



Padalsalai's Telegram Groups!

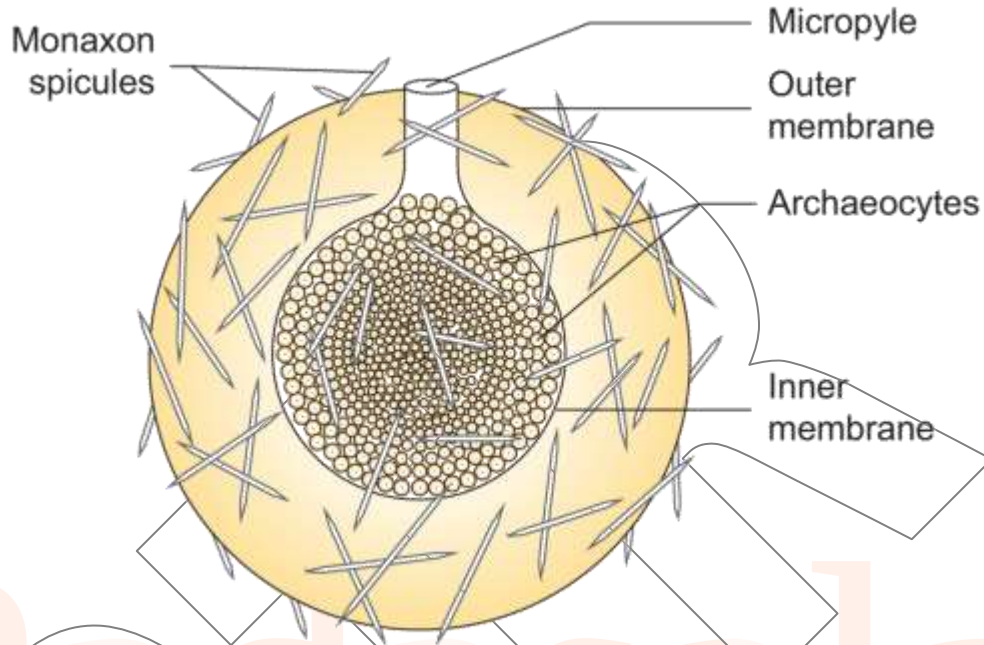
(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padalsalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padalsalai's Channel - Group
<https://t.me/padasalaichannel>
- Lesson Plan - Group
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- 12th Standard - Group
https://t.me/Padalsalai_12th
- 11th Standard - Group
https://t.me/Padalsalai_11th
- 10th Standard - Group
https://t.me/Padalsalai_10th
- 9th Standard - Group
https://t.me/Padalsalai_9th
- 6th to 8th Standard - Group
https://t.me/Padalsalai_6to8
- 1st to 5th Standard - Group
https://t.me/Padalsalai_1to5
- TET - Group
https://t.me/Padalsalai_TET
- PGTRB - Group
https://t.me/Padalsalai_PGTRB
- TNPSC - Group
https://t.me/Padalsalai_TNPSC

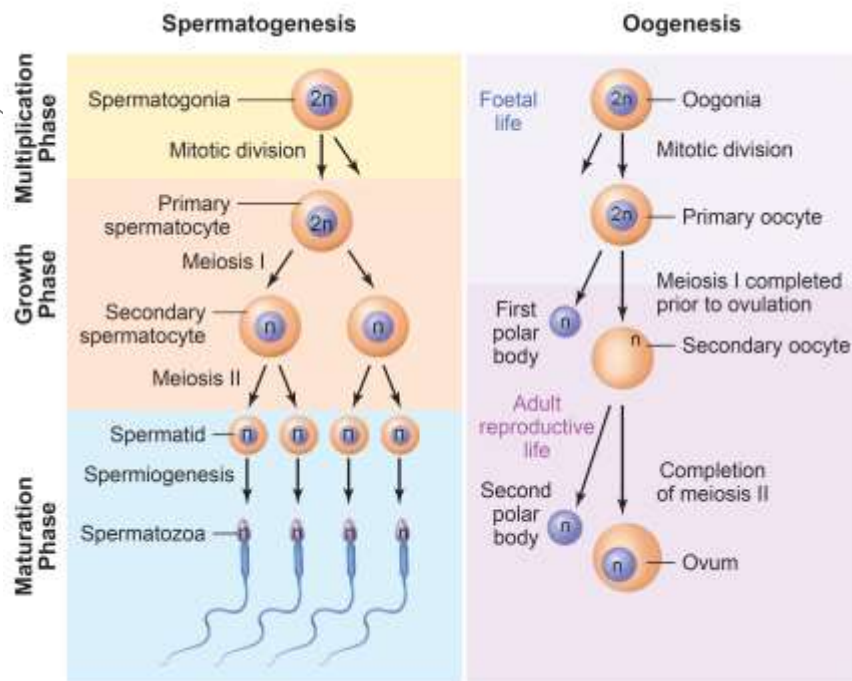
12 - BIOLOGY – ZOOLOGY

DIAGRAM TO PRACTICE

GEMMULE IN SPONGES



GAMETOGENESIS

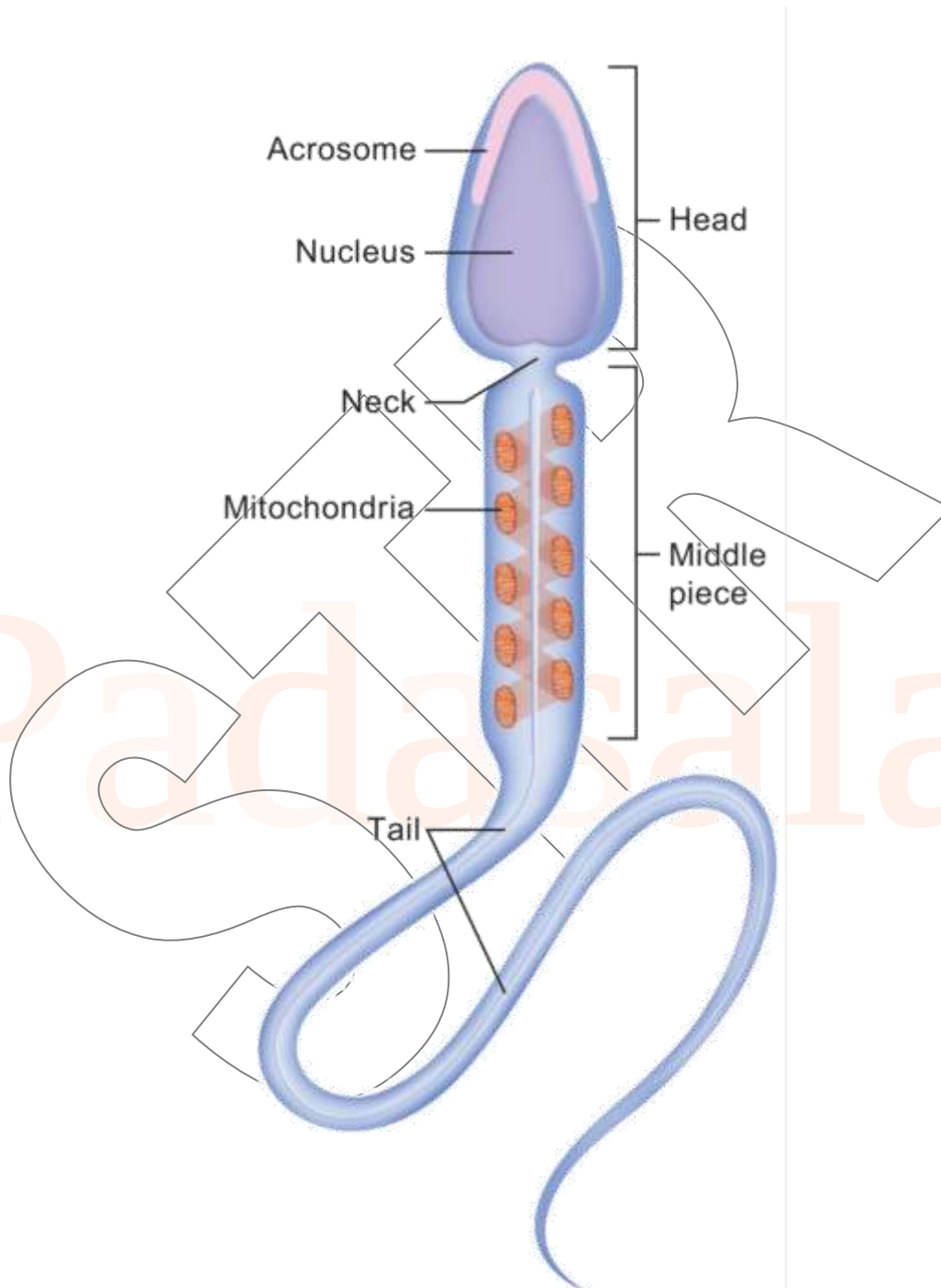


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STRUCTURE OF HUMAN SPERM



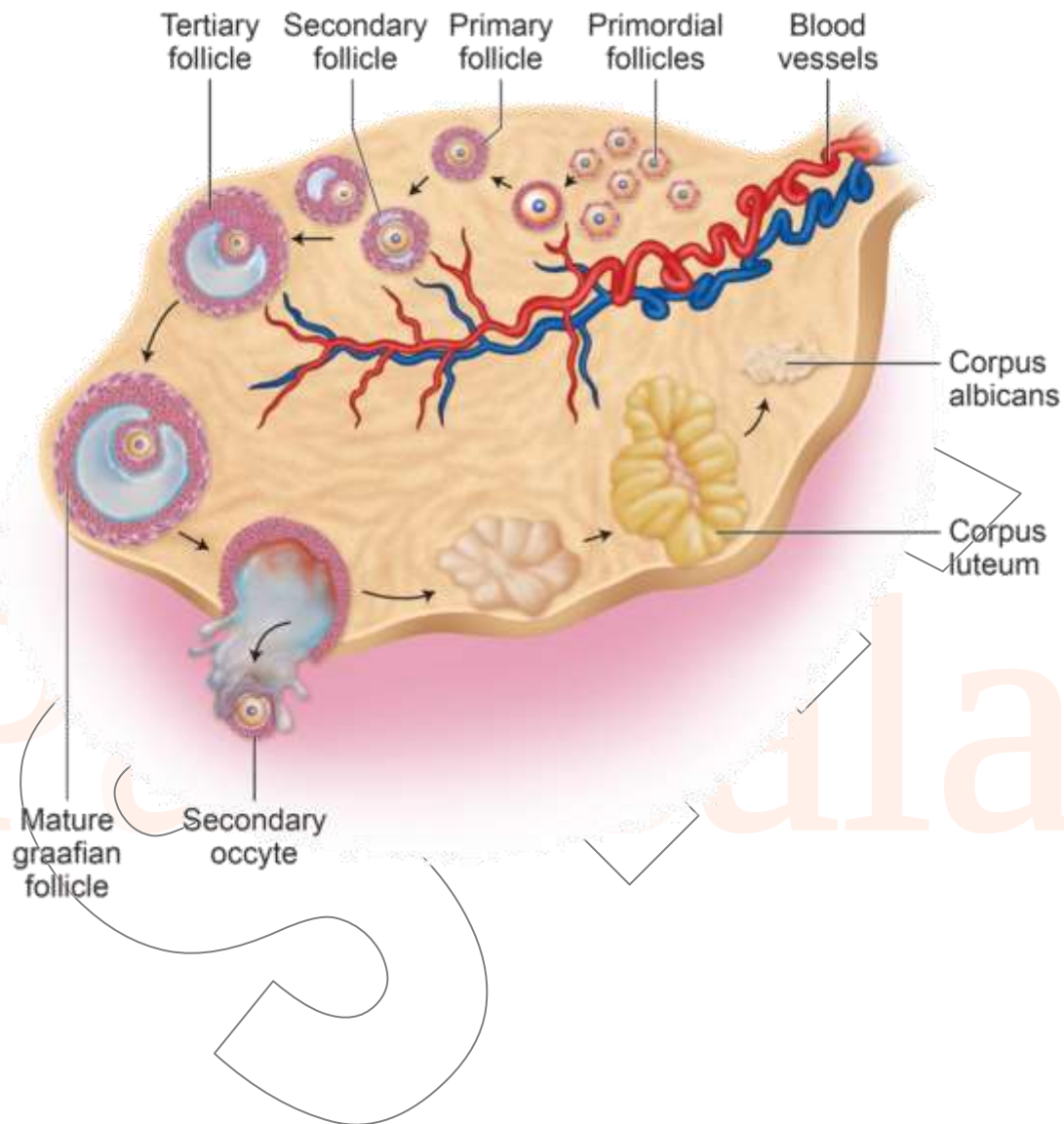
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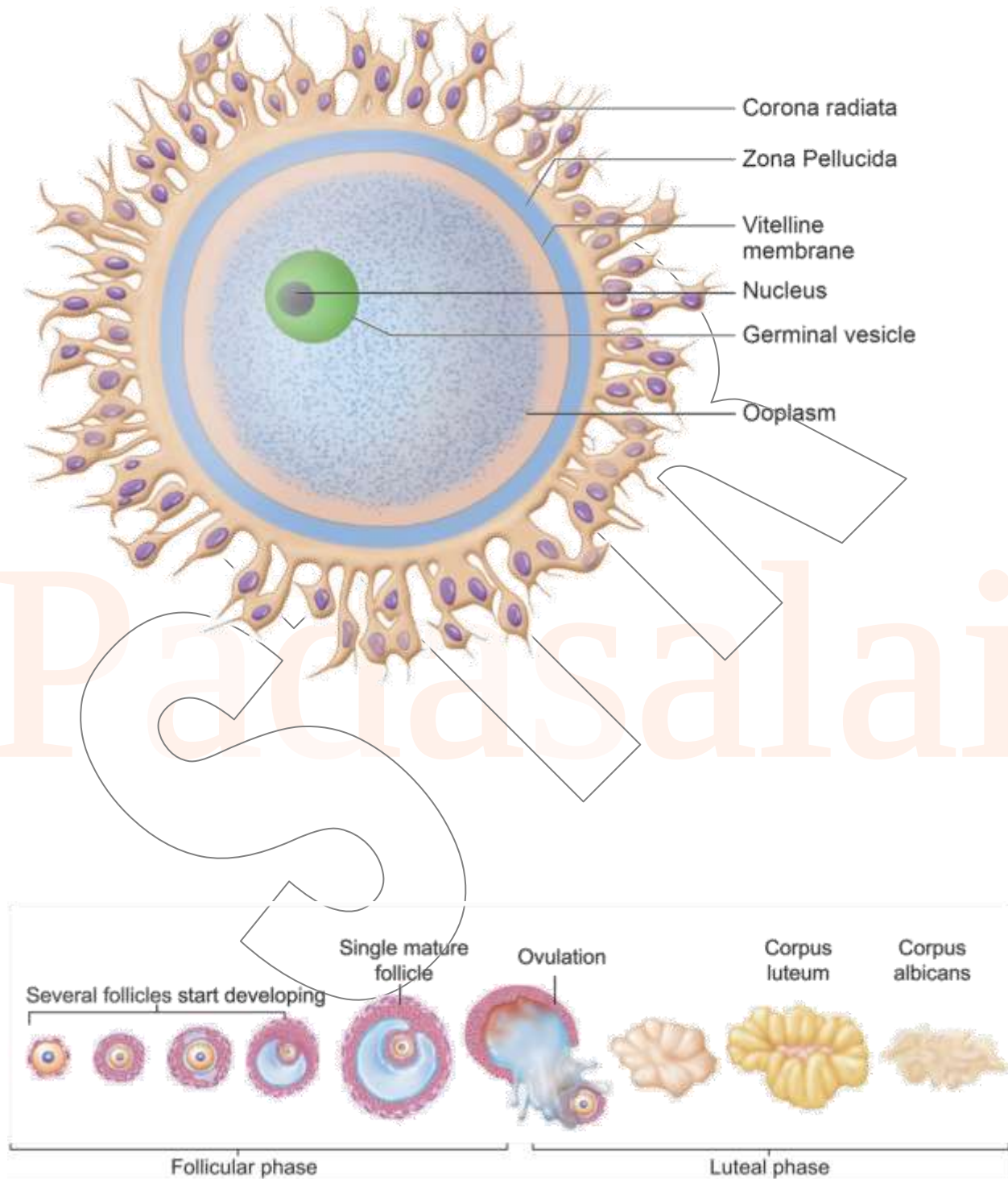
SECTIONAL VIEW OF OVARY

