Indrayani Vidya Mandir's

INDRAYANI MAHAVIDYALAYA

Talegaon Dabhade, Tal-Maval, Dist. Pune (410507)

A.Y.2022-2023

CRITERION II - TEACHING-LEARNING AND EVALUATION

(2.3 - Teaching- Learning Process)

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process.

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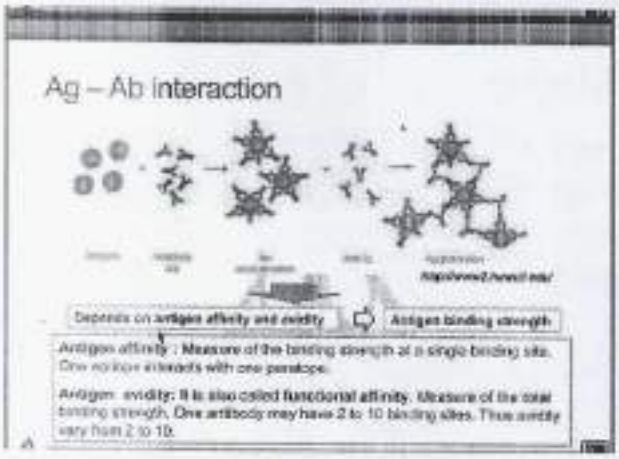
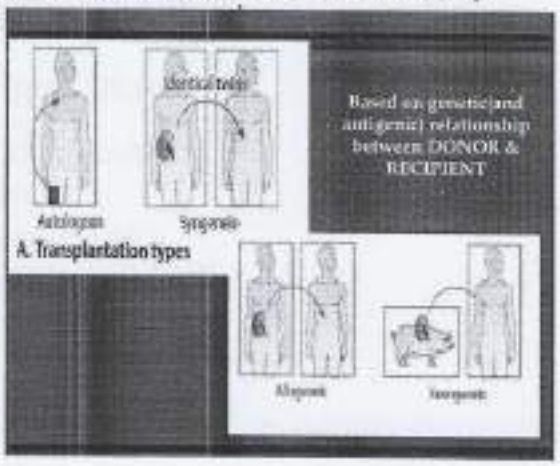
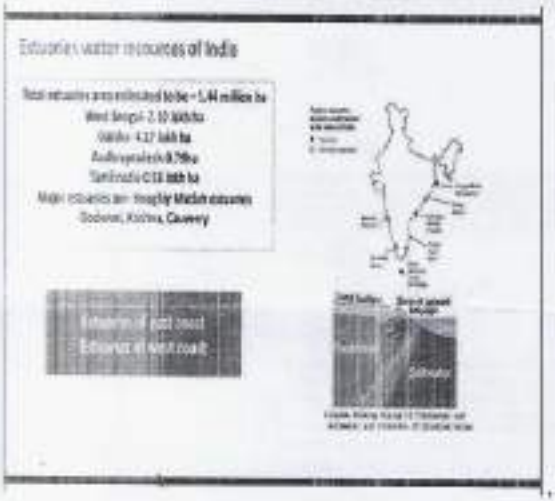
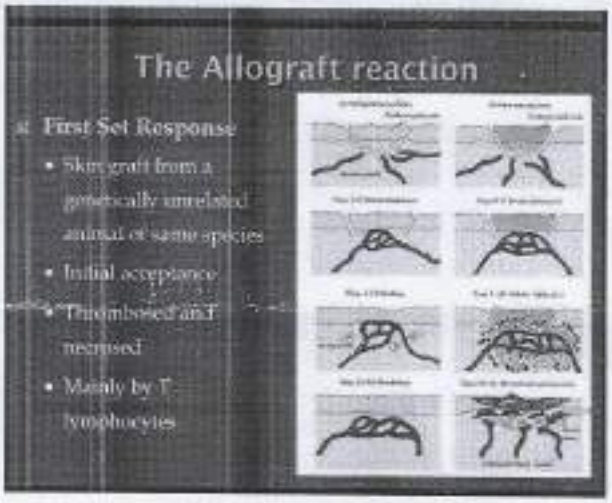
Talegaon (Dabhade)

