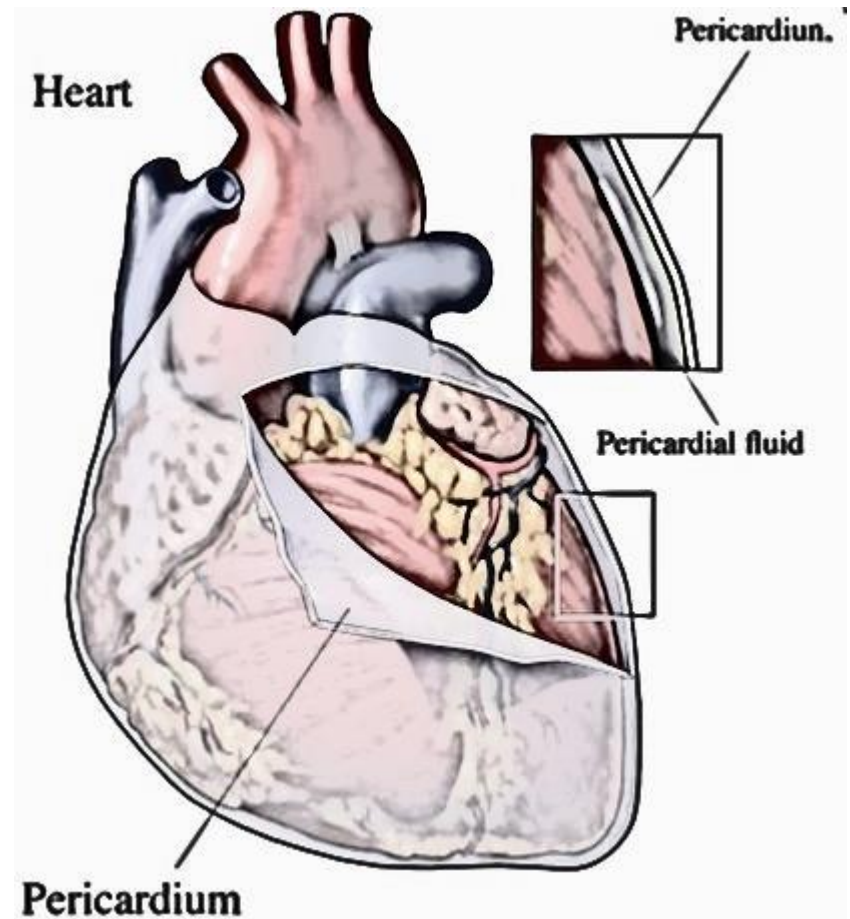
1. enclosing, encircling, or around :

pericardium, pericarp, perigon

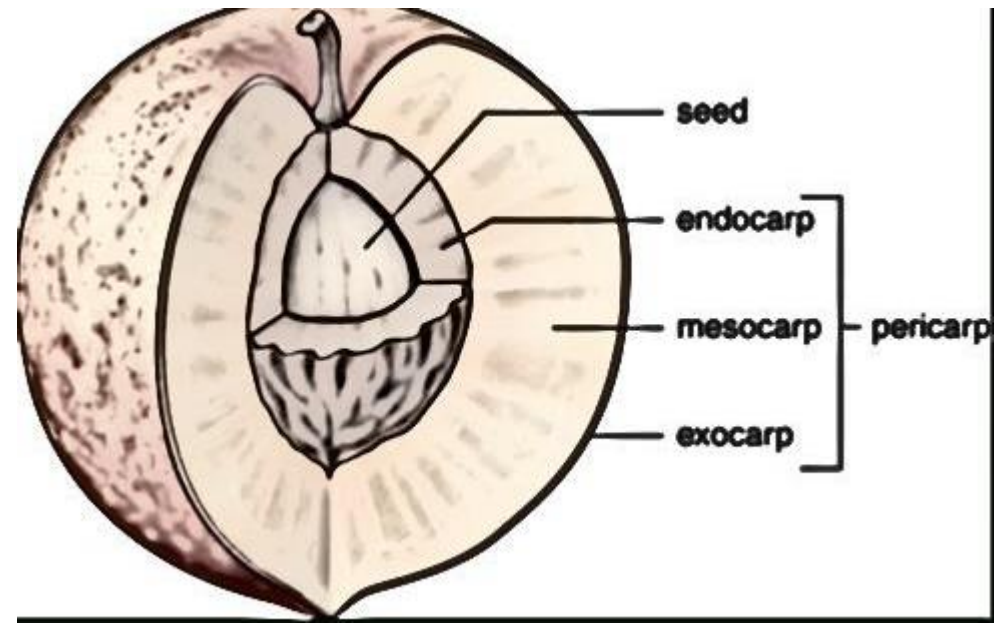
Around (**periplasmic space**)