HUMAN OVUM



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HUMAN OVUM

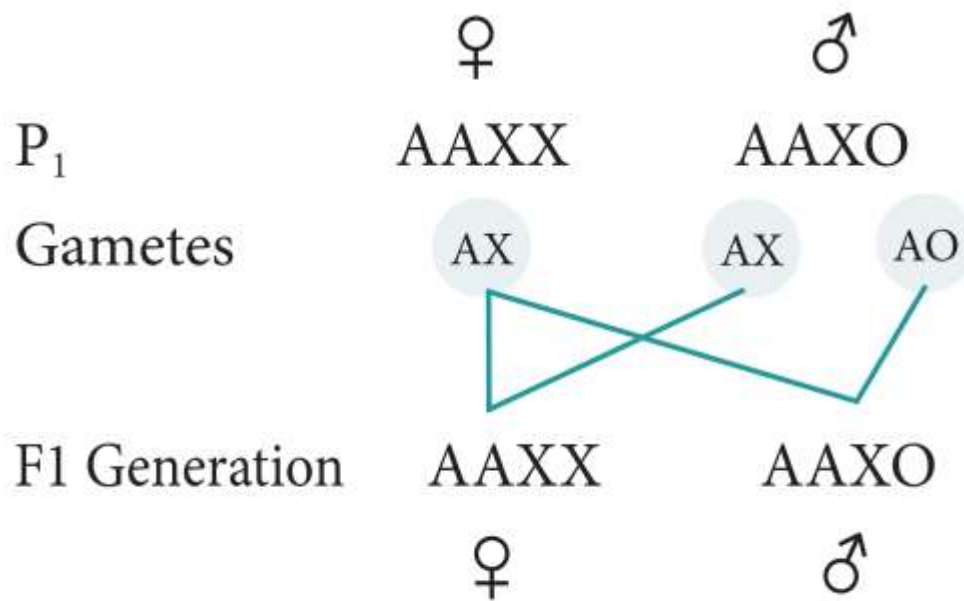


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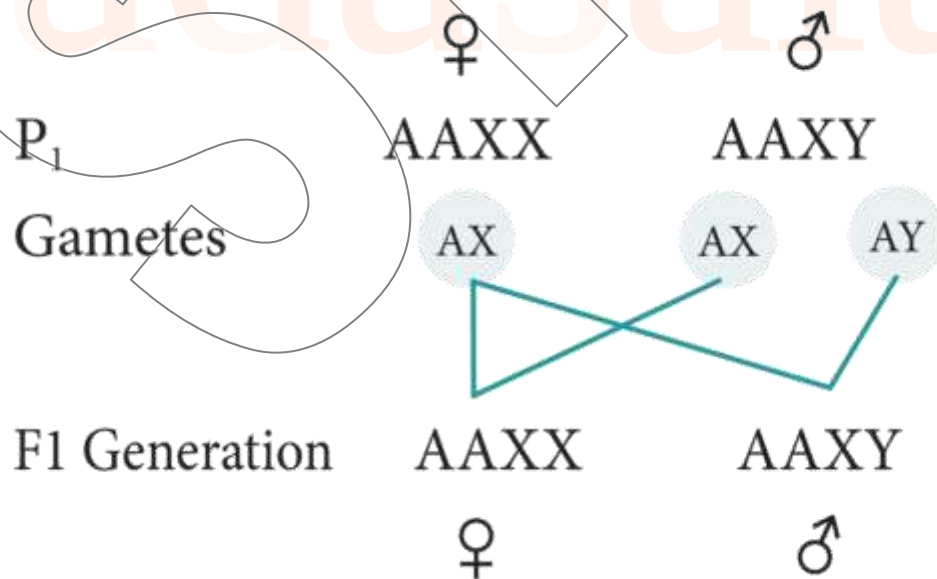
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XX – XO TYPE OF SEX DETERMINATION



XX – XY TYPE OF SEX DETERMINATION

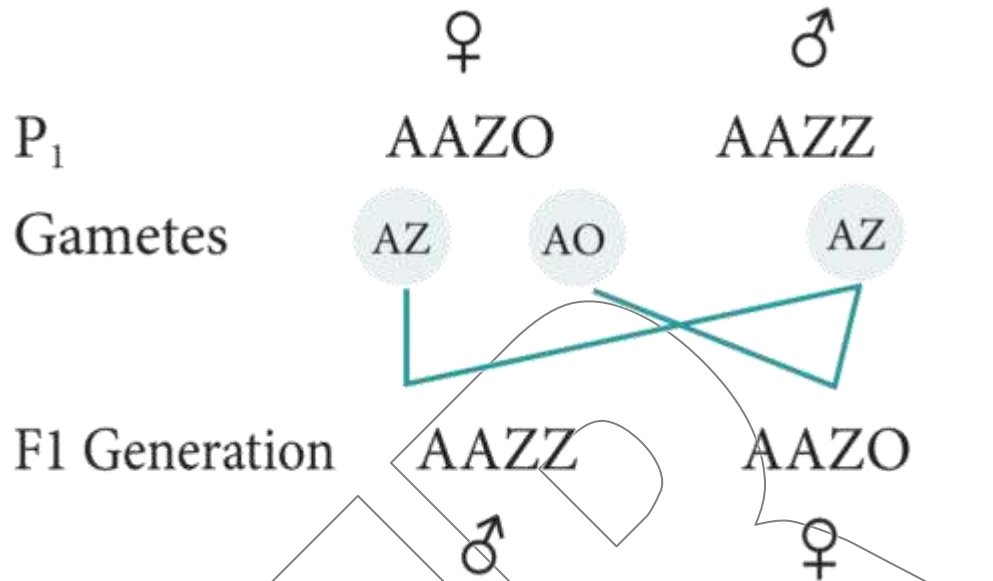


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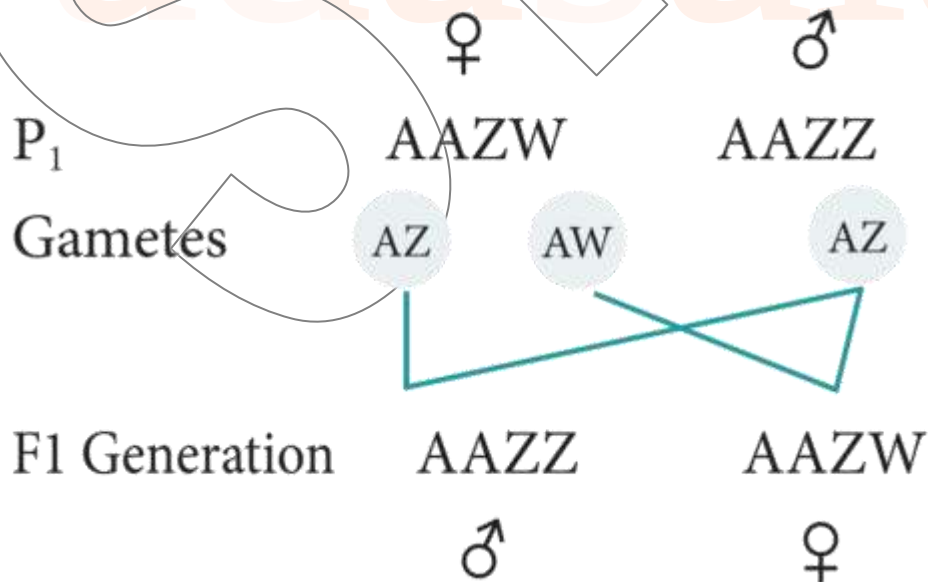
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ZO – ZZ TYPE OF SEX DETERMINATION



ZW – ZZ TYPE OF SEX DETERMINATION

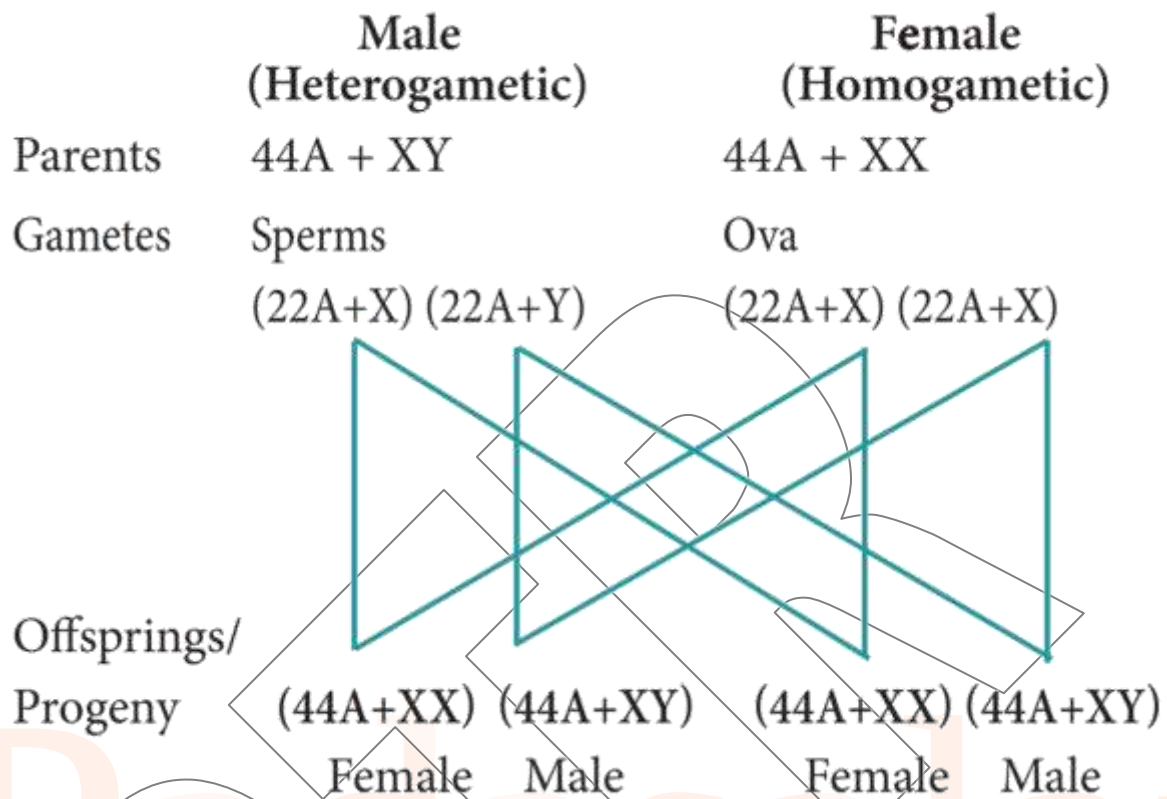


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SEX DETERMINATION IN HUMAN BEING

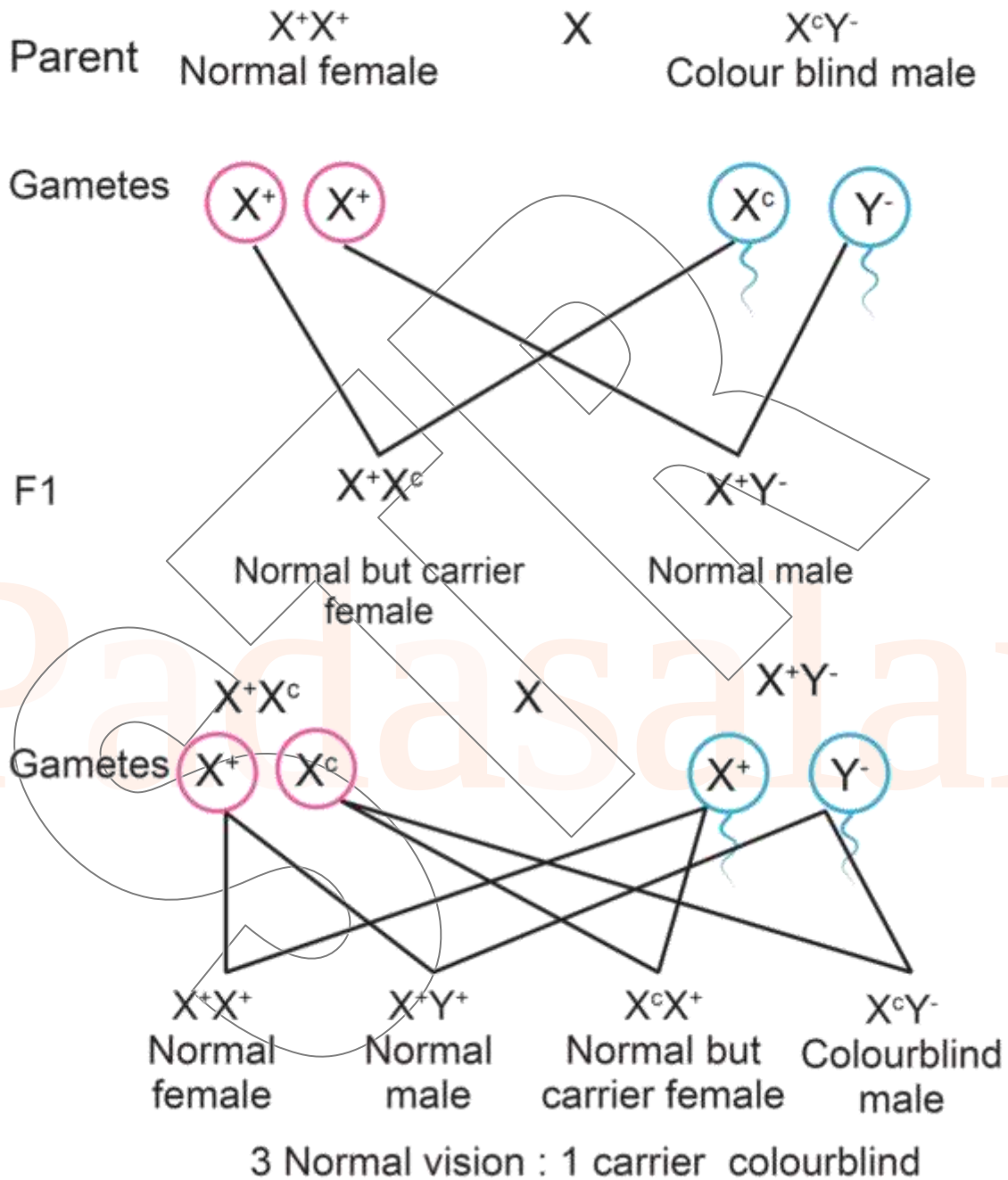


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COLOUR BLIND MAN AND NORMAL WOMAN

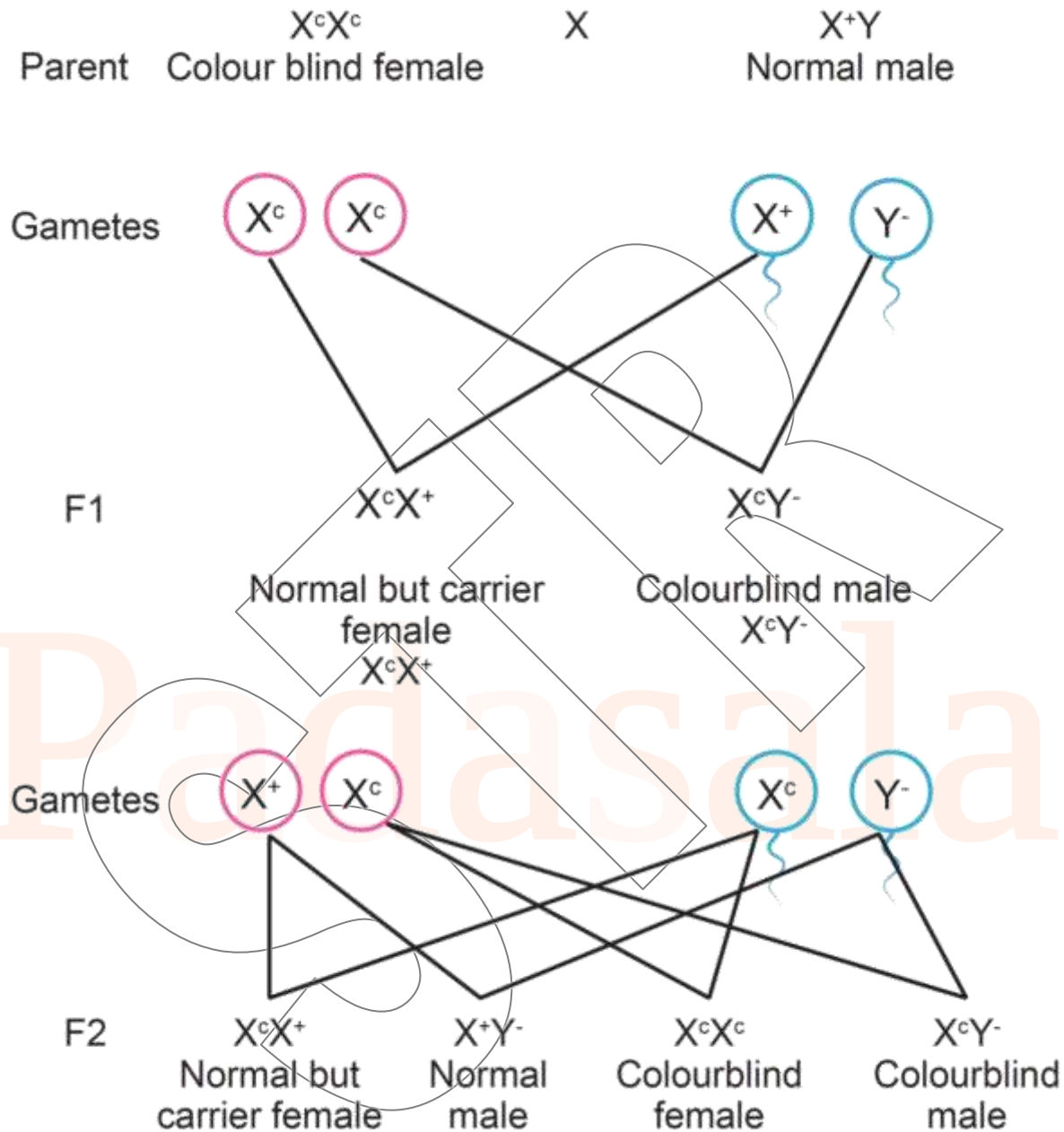


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NORMAL MAN AND COLOUR BLIND WOMAN