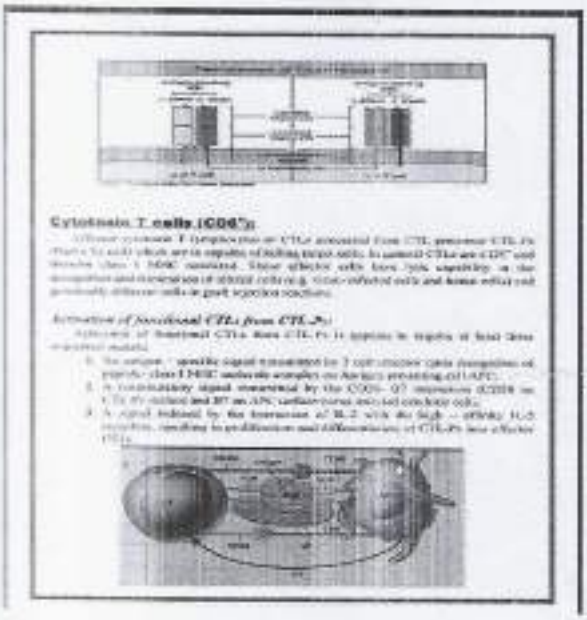
Academic PPT of TYBSc Microbiology (Use of ICT)

