

# Plasmodium – Life cycle

## *(Part-1)*



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# Plasmodium –Lifecycle



## **Introduction**

Plasmodium is a parasitic protozoa, which causes Malaria. Four species of genus plasmodium infecting the human are

- P. falciparum,
- P.vivax
- P.ovale
- P.malariae,

Of the above, P.vivax is the most common type of malarial parasite

# Plasmodium – Lifecycle



## **Classification**

Phylum	- Protozoa
Subphylum	- Sporozoa
Class	- Telospores
Order	- Eucoccida
Genus	- Plasmodium
Species	- vivax

# Plasmodium –Lifecycle



## *Lifecycle*

Plasmodium lifecycle involves two hosts-

1. Vertebrate host ( Human)
2. Invertebrate host ( female anopheles mosquito)

# Plasmodium – Lifecycle



## *Lifecycle.. Contd..*

Life cycle is completed in following stages

- Pre-erythrocytic cycle
- Exo-erythrocytic cycle
- Erythrocytic cycle
- Sexual cycle

# Plasmodium –Lifecycle

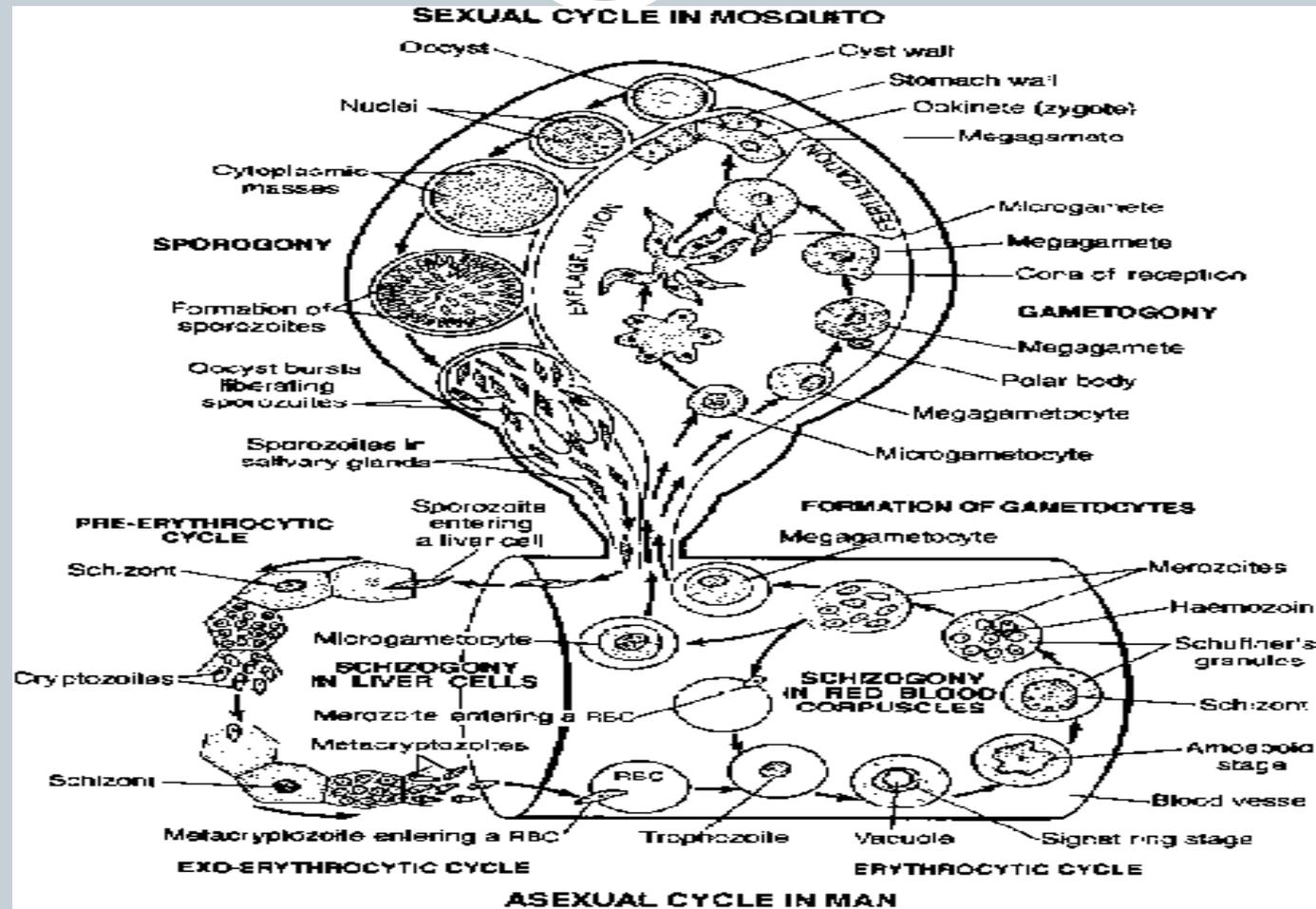


## *Lifecycle.. Contd..*

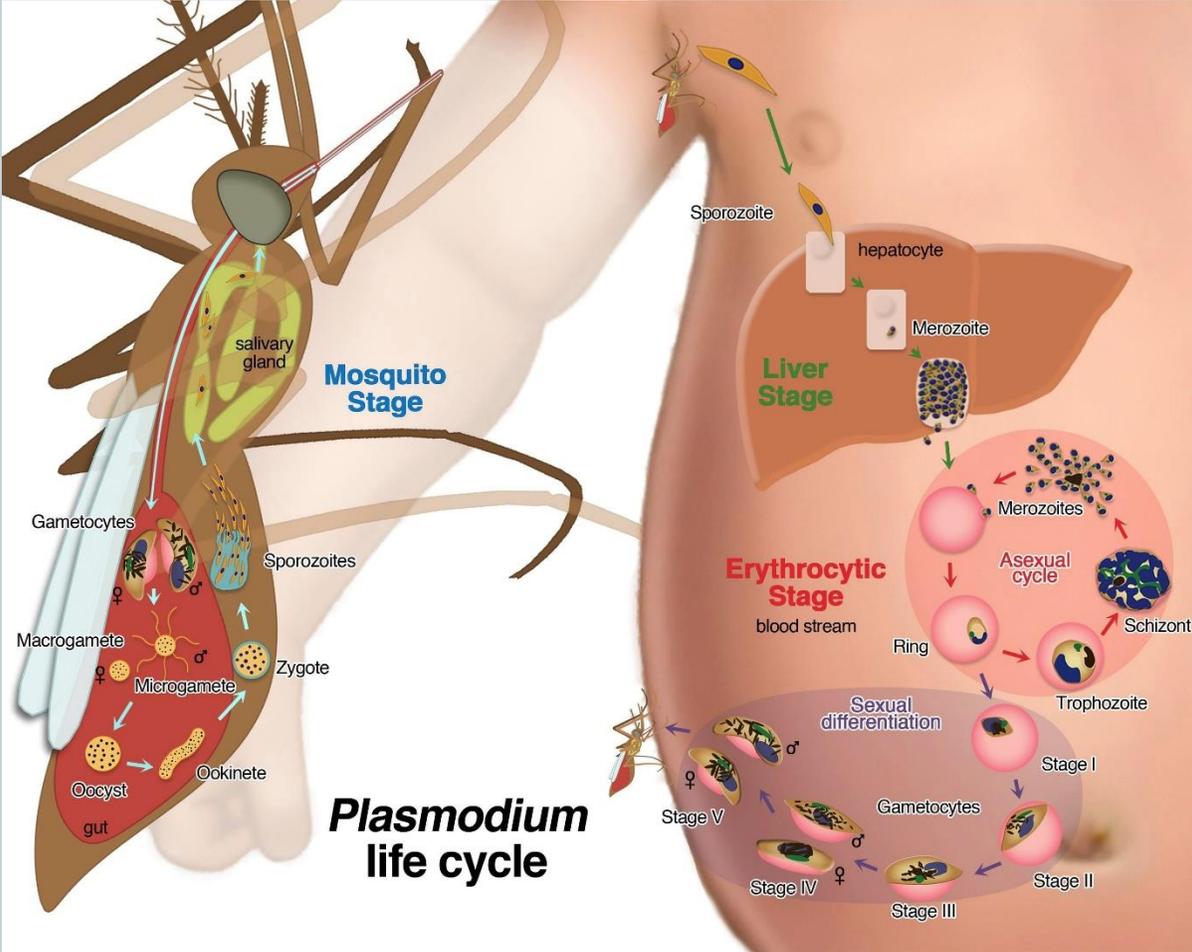
NB :

- Pre-erythrocytic cycle, Exo-erythrocytic cycle and Erythrocytic cycle are asexual phases occurring in human
- The sexual cycle occurs in female anopheles mosquito

# Lifecycle of Plasmodium Vivax



# Plasmodium Life Cycle



*Thank You*