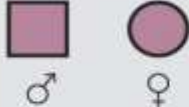
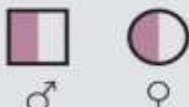
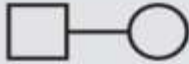
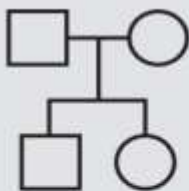
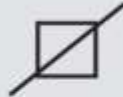
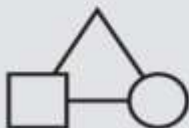
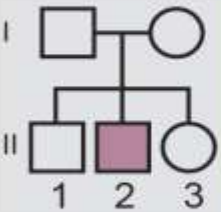


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SYMBOLS USED IN PEDIGREE CHART

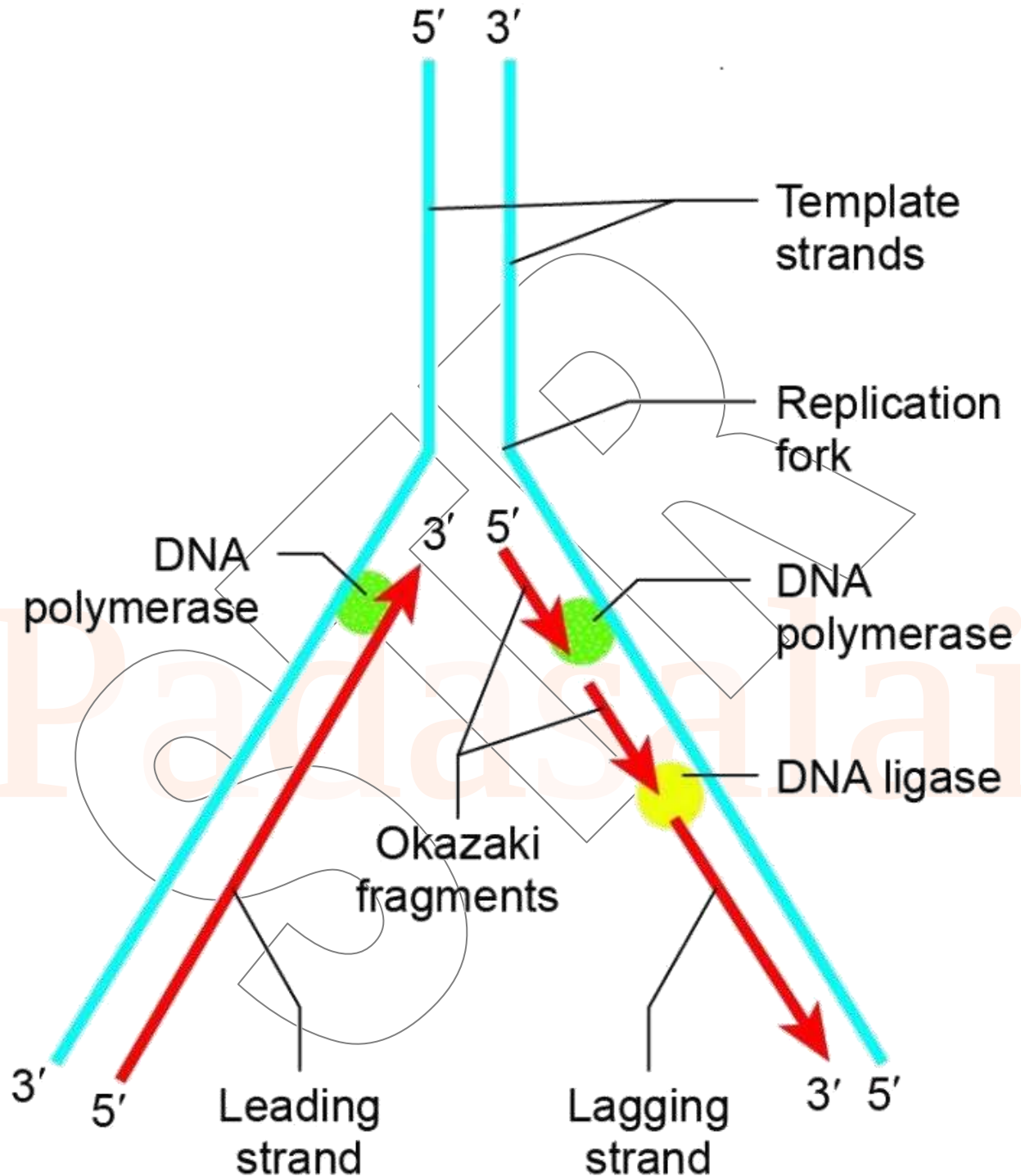
Symbol	Explanation	Symbol	Explanation
	Male		Affected individuals
	Female		Heterozygotes for autosomal recessives
	Mating		Carrier of sex-linked recessives
	Parents and children (1 boy: 1 girl in order of birth)		Death
	Dizygotic twins		Abortion or still birth (sex unspecified)
	Monozygotic twins		Propositus (proband)
	Sex unspecified		Method of identifying persons in a pedigree : here the propositus in child 2 in generation 2 or II 2
 	Number of children of sex indicated		Consanguineous marriage

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MECHANISM OF REPLICATION SHOWING A REPLICATION FORK

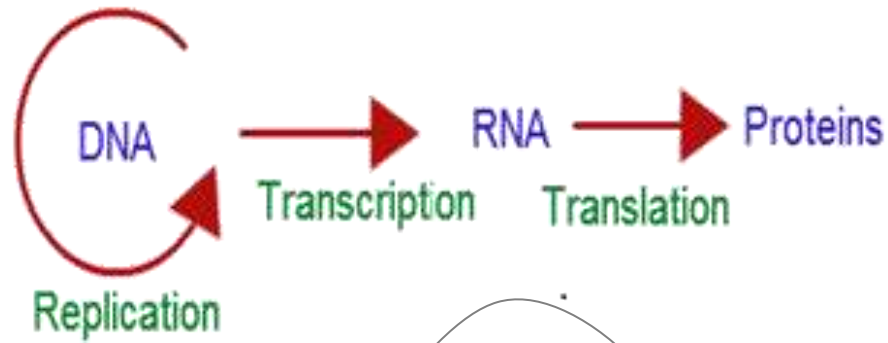


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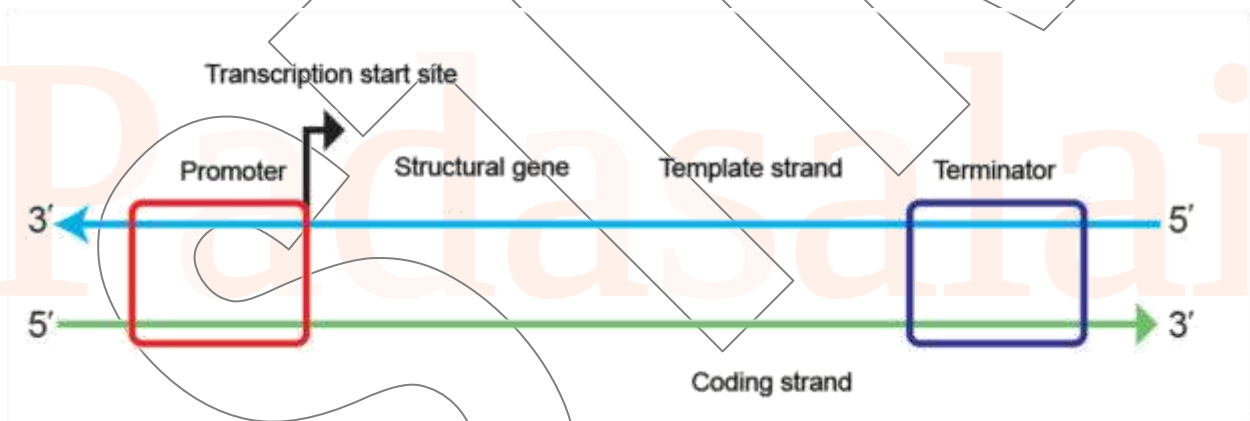
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CENTRAL DOGMA



STRUCTURE OF A TRANSCRIPTION UNIT

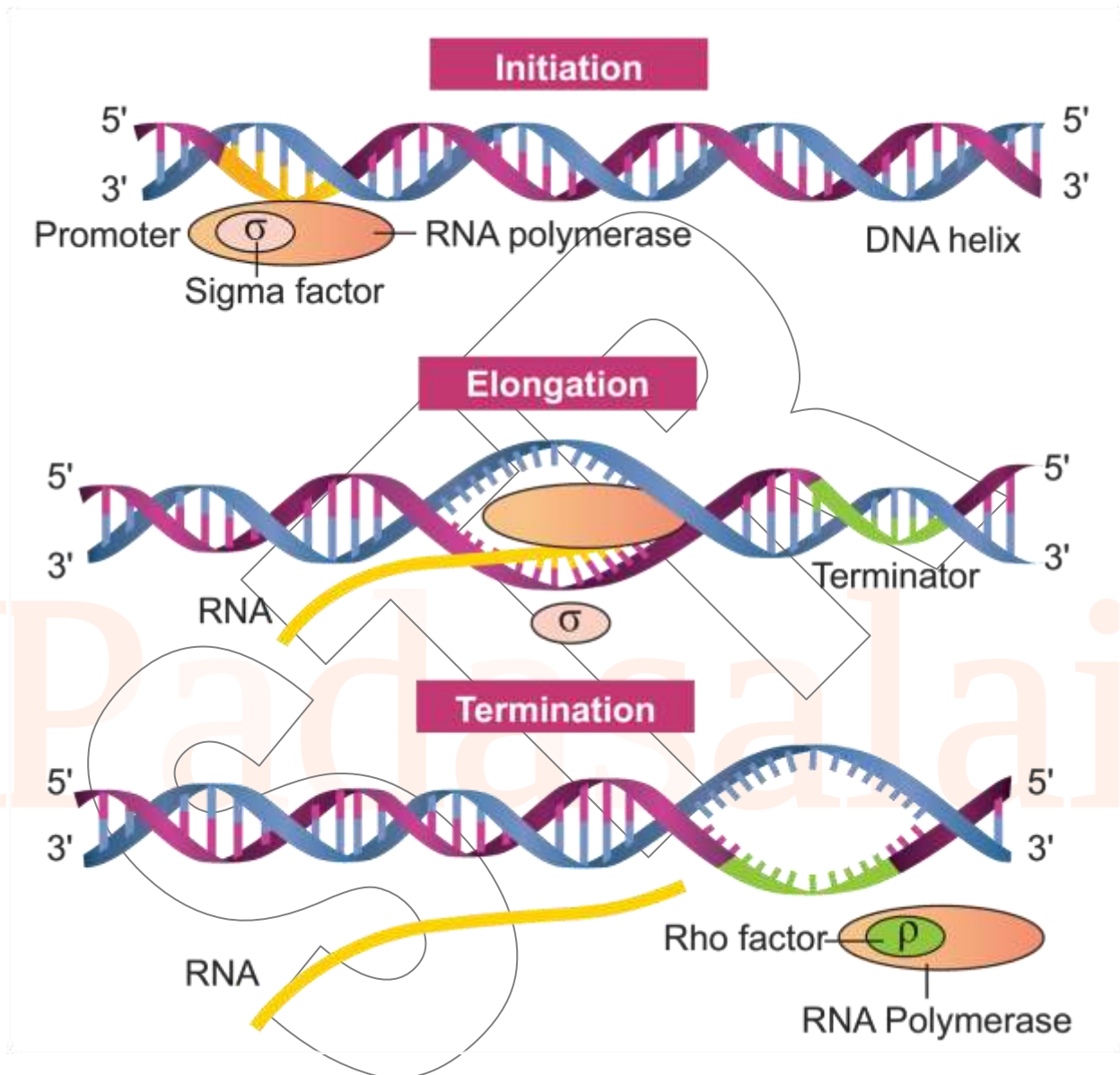


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PROCESS OF TRANSCRIPTION IN PROKARYOTES

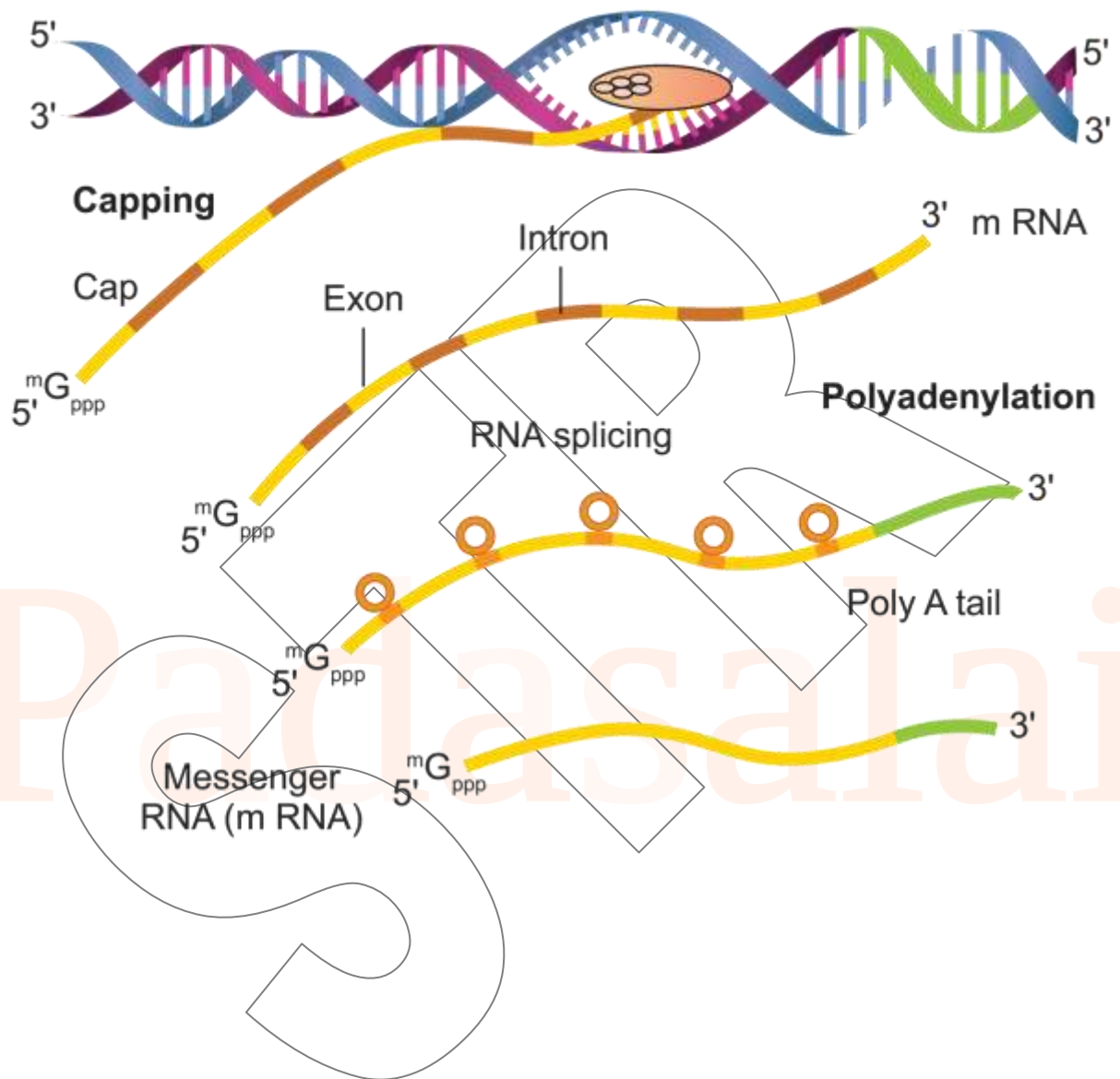


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PROCESS OF TRANSCRIPTION IN EUKARYOTES