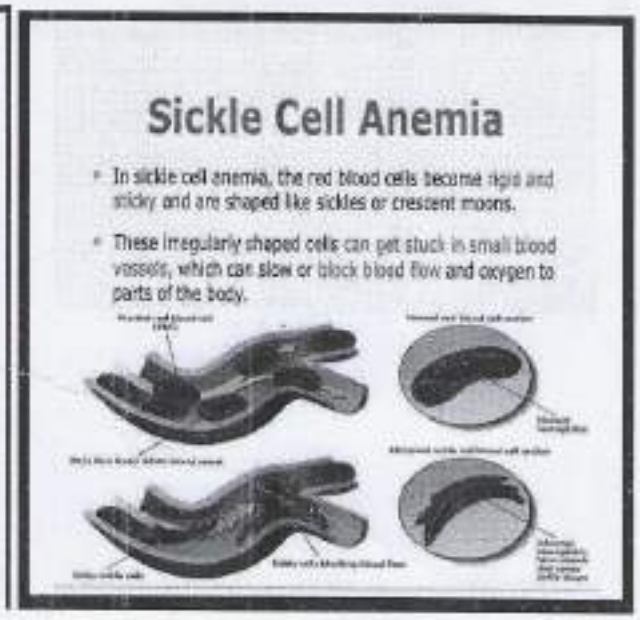


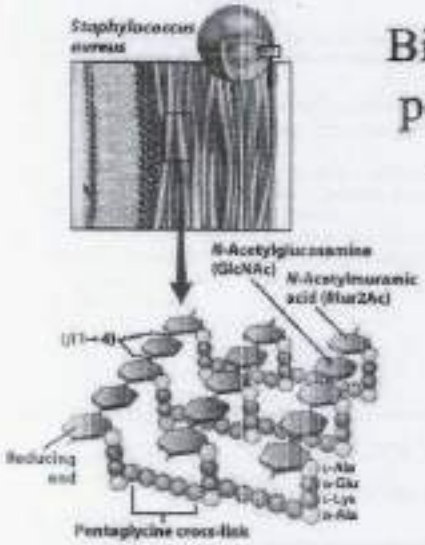






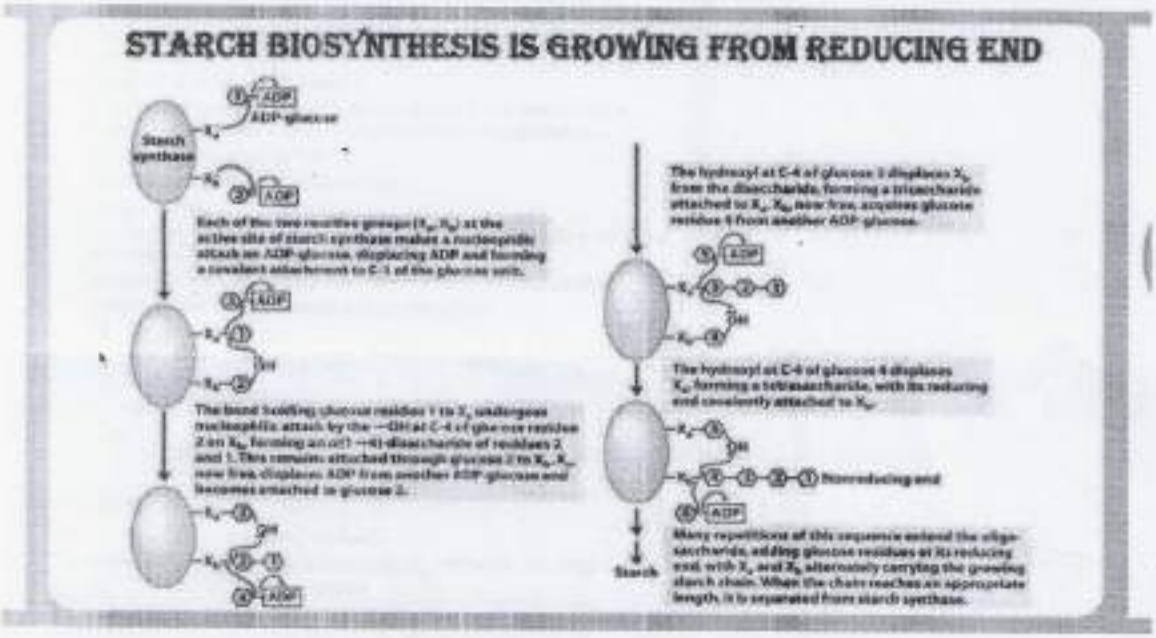






Biosynthesis of peptidoglycan

- Peptidoglycan is the major component of bacterial cell wall.



SPOILAGE

- Raw meat is subjected to change by its **own enzymes** & by **microbial action** & its **fat may be oxidized chemically.**

a. Factors that influence the invasion include:-

a. The load of gut of the animal:- more the load, greater the invasion of tissues.

b. The physiological condition of the animal immediately before slaughter:- if the animal is excited, feverish bacteria is more likely to be enter the tissues.

c. The method of killing & bleeding:- the better sanitary the bleeding, better would be the keeping quality of meat.

d. The rate of cooling:- rapid cooling will reduce the rate of invasion of tissues

GENERAL TYPES OF SPOILAGE OF MEAT

SPOILAGE UNDER AEROBIC CONDITIONS

1. **Surface slime-**
   - which may be caused by species *Pseudomonas, Leuconostoc, Bacillus, Alkaligenes, Micrococcus* etc.
   - Temperature & availability of moisture, influence the kind of organisms causing surface slime.
2. **Changes in color of meat pigments-**
   - The production of oxidizing agents causes change in red color of meat to shades of green, brown & gray, by bacteria species of *Lactobacillus*
   - Red color of meat called as "sfoom."
   - Leuconostoc causes greening of sausages.
3. **Changes in fats-**
   - The oxidation of unsaturated fats in meats takes place chemically in air & may be catalyzed by light & copper.
   - Lipolytic bacteria may cause lipolysis off flavor due to aldehyde & acids.
   - Lipolytic species viz., *Pseudomonas & Achromobacter*

IMPORTANT ISOLATED MICRO-ORGANISMS FROM MEAT

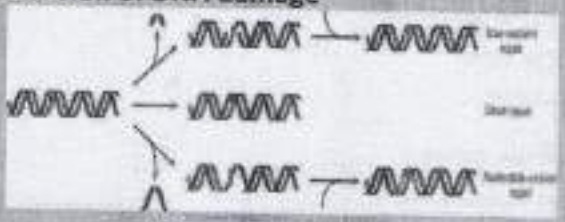
PRODUCT	MICRO-ORGANISMS ISOLATED
FRESH & REFRIGERATED MEAT	BACTERIA:- *Pseudomonas, Aeromonas, Micrococcus,* & *Alcaligenes*
	MOLDS:- *Cladosporium, Geotrichum,* & *Mucor*
	YEASTS:- *Candida, Torulopsis,* & *Rhodotorula*
PROCESSED & CURED MEATS	BACTERIA:- *Lactobacillus & other lactic acid bacteria, Bacillus, Micrococcus, & Staphylococcus*
	MOLDS:- *Penicillium, Aspergillus, Rhizopus*
	YEASTS:- *Candida, Torula, Torulopsis*

DNA Repair

DNA repair can be grouped into two major functional categories:

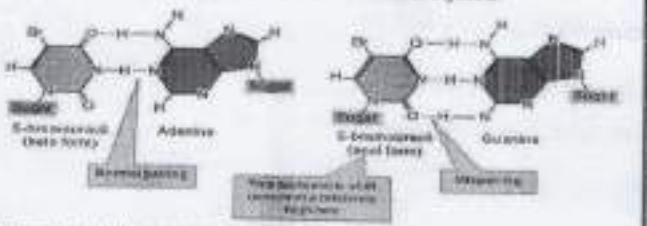
A) Direct Damage reversal

B) Excision of DNA damage



Base analogue incorporation

- Base analogues become incorporated into daughter strands during DNA replication
  - For example, 5-bromouracil is a thymine analogue
    - It can be incorporated into DNA instead of thymine