- 2.near or adjacent : *perihelion*

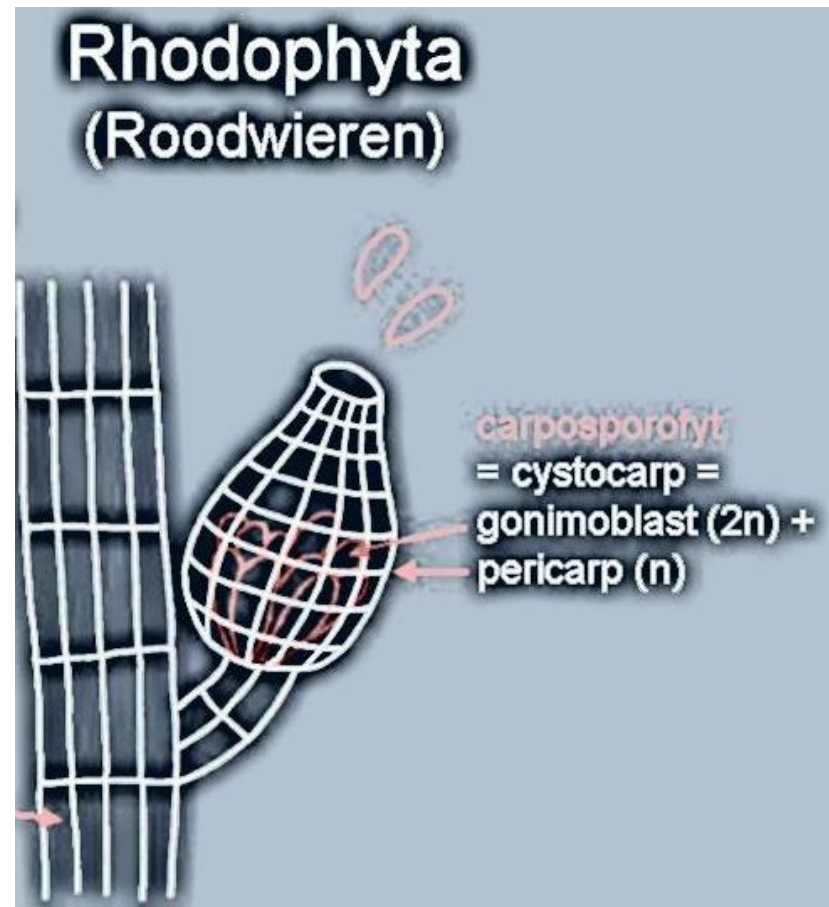
- Exp : **Pericardium** :
- In *Anatomy* :
the membranous sac enclosing the heart.



- ***Pericarp:***
- ***Botany***
- **1. the walls of a fruit, sometimes consisting of three layers, the epicarp, mesocarp, and endocarp.**



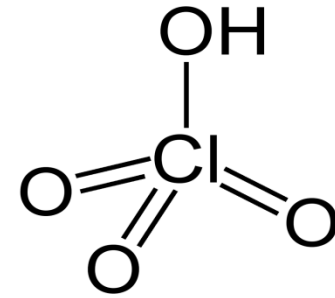
- *Pericarp*:
- 2. membranous envelope around the cystocarp of red algae.



- **Prefix** : **PER-**
- **1-throughout**: *perennial*
- **Exp** : *perennial plant*
- **Having a life cycle lasting more than two years**
- **Synonyms** :
- **perdurable; constant, incessant, continual.
imperishable, undying, eternal, immortal.**

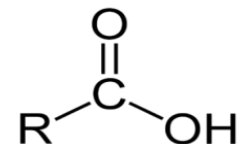
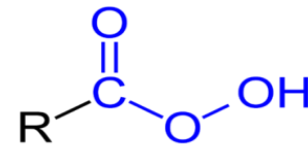
- **2. Thoroughly; completely; intensely:**
- *Exp : **perfuse**.*
- **3. in *Surgery (the art, practice, or work of treating diseases, injuries, or deformities by manual or operative procedures.)***
- **Verb, **perfused**, **perfusing**:**
to diffuse (a liquid, color, etc.) through or over something.
- **to pass (fluid) through blood vessels or the lymphatic system**

- in *Chemistry*.
- Containing an element in its highest oxidation state: *perchloric acid*.



- Containing a large or the largest possible proportion of an element: *peroxide*.

- Containing the peroxy group: *peracid*.