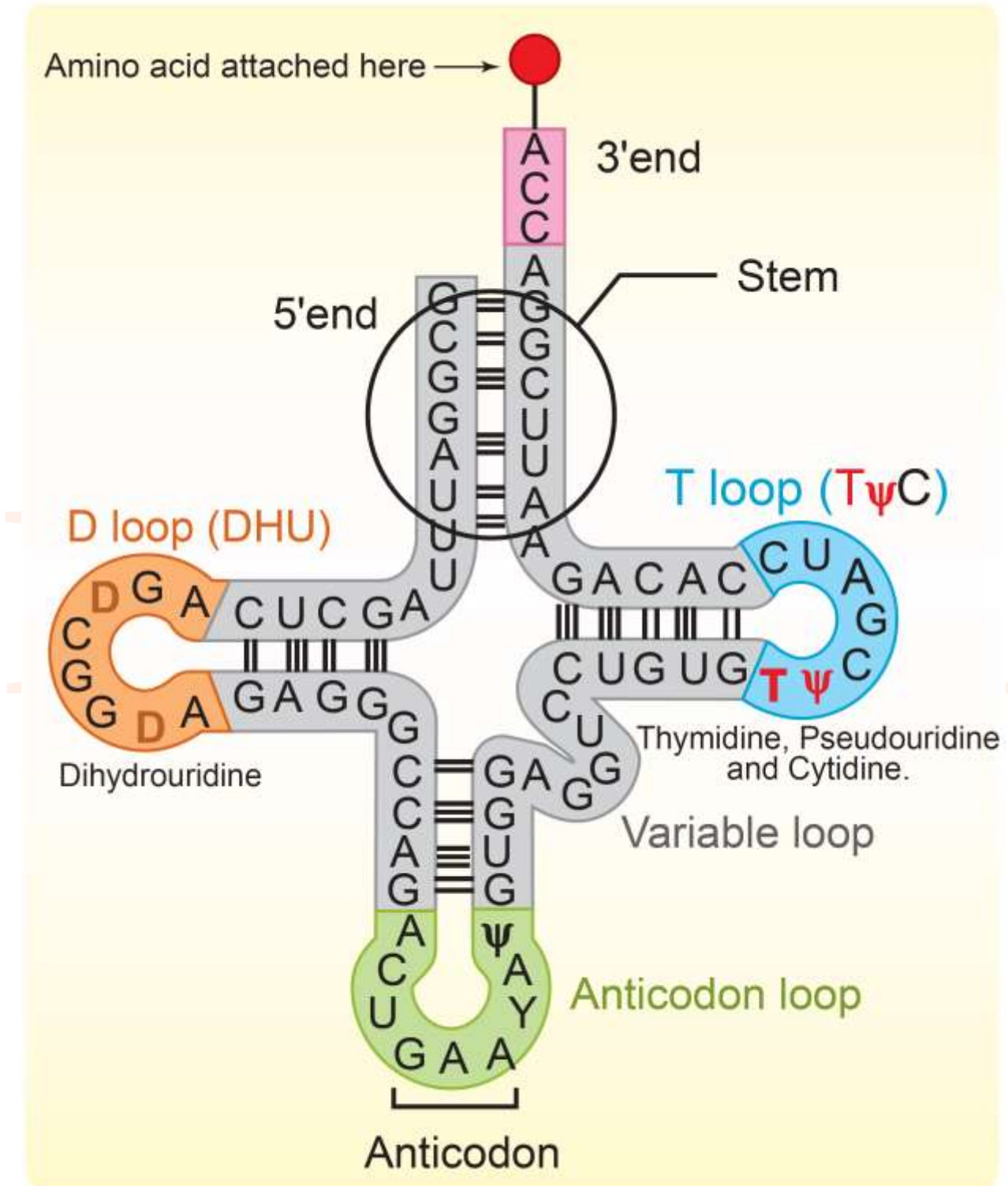


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CLOVER LEAF MODEL OF TRANSFER RNA