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Point mutations

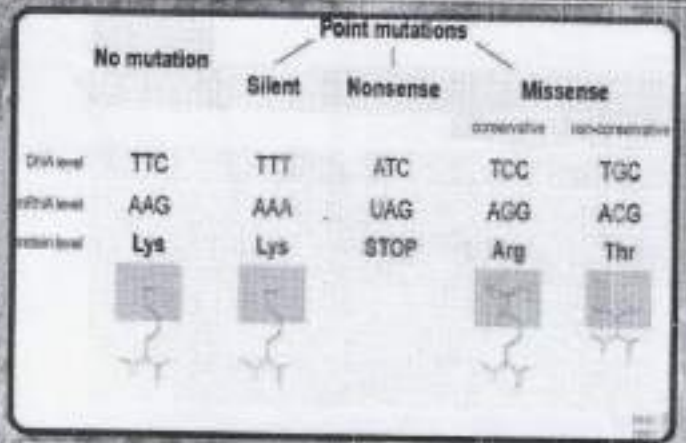
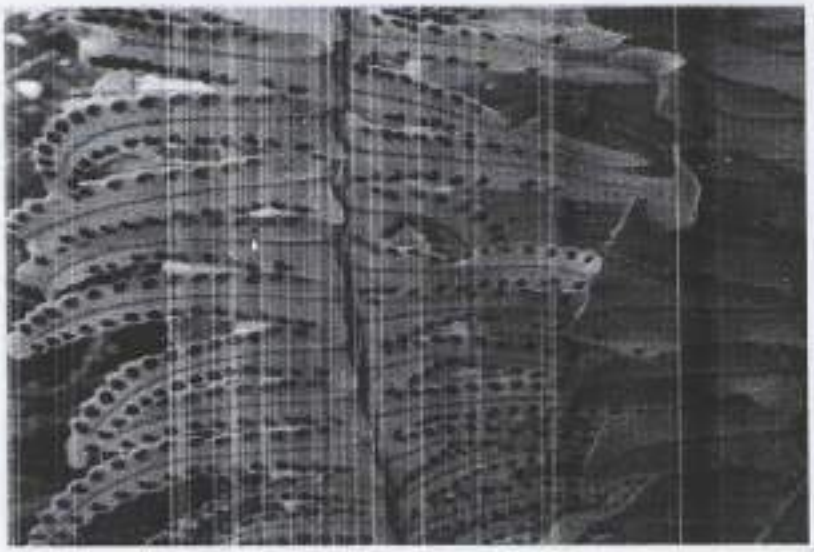


Illustration of three types of point mutations

NEPROLEPIS



INTRODUCTION

- Nepros-Kidney, lepis-Scale like
- Evergreen,terrestrial ,sporophytic,can be differentiated into rhizome,roots and leaves.
- About 30 species distributed in tropics of the world.
- Shows alternation of generation
- Morphology-adventitious roots on rhizoms and stolon
- Small,fibrous,branched and persistent root hairs
- Short,erect,thick cylindrical,stem-caudex
- Large,pinnately compound,spirally arranged ,basal part without leaflets (stipe), upper part with leaflets(frond).
- Central axis of frond is Rachis
- Sessile,auriculate,lanceolate with acute apex leaflet about 6-8 cm length, and 2-3 cm width.

Fertilization:

- Water is essential for fertilization. After the release of antherozoids from antheridium, they swim in a thin film of water present on the surface of the prothallus.
- They are attracted towards the neck of archegonia by chemicals oozing out of the neck.
- Thus the antherozoids are directed towards the egg. Even though many antherozoids enter the neck only one fuses with the egg and forms zygote.

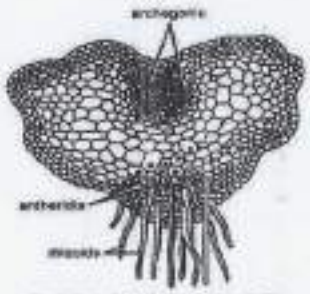


Fig. 7. Nephrolepis. Heart shaped prothallus.

Alternation of generation

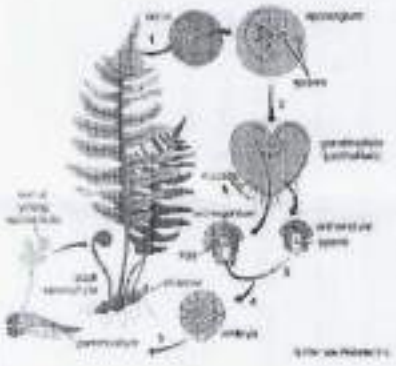


Fig. Life Cycle - Nephrolepis

THANK YOU

Use of ICT in the department of Economics

Google Classroom

Google classroom method is used by the faculty. Students join this classroom. Hand written Study material, Power Point presentations, video clips, the interviews of the economists on You tube are shared through Google classroom. The classwork is given to the students in the Google classroom Students also share their work in the classroom.