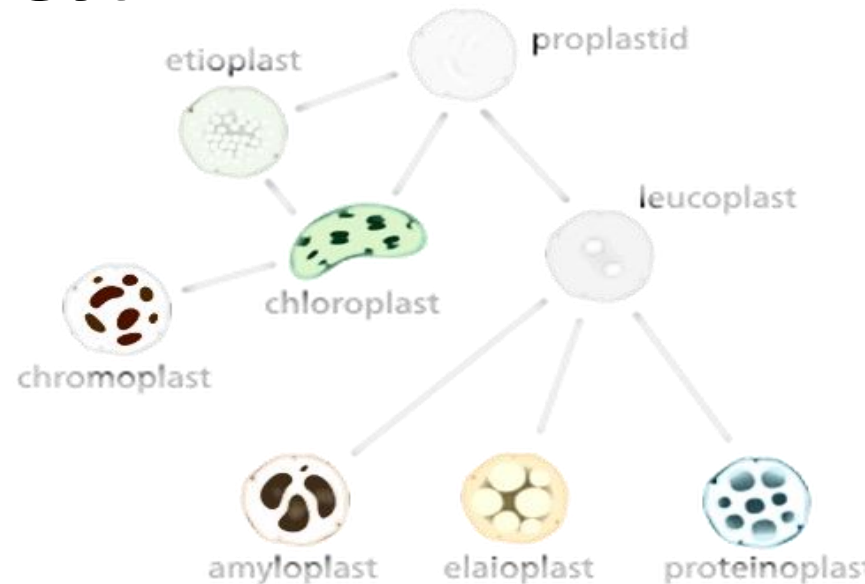
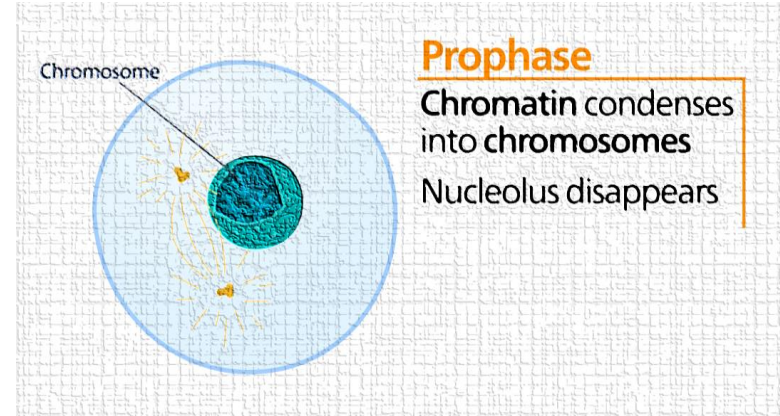
- Prefixe : **PRE-**

applied freely as a prefix, with the meanings “**prior to,**” “**in advance of,**” “**early,**” “**before,**” “**in front of,**”

- before in time, rank, order, position, etc.
- Exp : *preschool; prewar; prepayed*).

- Prefixe : **PRO-**
= **Before** in time or position;
anterior; forward:

- **Proplastid** (in botany)
- *Prophase* (in mitosis),
- *Procephalic* (in embryology),



- **Prefix (a-)**

= without, negative, not

- **Examples: asexual (a- sexual) -
without sex**

- Prefix **(ab-)**

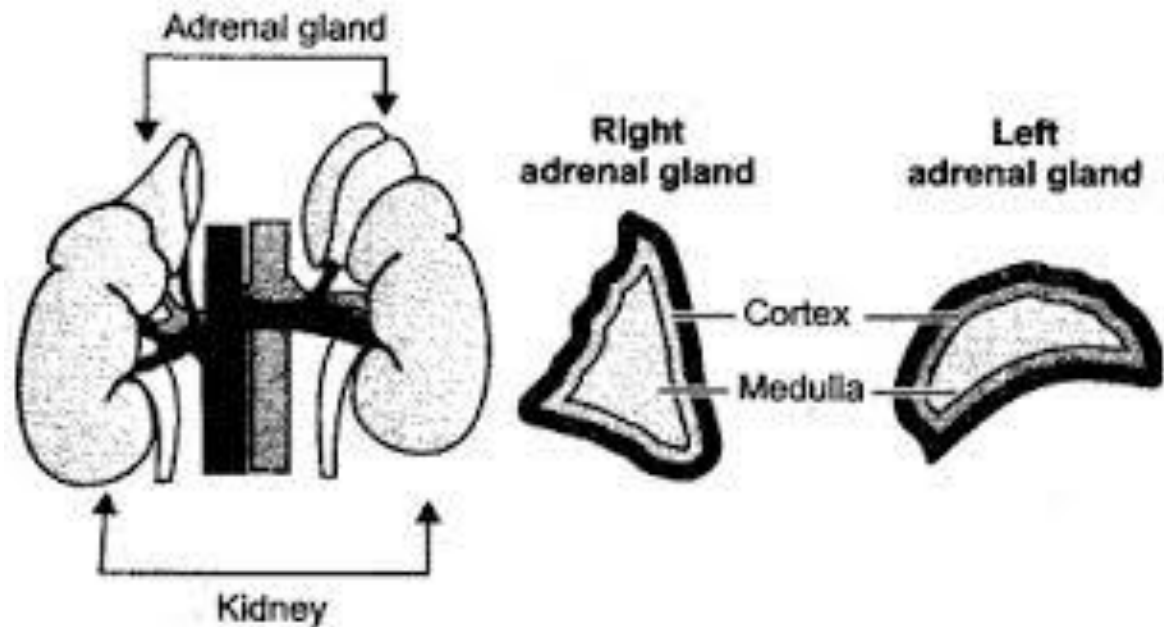
= away from

- Examples: **abnormal** (ab - normal) :
departing from normality, not
typical or usual or regular

- Prefix **(ad-)**

= toward, near

- Examples: **adrenal** (ad - renal) :
toward **(vers)** the kidneys



- **Acantho-**

= A spinous process; spiny, thorny.

- [Gr. *akantha*, a thorn (épine), the backbone (épine dorsale), the spine / *akē*, a point, + *anthos*, a flower]



Genista acanthoclada



Launaea acanthoclada



Acanthocephala terminalis