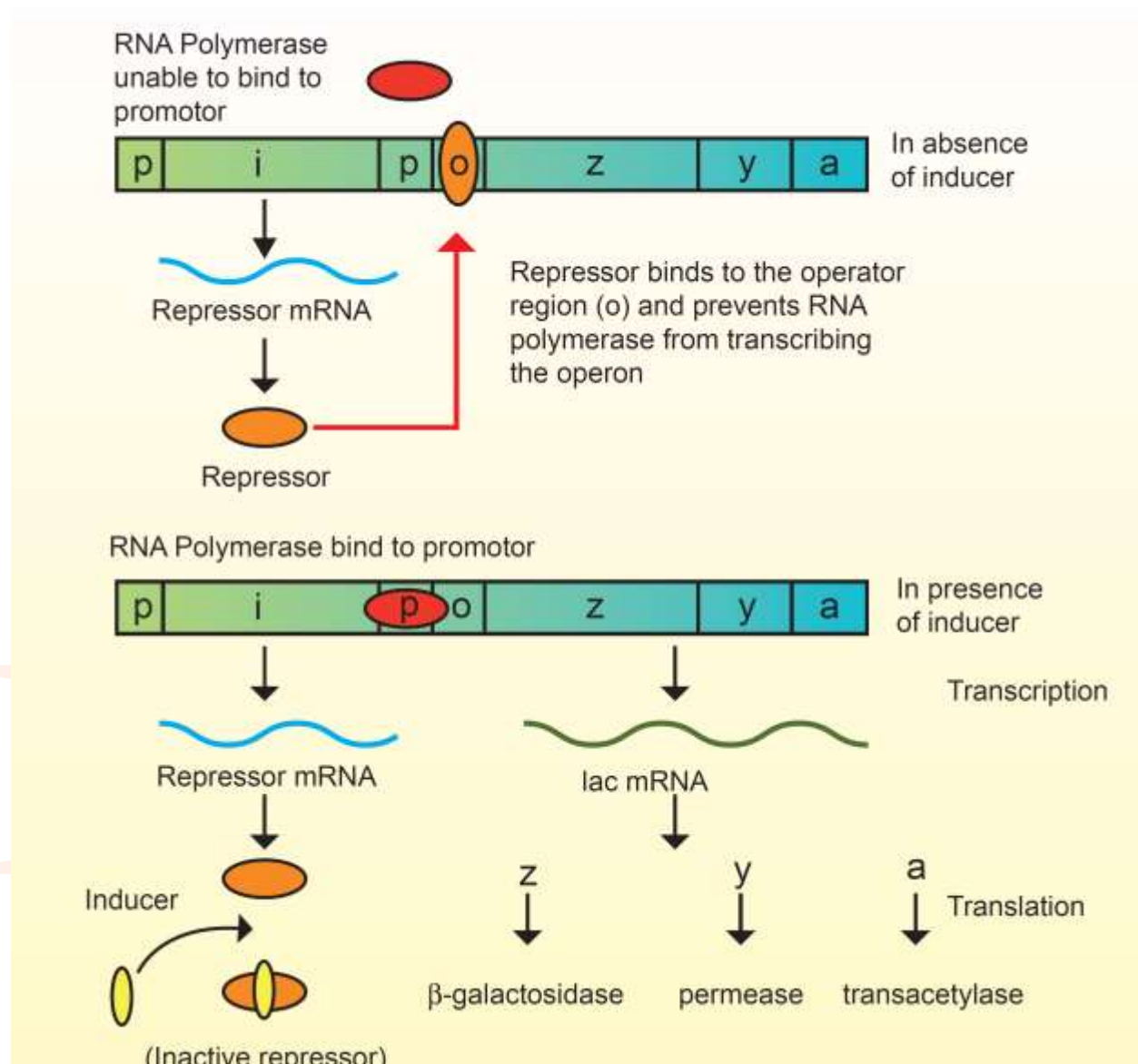


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LAC OPERON MODEL

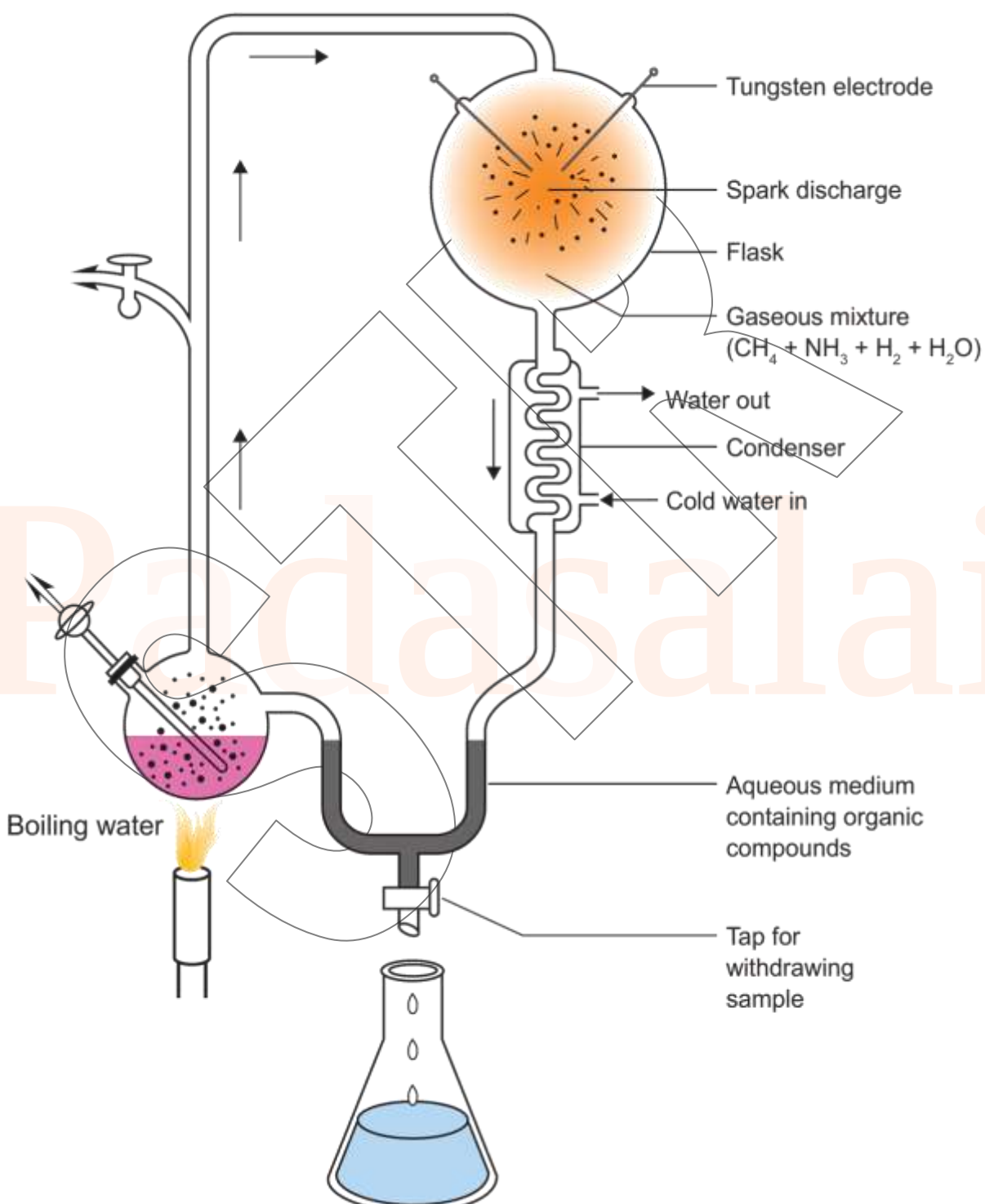


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UREY-MILLER'S EXPERIMENT

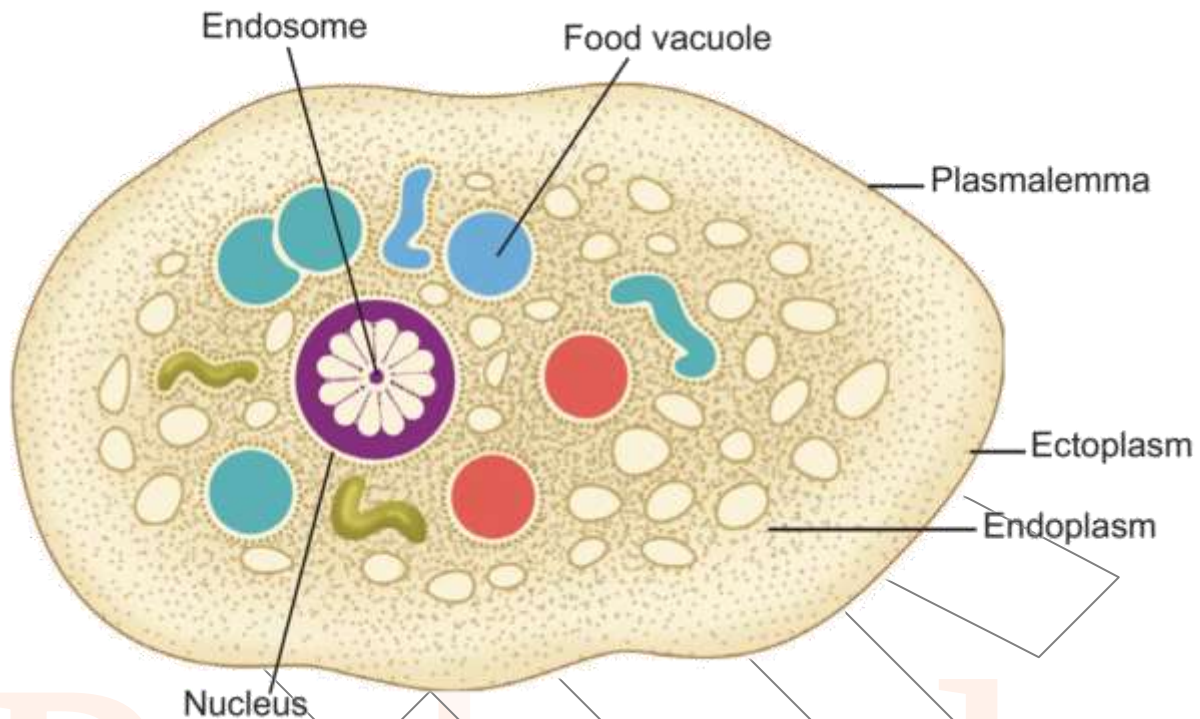


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ENTAMOEBA HISTOLYTICA

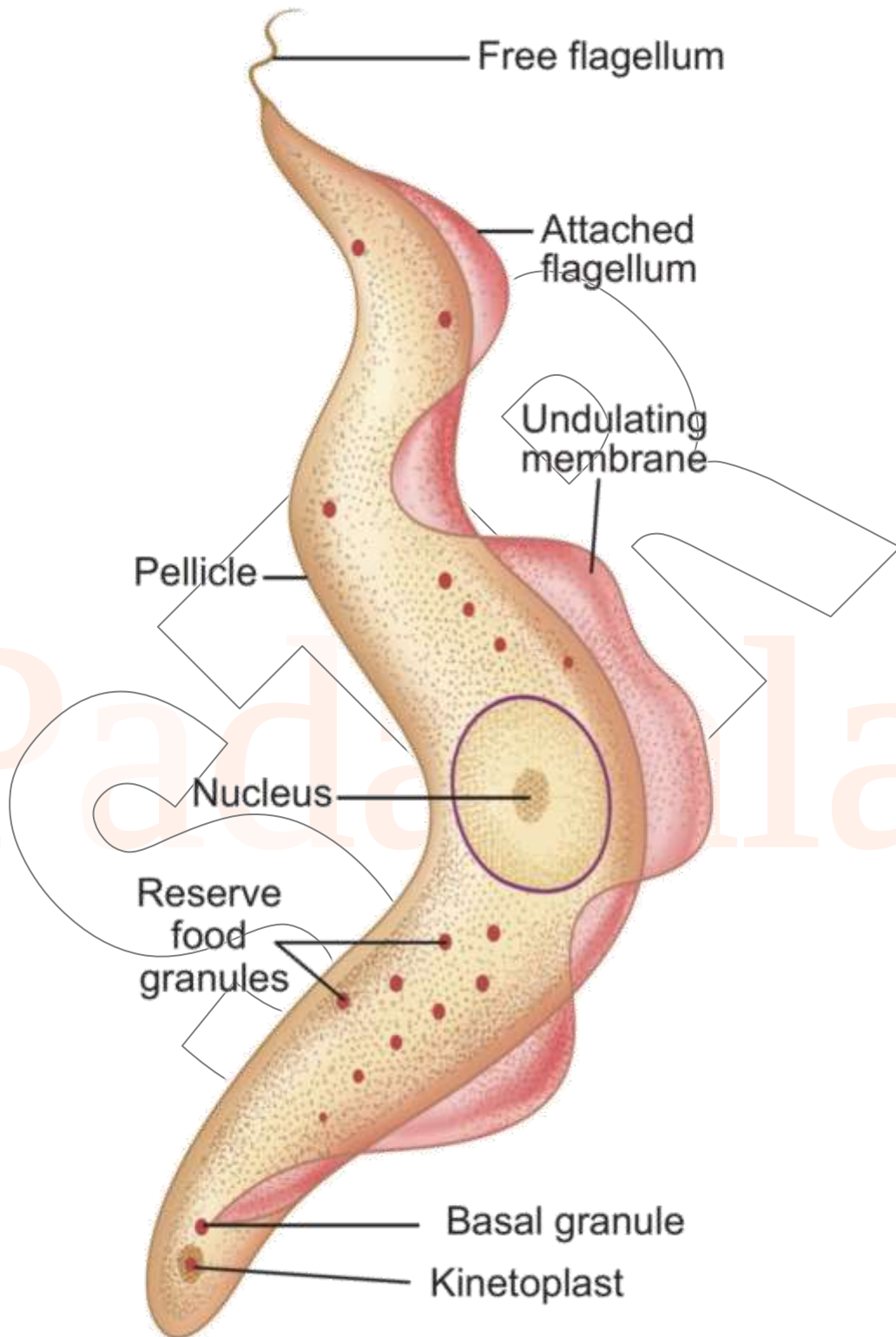


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TRYPANOSOMA GAMBIENSE



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The diagram illustrates the life cycle of *Plasmodium*, divided into two main stages: **In mosquito gut** and **In human**.

In mosquito gut:

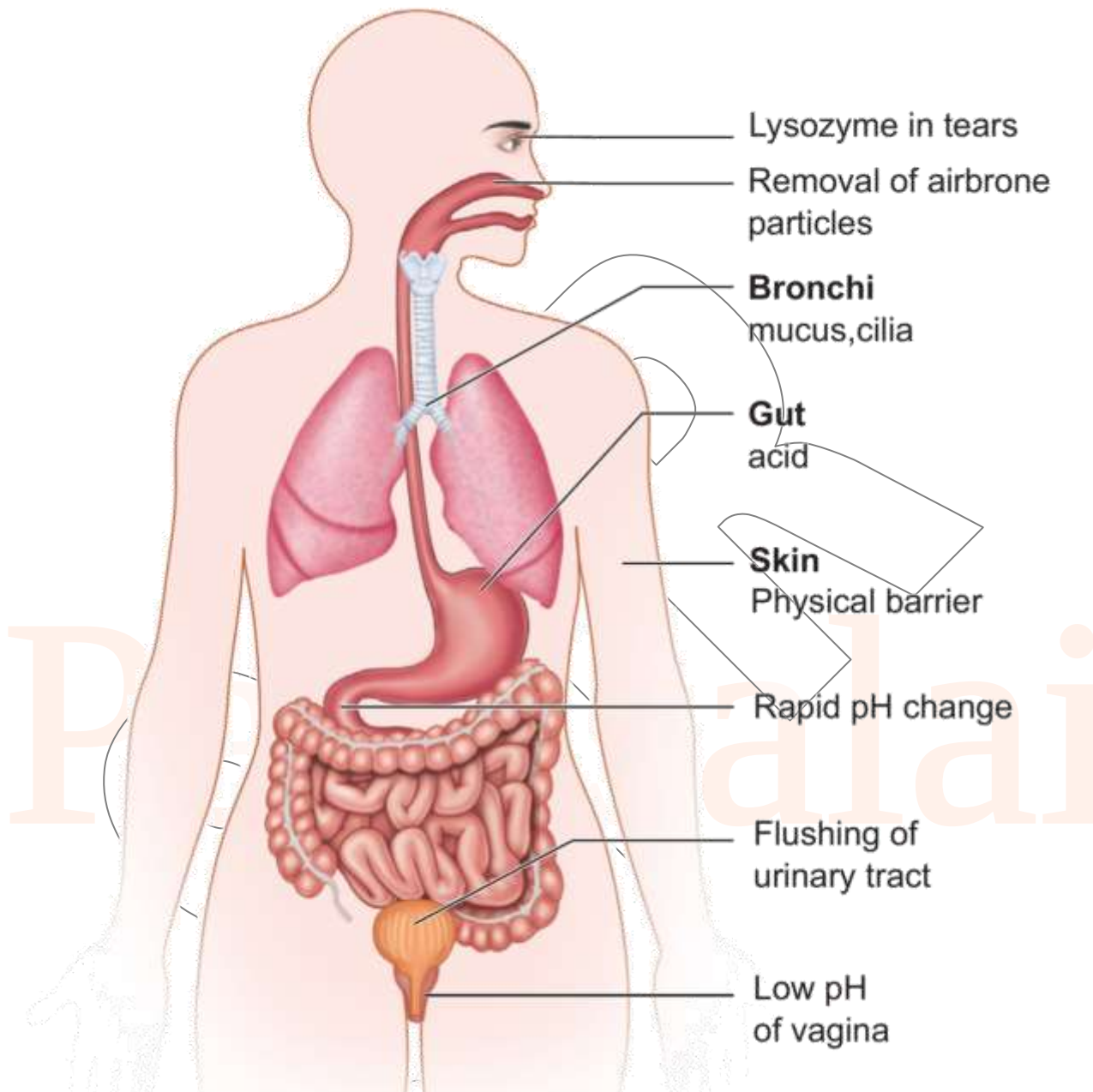
- Sporozoites** are injected into the mosquito by a human.
- Sporozoites travel to the **Salivary glands**.
- An **Oocyst** is formed in the gut.
- DNA replication followed by sporogony** occurs within the oocyst.
- Ookinete** cells are produced.
- DNA replication and Meiosis** occur, leading to the formation of a **Zygote**.
- The zygote develops into a **Macrogamete** and a **Microgamete**.
- Exflagellation** occurs, resulting in **Macrogametocyte** (female) and **Microgametocyte** (male) stages.

In human:

- Sporozoites** are injected into the human by a mosquito.
- Sporozoites travel to the **Liver**.
- Merozoites** are produced in the liver.
- Merozoites infect **RBCs** (Red Blood Cells).
- The infection progresses through **Early trophozoite forms**, **Mid trophozoite** (where the **S phase begins**), **Signet ring forms**, and **Schizont forms**.
- Merozoites rupture from RBC**, releasing more merozoites.
- Hemozoin** is produced as a byproduct.
- The cycle can continue in the liver or progress to **Gametocytes Plasmodium**, which are then taken up by a mosquito during a blood meal.

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ANATOMICAL AND PHYSIOLOGICAL BARRIERS

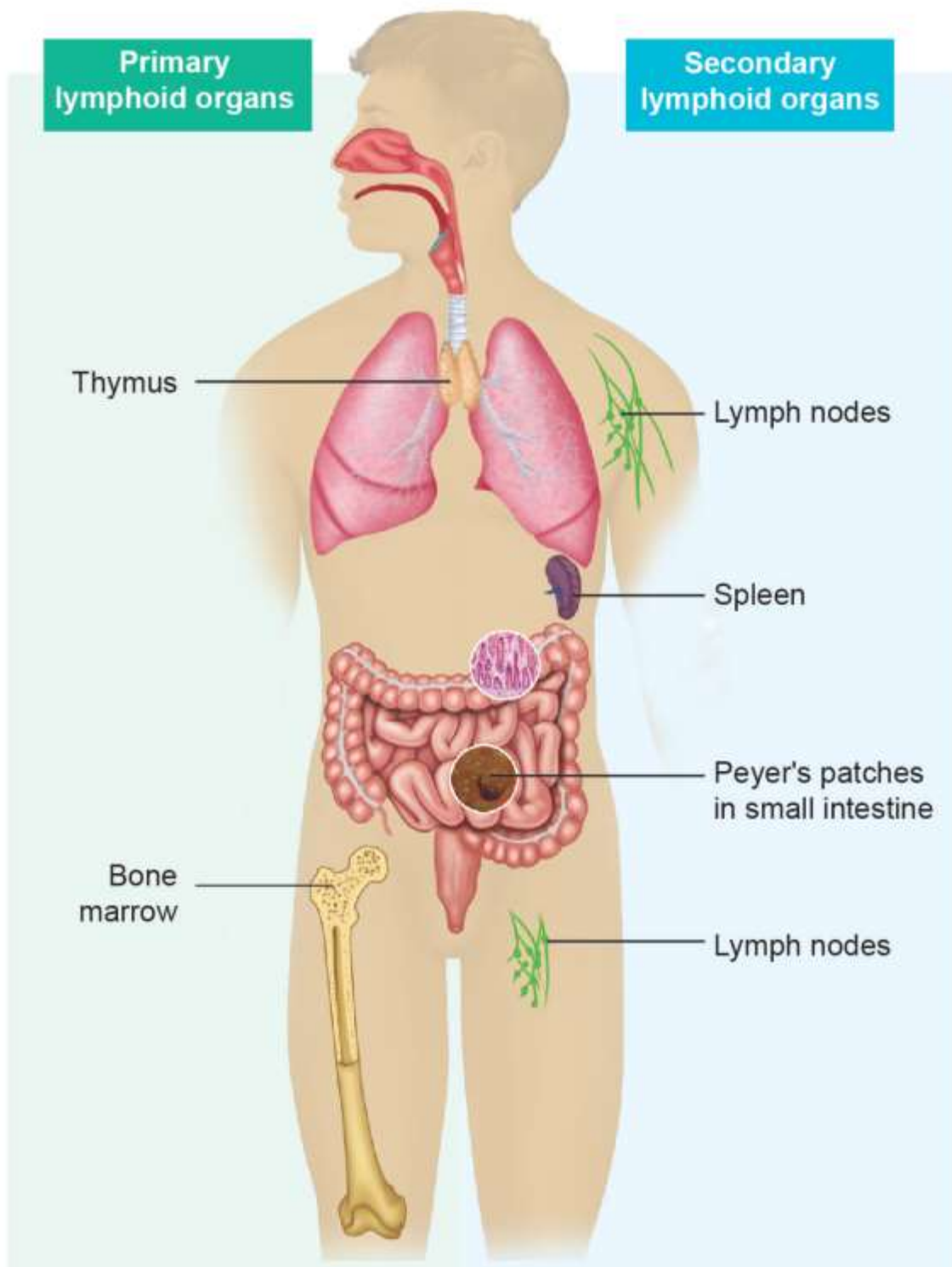


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LYMPHOID ORGANS IN HUMAN BODY

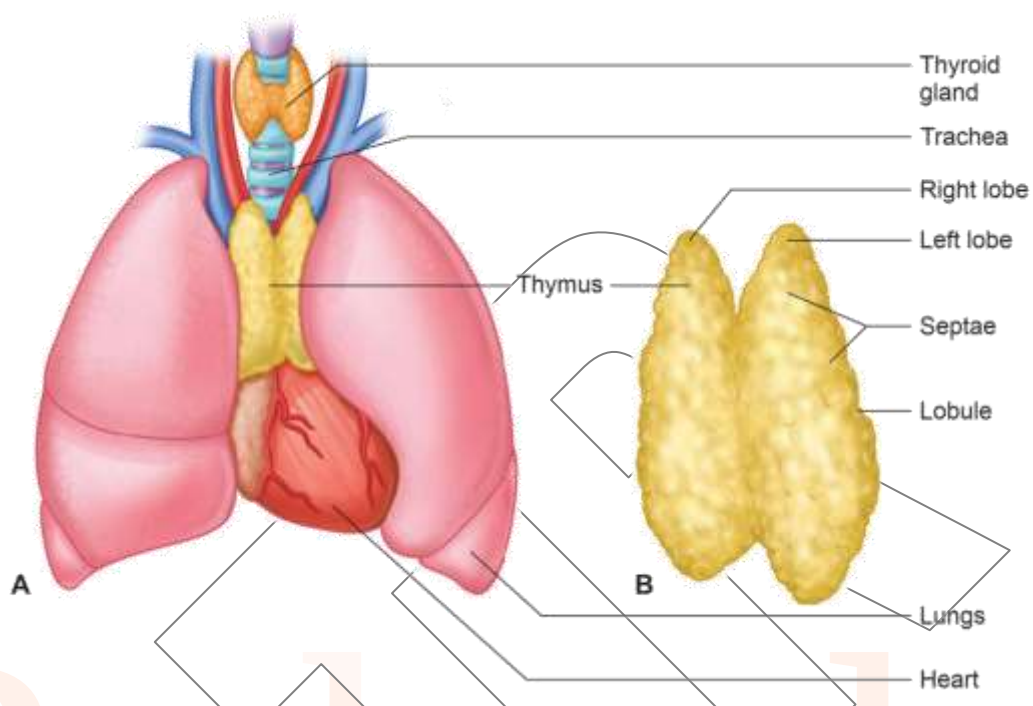


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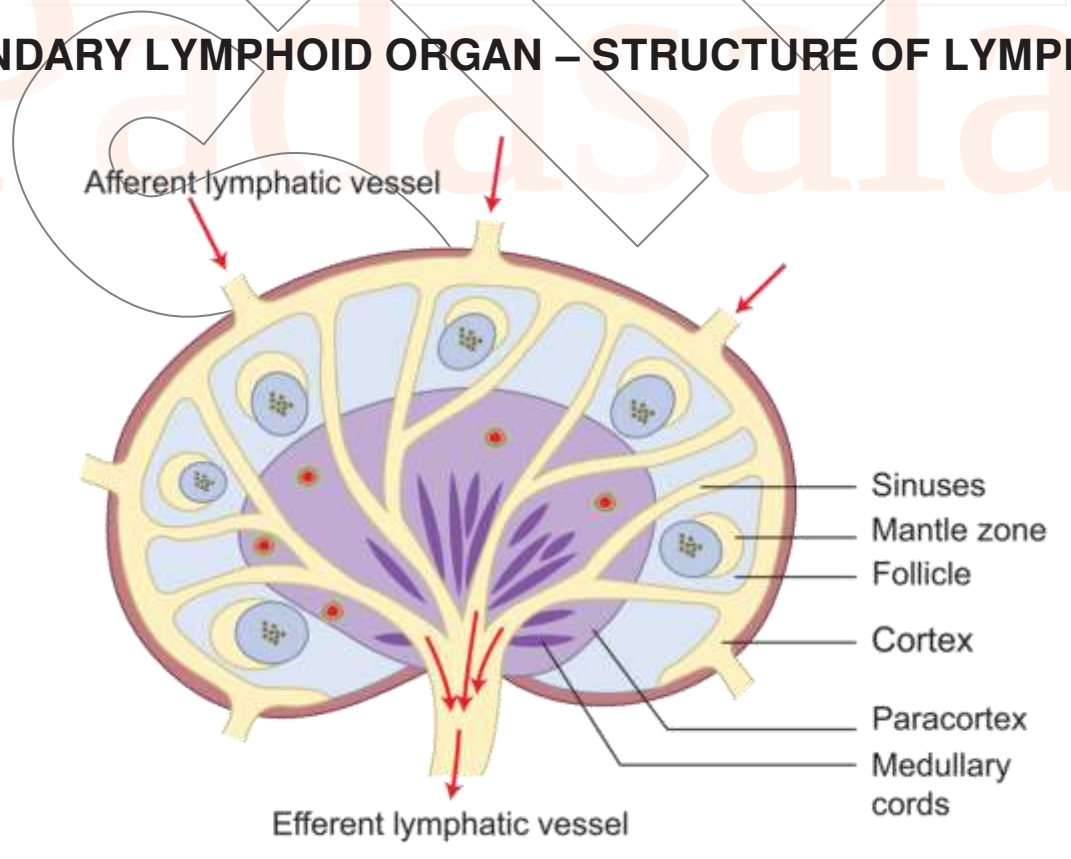
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PRIMARY LYMPHOID ORGAN - THYMUS