Link Classroom: https://classroom.google.com/c/MTE10TUyNDA3NDk?cjc=36lndgh

Google Quiz: Google Quiz used by faculty for internal assessment.

Link Google Quiz: https://forms.gle/4gMRgz3HYvkketpP8

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ICT ENABLED TEACHING

Google Classroom Links:

https://classroom.google.com/c/NTgzNDQyMDQxNzQ3?cjc=wjnaqkw - TYBA

https://classroom.google.com/c/NTA5MjE0OTE2MzU3?cjc=r257dbt - SYBA

https://classroom.google.com/c/NTA3NTg1OTU5ODMx?cjc=6fn5gqn - FYBCom Add. English

https://classroom.google.com/c/NTA0MTY0NzcyMDg5?cjc=dramcjfFYBCom Com. English

https://classroom.google.com/c/NTY3NzIwNTcyMDkz?cjc=ei2rzzs FYBA- Comp. English

Departmental Website –
https://sites.google.com/view/deptofenglishindrayanimah/result

Personal Profile- https://sites.google.com/view/diptipethe/home

PPTs

Zoom Meeting

Google Meet

You Tube... tools are used

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डॉ. मधुकर देशमुख द्वारा उपयोग में लाये गए आई सी टी टूल्स

1. काव्य के लक्षण (KAVYA KE LAKSHAN) परिभाषा, नेट, सेट तथा जेआरएफ के लिए उपयोगी ...

   https://youtu.be/urYc3CxhxsE?si=DGsVo4IXMG3vybOW

2. काव्यशास्त्र (साहित्य का स्वरुप एवं परिभाषा)

   https://youtu.be/zGjT68tVX-o?si=HNGH-VmdR22oX-Ay

3. काव्य का स्वरुप एवं परिभाषा

   https://youtu.be/MQeP-weDvjY?si=V4MHHWJYfmXWnTep

4. शास्त्र का स्वरुप एवं परिभाषा

   https://youtu.be/C6cRkZMgNzo?si=MJchoxoXqpJIQP2Y

5. रस का स्वरुप एवं परिभाषा

   https://youtu.be/Lym2uHFzeAA?si=MKmOEjEgqFGT7llt

6. कारक स्वरुप एवं परिभाषा

   https://youtu.be/6NqyJC5dCNs?si=r0mXsH-2iI_4HOhI

7. मानवतावादी कवी 'नीरज'

   https://youtu.be/6NqyJC5dCNs?si=r0mXsH-2iI_4HOhI

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प्राचार्य
इंद्रायणी महाविद्यालय
तळेगाव-दाभाडे, पुणे-४१०५०७

1.1(1.1.1 Use of ICT 2022-2023)

Google Class Room, Google from as well as You Tube, PPT and Important Links are use in ICT tools.

जुने मराठी ग्रंथ – http://www.dli.ernet.in/
1. मराठी पुस्तके – www.esahity.com
2. मराठी साहित्य – http://antaraal.com/
3. मराठी साहित्य – http://www.chaprak.com/
4. मराठी साहित्य http://www.maanbindu.com/marathi
5. मराठी साहित्य, संस्कृती जोपासना – https://msblc.maharashtra.gov.in
6. मराठी साहित्य, ववि‍ध अभ्यासपूर्ण लेख – http://misalpav.com/
7. मराठी साहित्य, ववि‍ध अभ्यासपूर्ण लेख – wiki source - https://goo.gl/jzKkFw
8. मराठी साहित्य, ववि‍ध अभ्यासपूर्ण लेख – http://www.maayboli.com/
9. मराठी साहित्य, ववि‍ध अभ्यासपूर्ण लेख – http://aisiakshare.com/
10. मराठी साहित्य, ववि‍ध अभ्यासपूर्ण लेख – http://www.manogat.com/
11. वैविध्यपूर्ण माहिती – http://www.marathimati.com/
12. नाटक-चित्रपट परीक्षण, परिचय – http://www.pahawemanache.com
13. मराठीसहित २१ भाषांमध्ये, विविध विषयांवरची माहिती – http://mr.vikaspedia.in/InDG
14. मराठी परिभाषा कोश – http://marathibhasha.org/
15. मराठी विश्वकोश – https://marathivishwakosh.maharashtra.gov.in/

Efforts are made to educate students with new technology and developed ICT tools.

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