SECONDARY LYMPHOID ORGAN – STRUCTURE OF LYMPH NODE

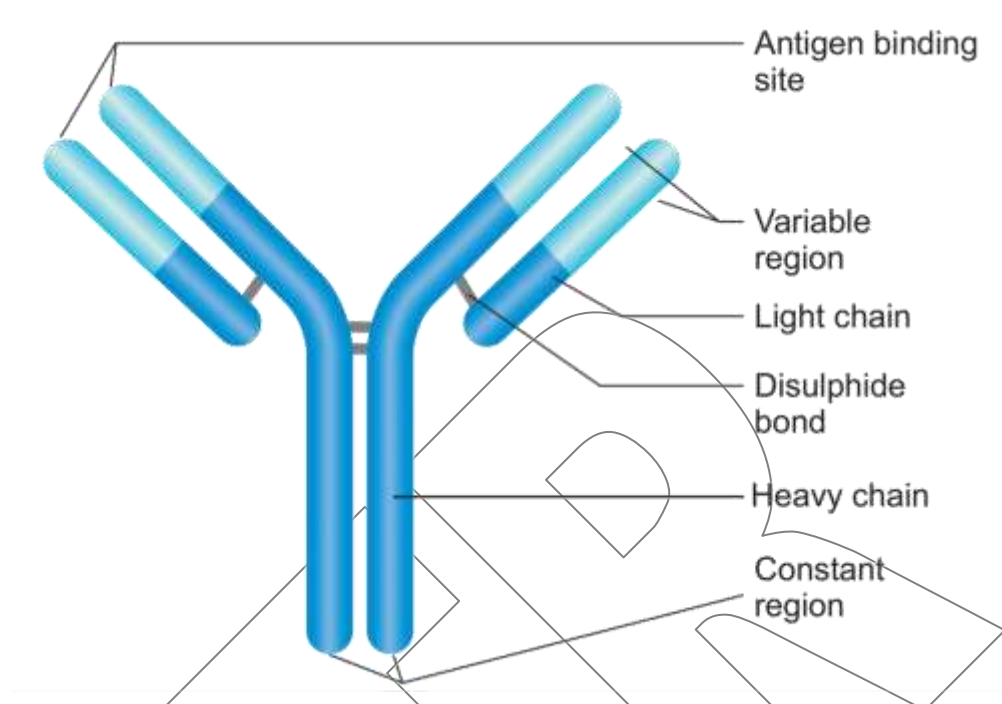


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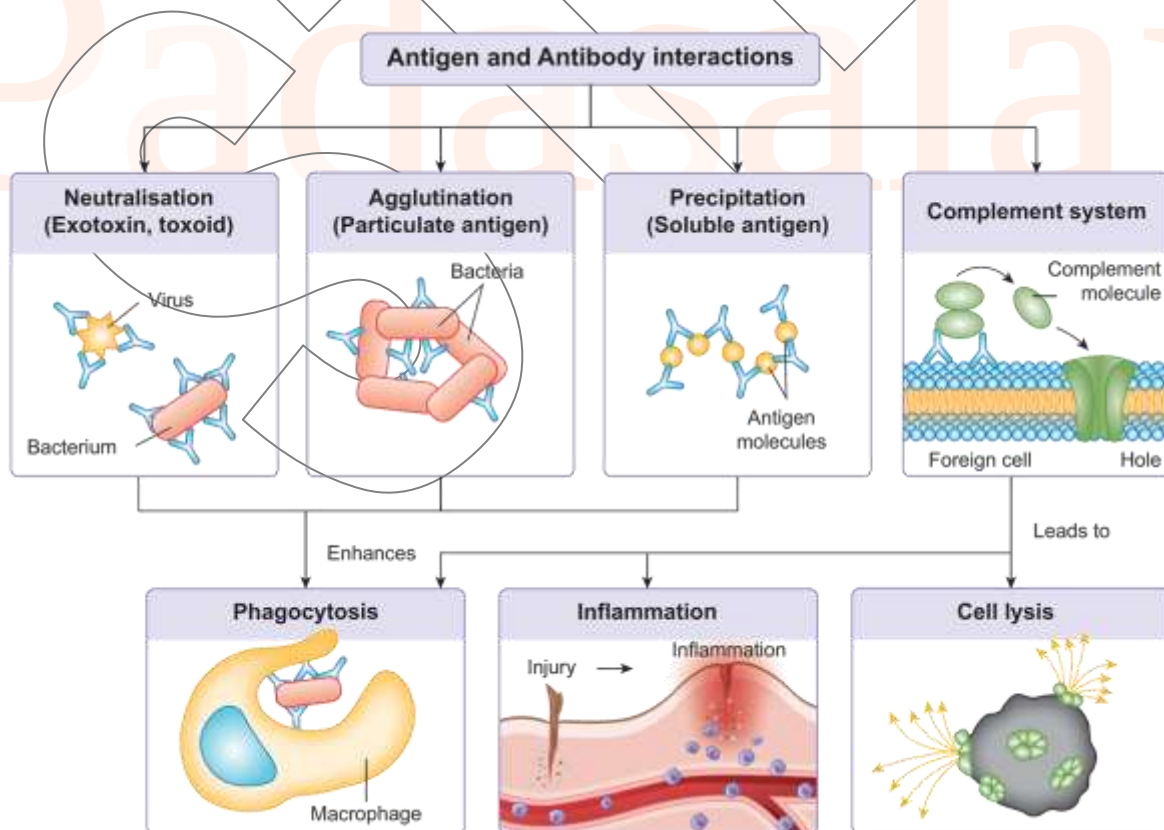
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STRUCTURE OF IMMUNOGLOBULIN



ANTIGEN AND ANTIBODY REACTION

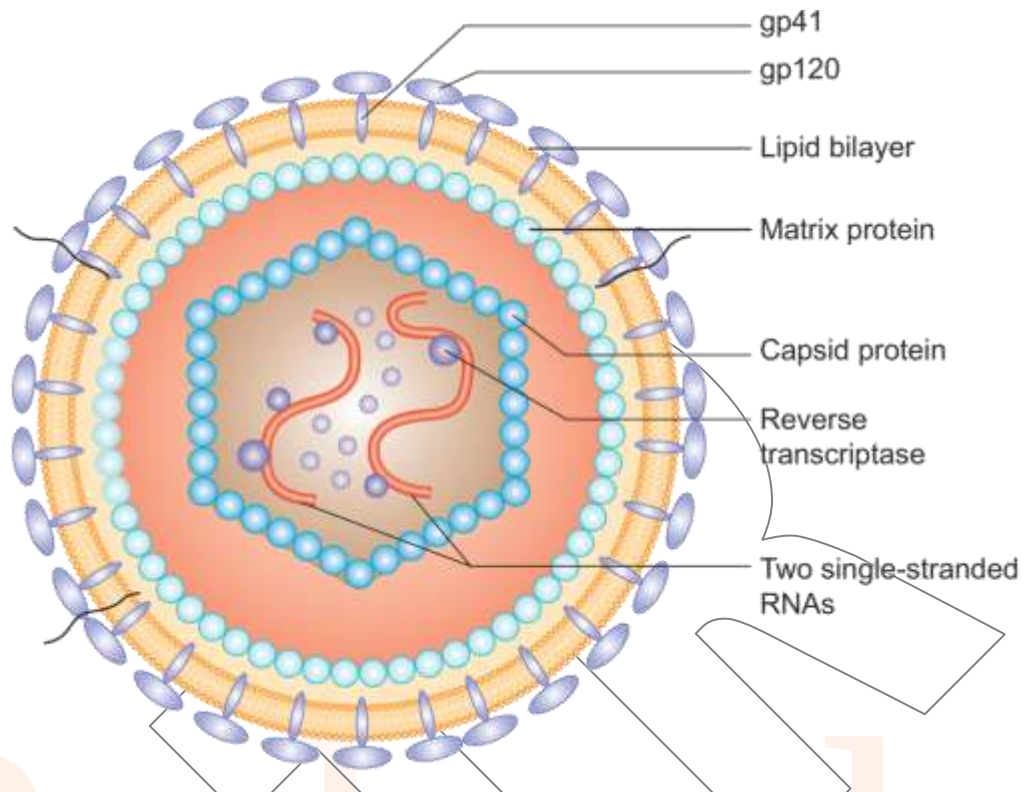


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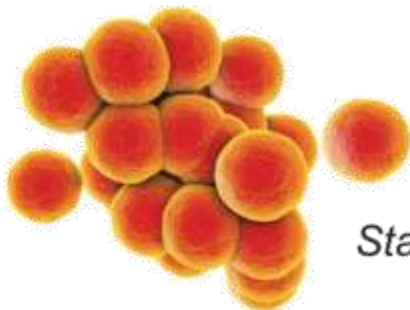
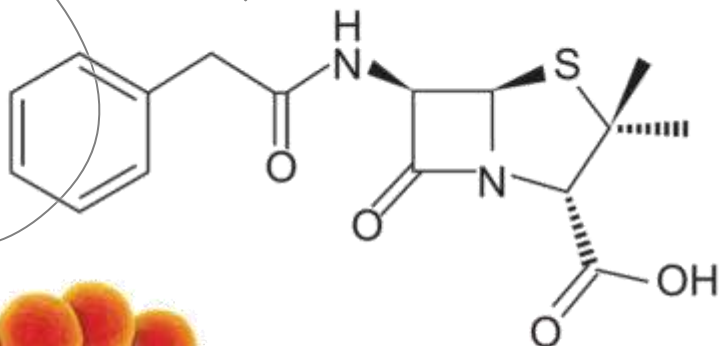
STRUCTURE OF HIV



PENICILLIN



Penicillium chrysogenum



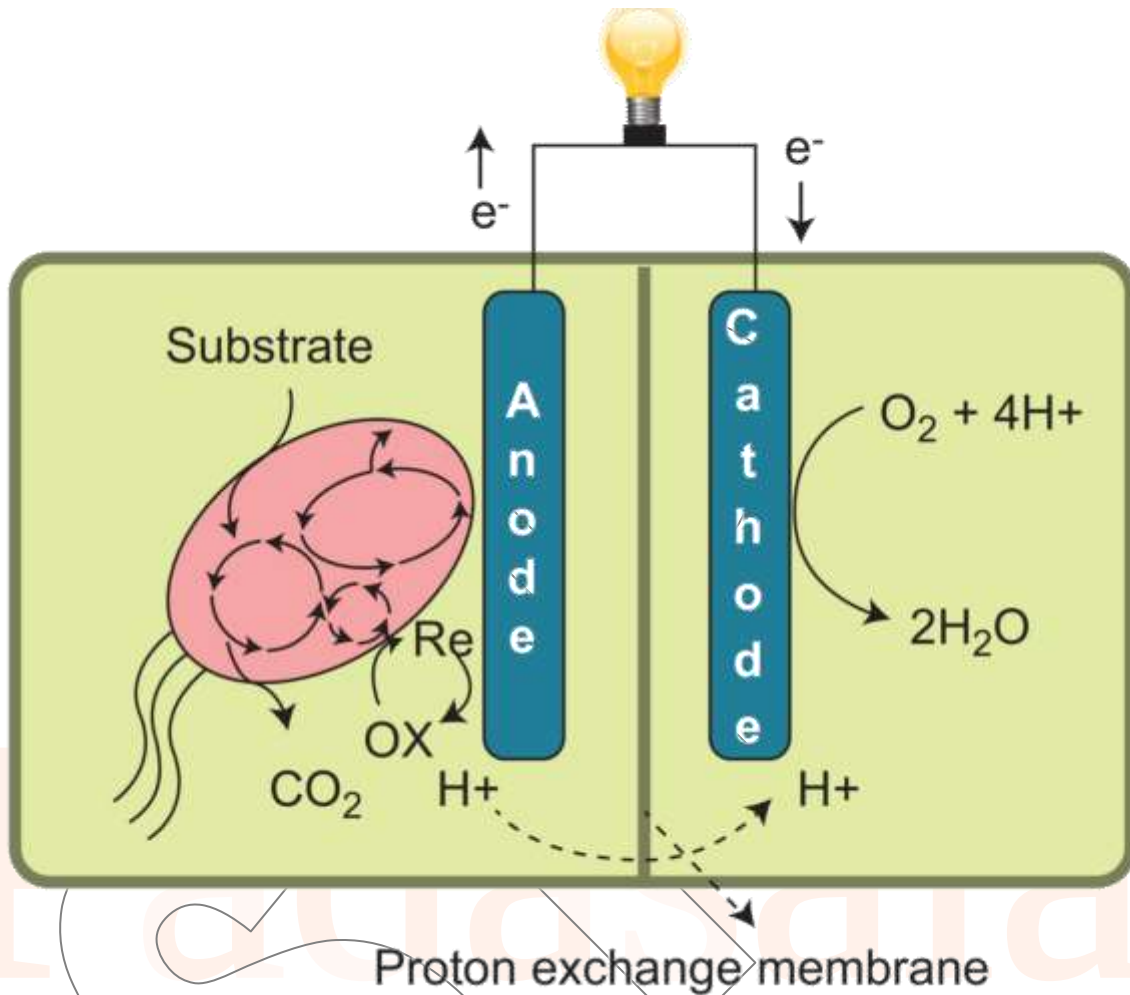
Staphylococcus aureus

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MICROBIAL FUEL CELL

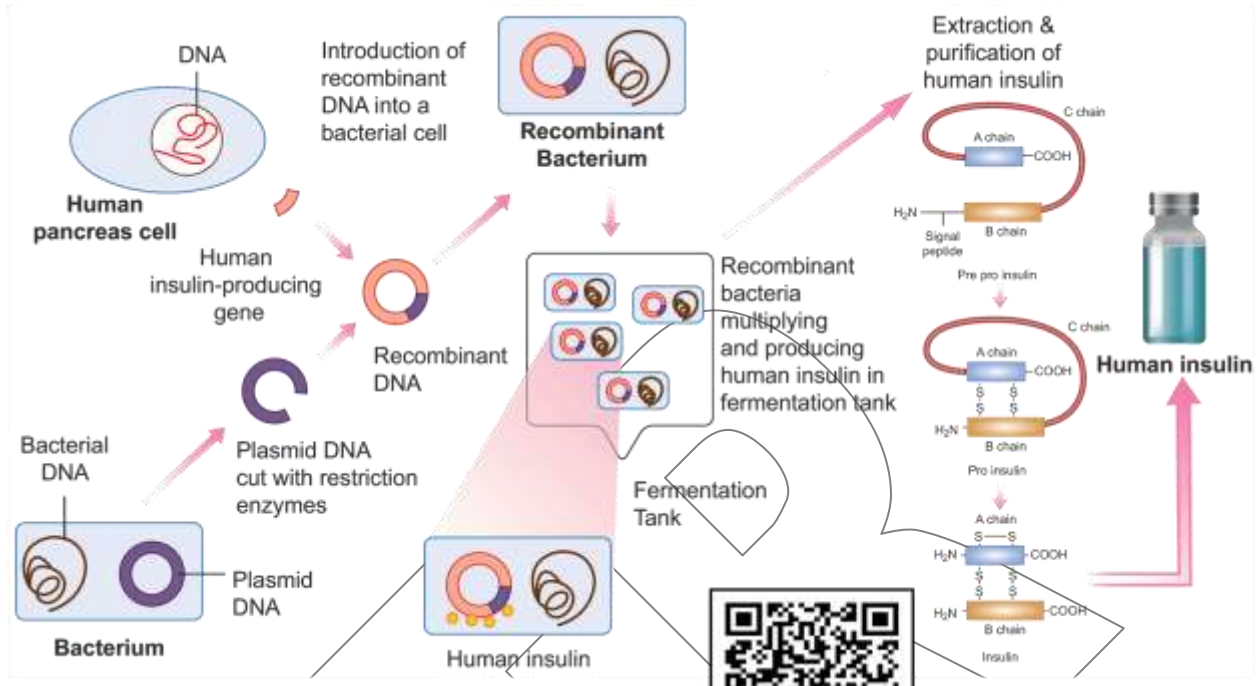


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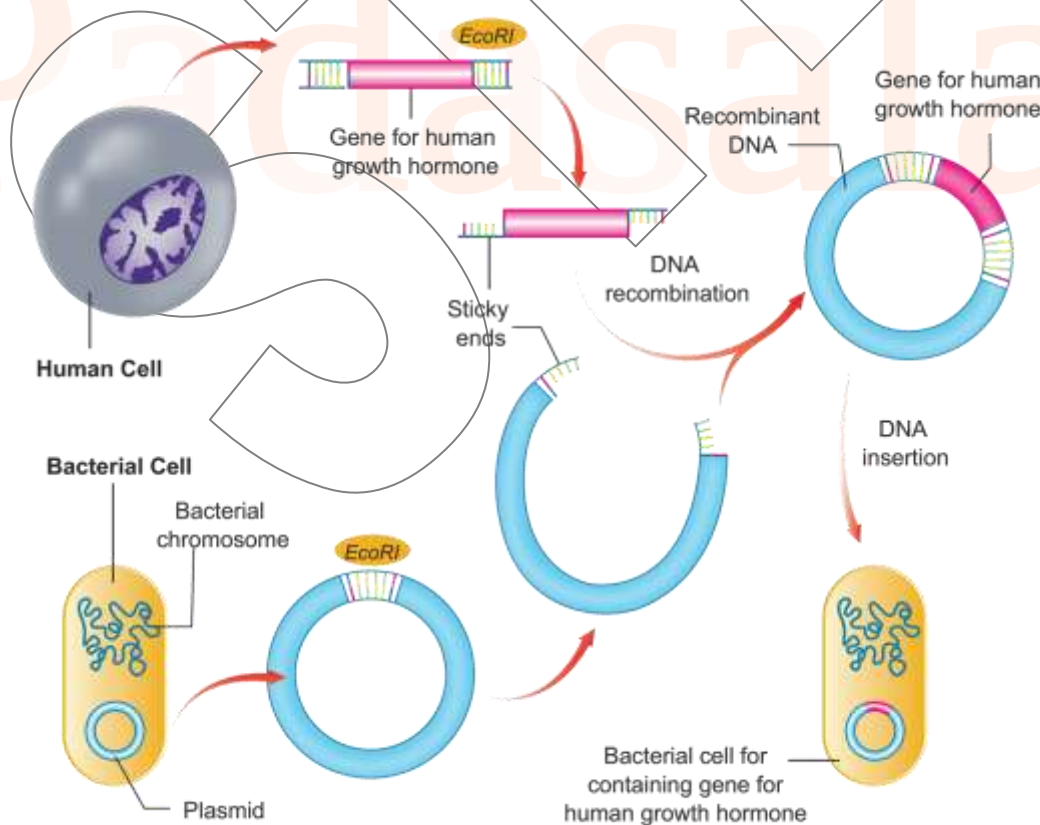
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HUMAN INSULIN PRODUCTION



PRODUCTION OF HUMAN GROWTH HORMONE

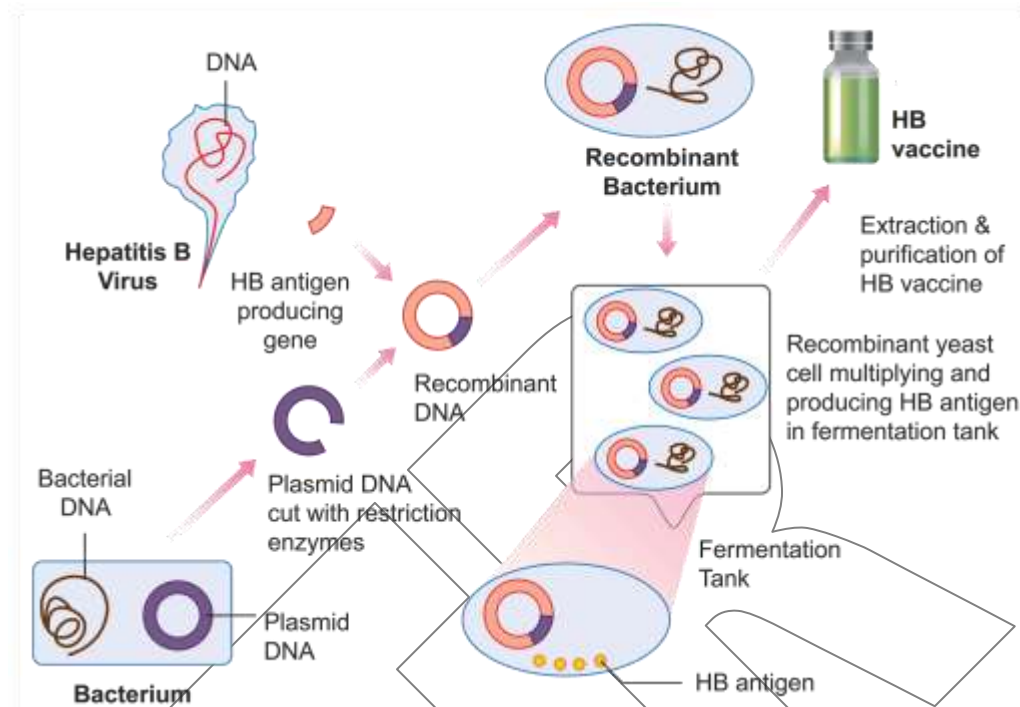


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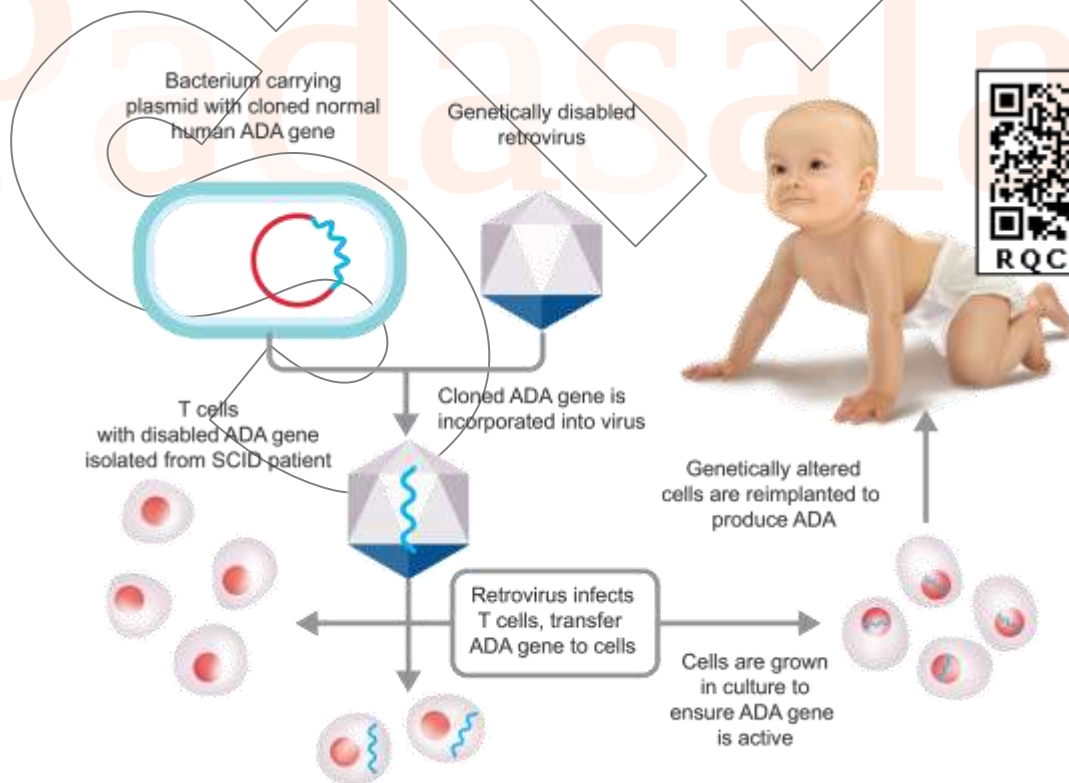
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PRODUCTION OF RECOMBINANT HB VACCINE



PROCESS OF GENE THERAPY

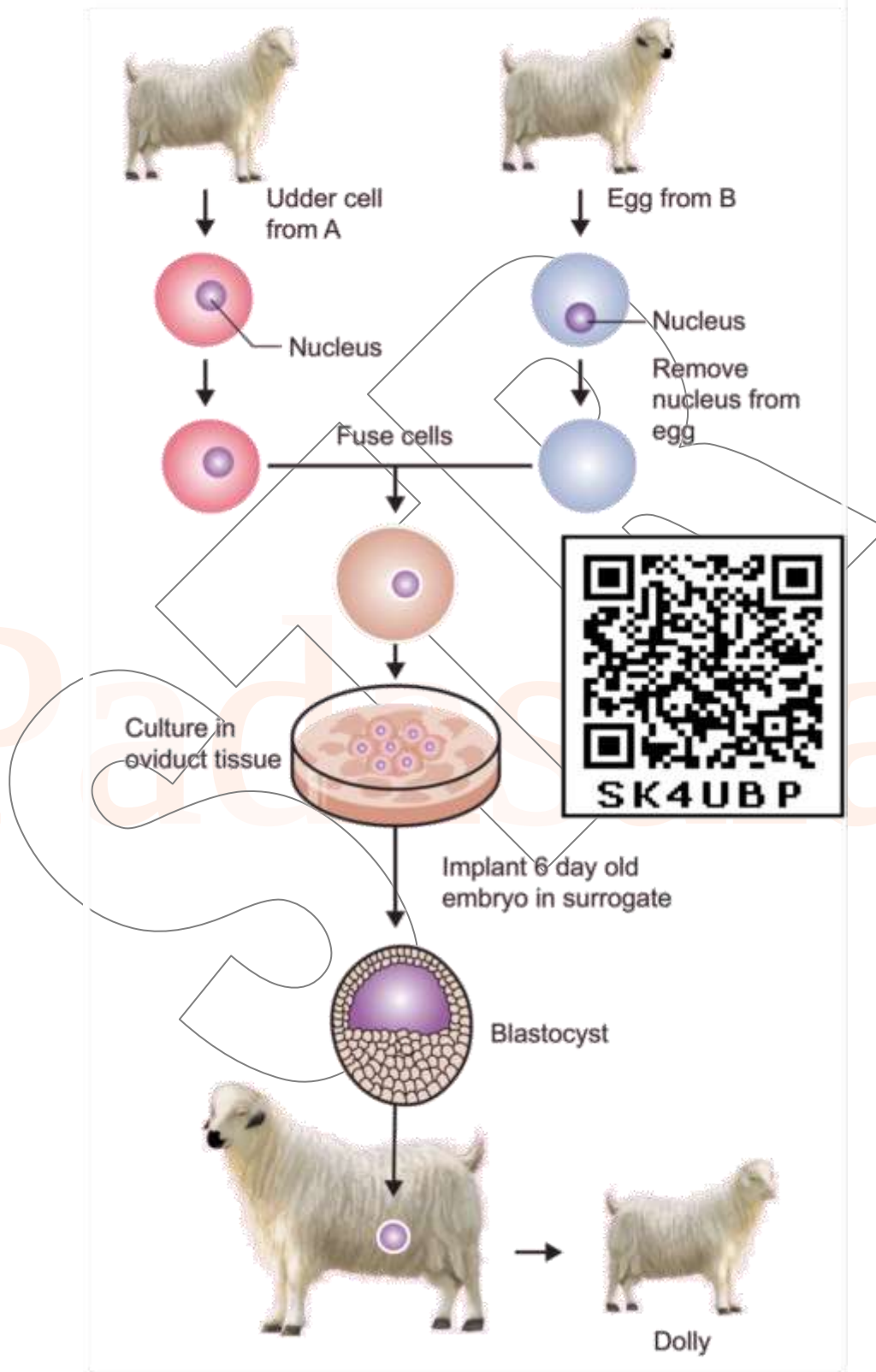


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CLONING OF DOLLY

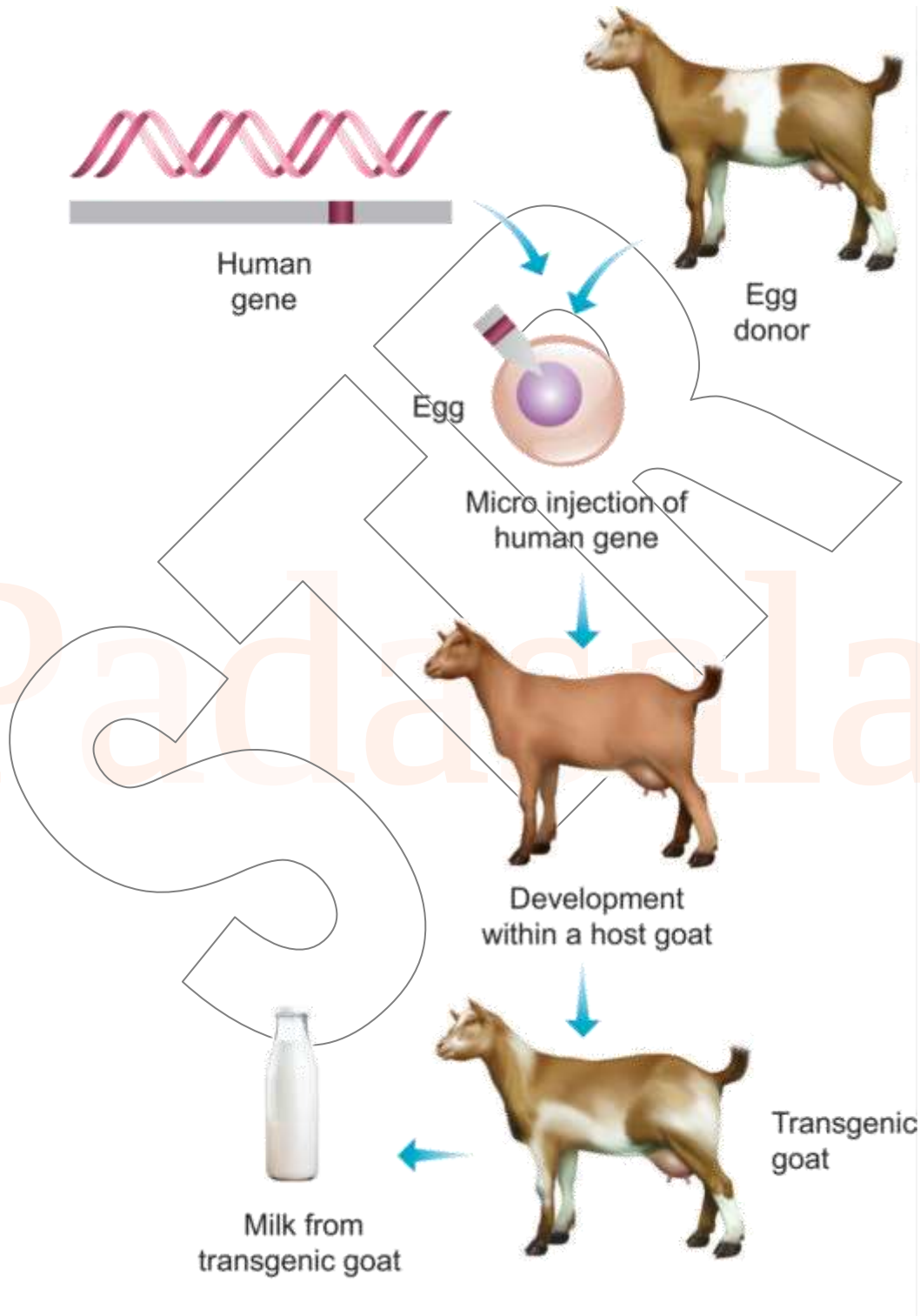


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PRODUCTION OF TRANSGENIC ANIMALS

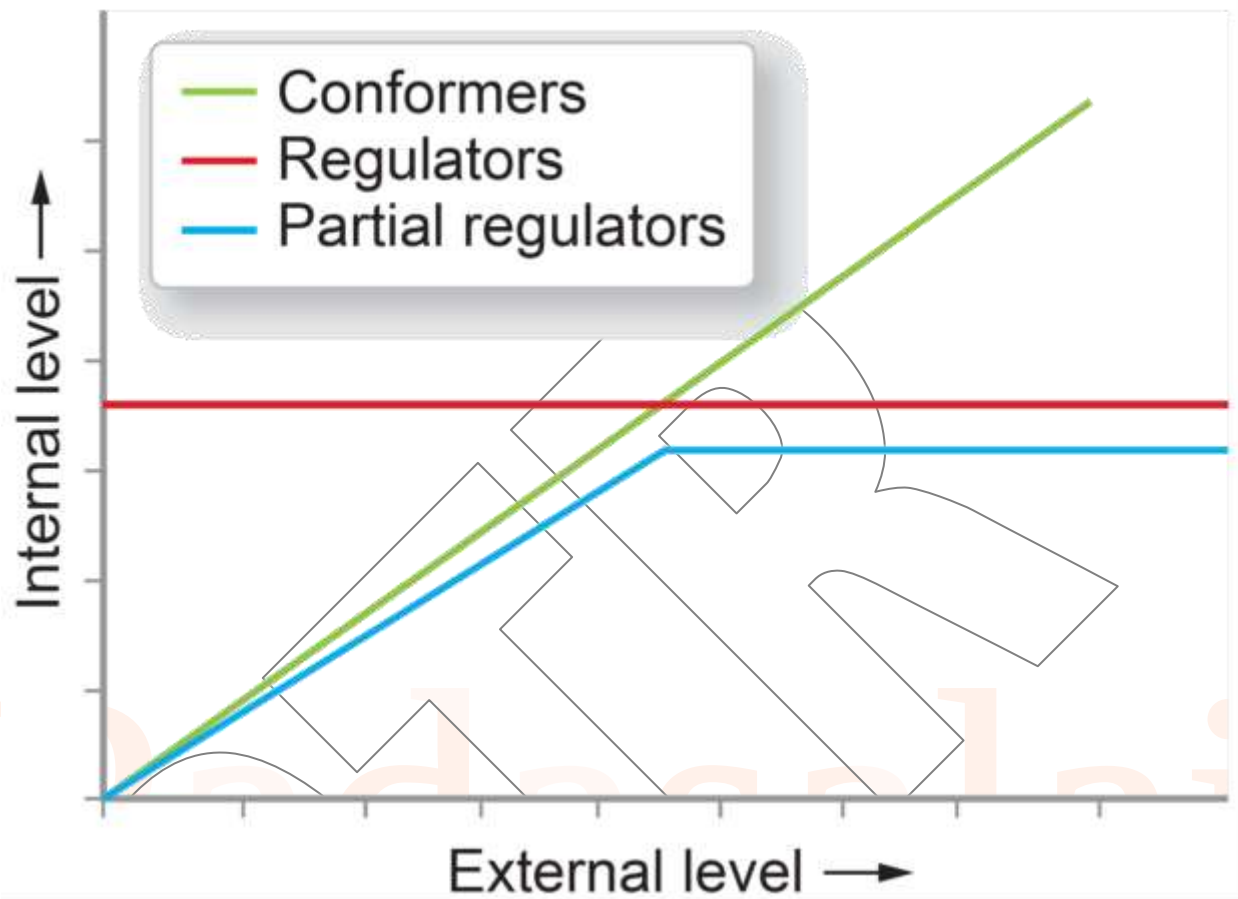


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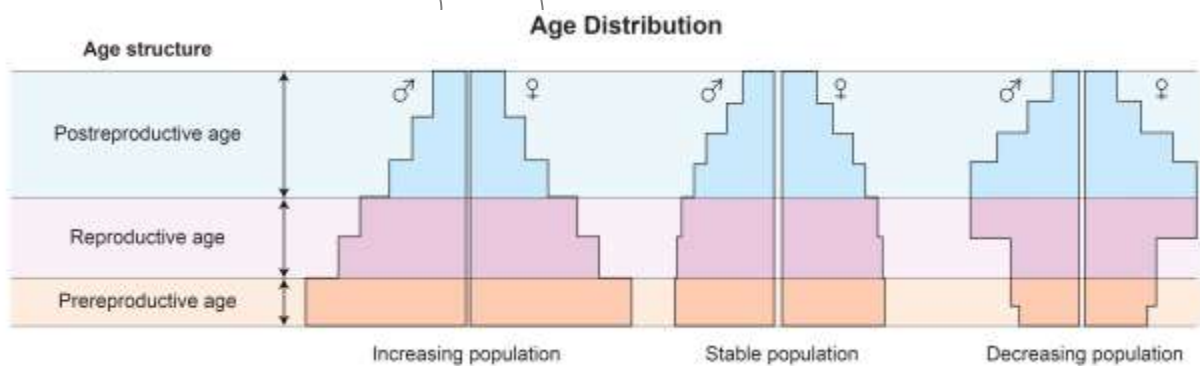
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ORGANISMS RESPONSE TO ENVIRONMENTAL STRESSORS



AGE DISTRIBUTION PYRAMIDS

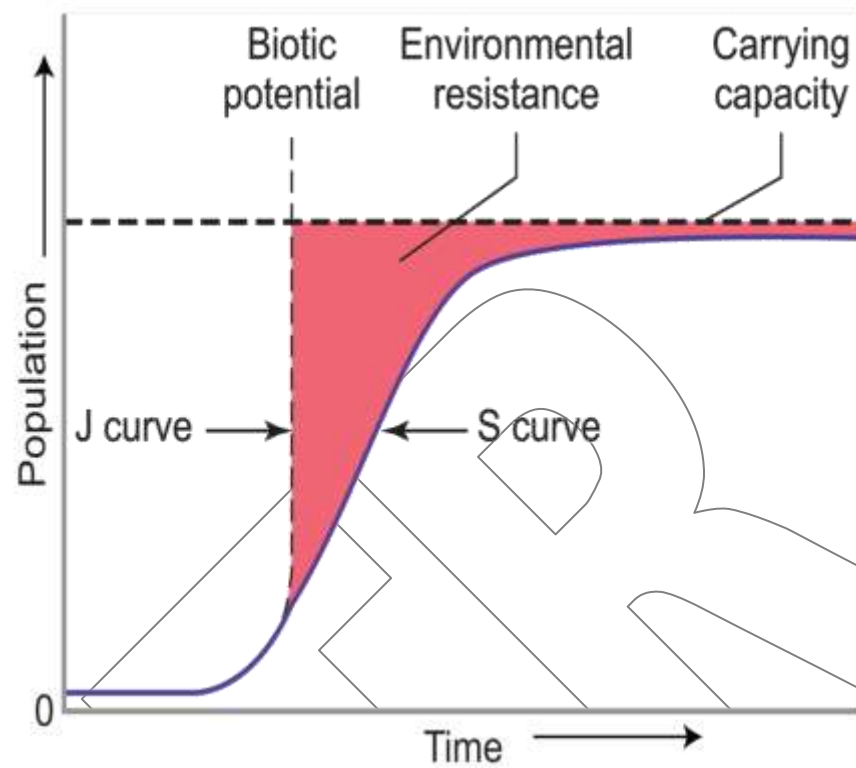


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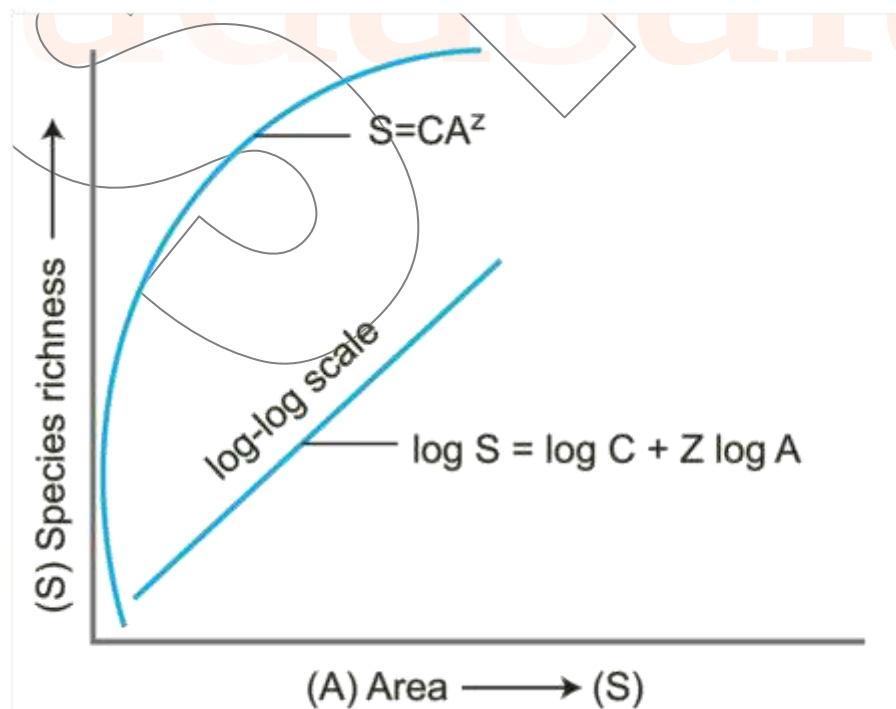
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J SHAPED AND S SHAPED GROWTH CURVE



SPECIES – AREA RELATIONSHIP ON LOG SCALE

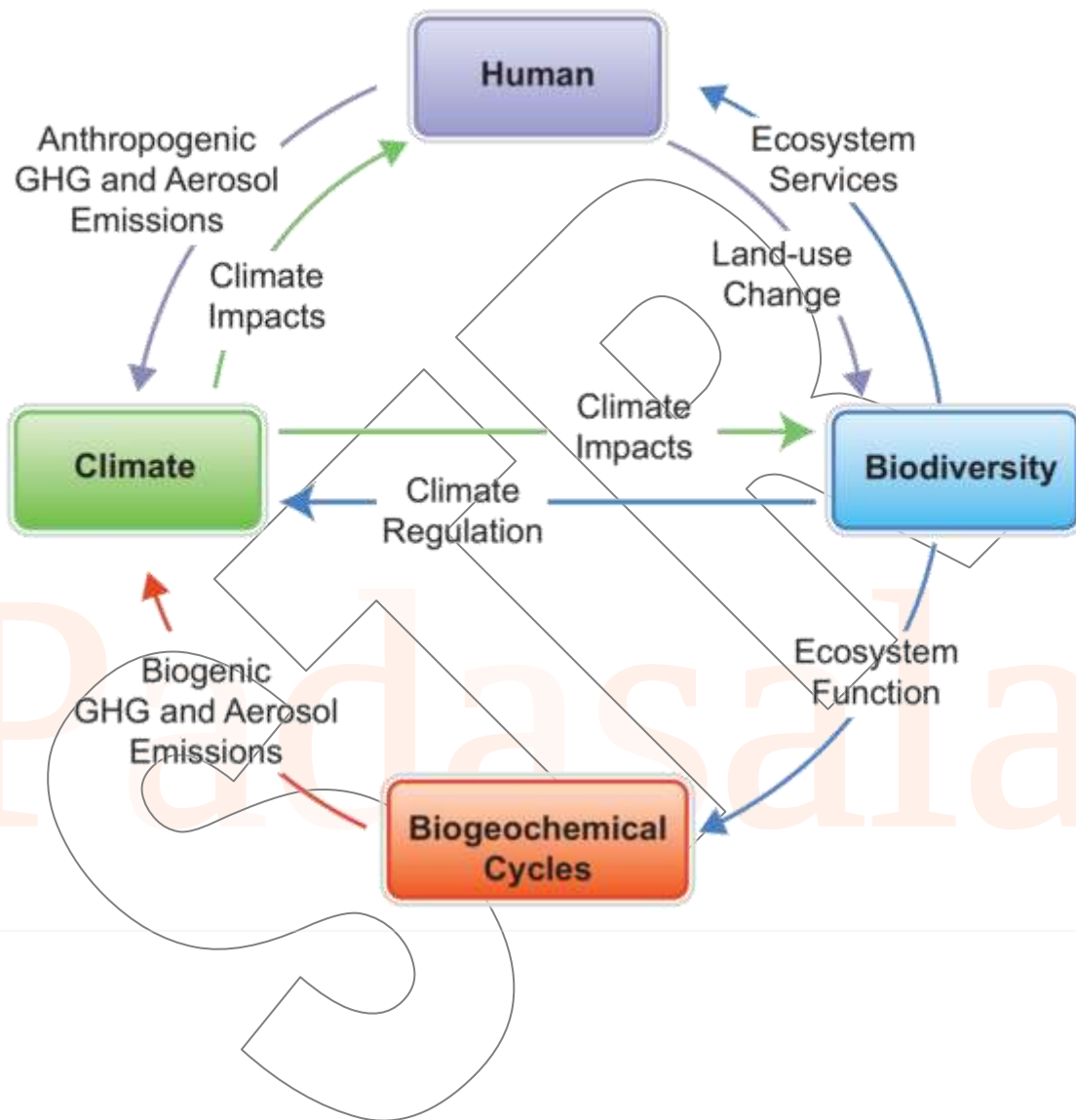


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LINKS BETWEEN BIODIVERSITY, CLIMATE CHANGE AND HUMAN WELL - BEING

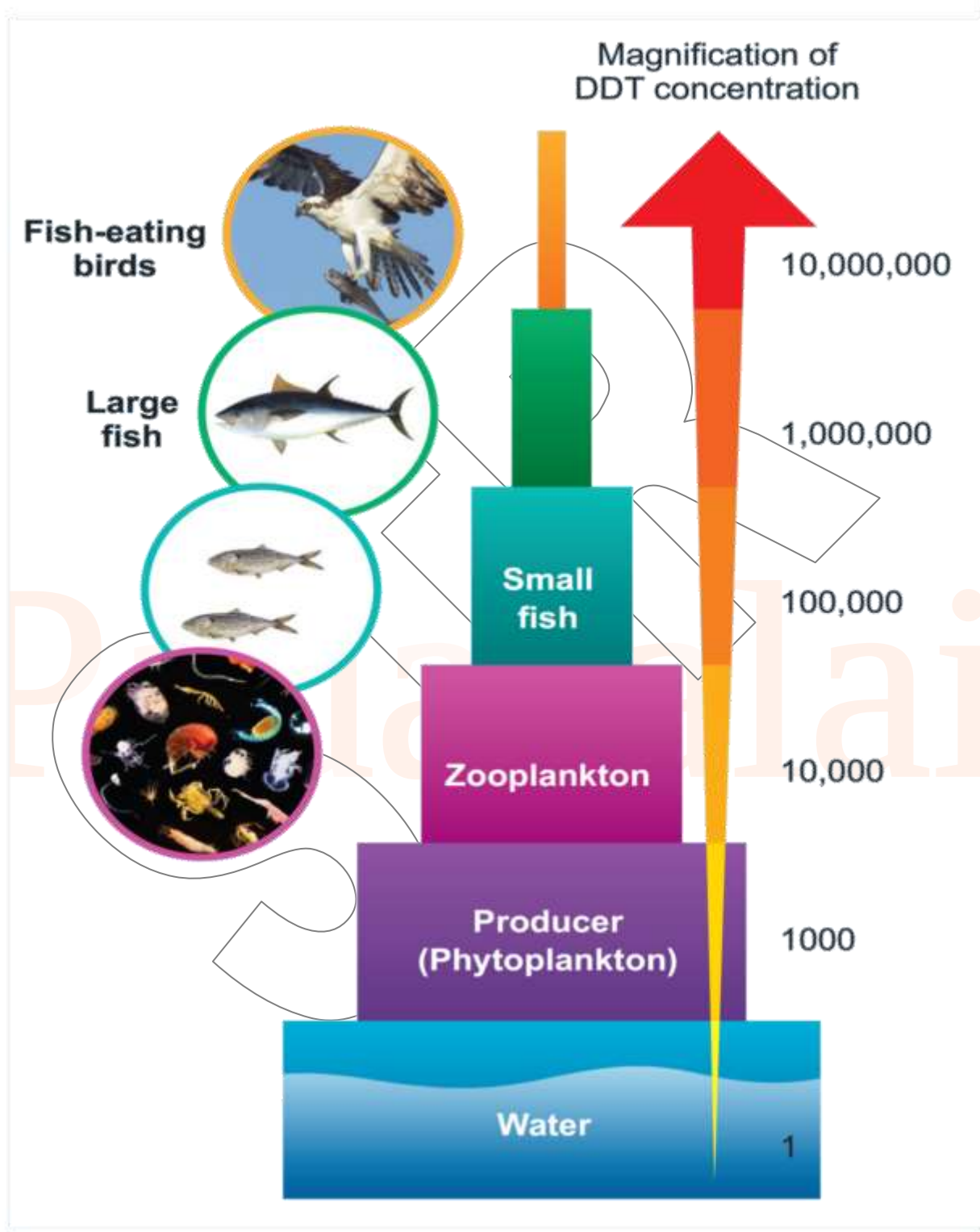


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BIOMAGNIFICATION



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