Date	Date
	•
(i) Lac-2:- it Synthesize Engyme B-galactos (B-galactoside) into gluose & god	cidase, which hydrolys lactors
(ii) Lac-y:- It synthesize permease which i membrane for β-galactoride Clark	ncreases permeability of all
(iii) Lac-a 3- it Synthesize Transacetylase.	•
note: There is Common promotes of operator	
	C.
Case (A) 3- Lactose is -nt in medium - will not bind R (i-gene) P O-gene Z	°-
M-RNA M-RNA	
action a harm	billy restrict of large of
actine repressor	ar individual of a solution
(Repressor + 0-9	zene - Switch off
» - ve regulation	
(ase (B) 3- Lactose is the in medius	n . T
RCi-gen) O-gen 2 y a	Aleca Att
repressor	T M-RNA
Permia Permia	M
(induer) active referenser B-galadosid	days
S and (1) and	
in active repression can not be	and with O-gene
[Lactose + repressor = switch on] =)	

	auro isildi.2					
Lac-openion	Toup-oberon					
-> Enducible operan	-> represible operon					
- Jan catabolica	- Jor angebolism					
- for carbohydrate metabolism	- for evential amino add					
> home 3-structural gene	-> 5-structural gene					
- does not show feedback	- Show feel back inhibition					
inhibition	of Water Thon					
3	J. Committee of the com					
3 Charact Jara	(1x05-1) 974V					
# DNA fingerprinting CONA pro	filing] o-					
O STALL TO A STALL OF THE STALL OF	STORE OF ALACE IN ALACE MATERIAL MATERI					
- Alle Jeffrey & frof bal ji singh = father of DNA Jingurprinting						
P						
-> DNA fingularinting is based on	édentification of unique seq. which are eft monzygotic twin.					
differ in a population to exa	eft monzygotic twin.					
Hilm with bright to the town	I truly at high and highest is it to					
- These unique sego are kla R	epitatine DNA.					
> repetative ONA form minor	reak during centrifugation and named as					
Ratellito ONIA.	- com their live blood (exceptions)					
a Asset	He DAVA					
miles of the	nico de de la constanción de l					
Sofellite	PNA					

Date	Date
Satellite DNA	
on the ba	
	supeats (why no.)
	emposition (A: Torich) as (G: Crich)
3 Length	af segment
	- must be unsuate it would be
	a Judich work to ask a
mini satellite	micoro satellite
V	1
UNTR (1-20 Kb)	STR [1-66P] 6
- 1° 0	
Variation Sequence of DNA as	genetic variation in a population is
Kla DNA polymosphism.	the self of the souther will a self
ONA polymorphism for basis of DNA	linger Linting
- it is arise du to mutation.	J. J. Prigramy
- it is transfered in a population if	it does not affect reproductive ability c
of sexually suproducing onimal.	
	-
- The true DNA-Polymorphism is	mon than 0.01%
-> every tissue like Blood Cexcept: A	(BC), hair follich, saline, kom, skin
sperm, over etc.	6
2 A	0 0
> DNA fingerprinting consider of follow	ing steps or
1 Isolation of ONA	2
3 Pauton of ONA frament with	the help of restriction and oncellose
(3) Separation of ONA frames	Segment by gel electrophoresis
1 transfer Colotting) of ONA brage	unt an synthetic memberson like
nitro-cellulose or nylon	4
(Hybridisation with nadio &	Babelled UNTICENDED

Spiral

Date	Date
(E) Auto radiography	
Note: - sensitivity of DNA &	in Singerprinting can be increased by PCR.
→ DNA polymorphism is also fo	um bases of Human genome Frapping.
# Usa:-	
(D Forensic Science	
01 01 101 4	
a determining population and	genetic divercities
- What was a second of the second	

	Date	60
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	Charles and C	6
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	infector of incestat in	6
istimul ituse has wither	of Commercian in	6
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		-5
	Spiral	-0
		THE RESERVE

6	Date
3	inte: Microbes in Human Wellane
9	7
5	# Statin: it is blood cholestral lowering agent
3	- it is competetive inhibitor
VV	obtained from filementous Yeart (cukaryote) i.e. morasus proprieus
9	# Cyclosponin-A:- it is Immuno suppression agent - obtained from Trichoderma Polysponum (imperfect fungi)
-	
3	note: Trichoderma is:
0	O Ere living Jungi
0	@ fregent in noot ecosystem
0	@ effective against several plant pathogen (based spectrum festide)
0	(Bio control agent)
0	H Streptokinase :- it is blood clot buster.
0	- obtained from strepto coccus bacteria
-	# Curd:-
-	- it is hartille degraded milk krotien.
-	- it is farmed by LAB (group of microbs which conver my into care
4	John acid, Lactic acid.
83	I card is many metritions than next milk dose to the presence
0	of yanno cobalmin. (Vitherz)
-	
5	- it increases resistance against disease causing microbes in me
0	stomach
2	
2	
-	

	6
Date	6
* SAMONA	-6
	-
# Cheese :-	2
-> it is partially degraded will lat and brotten	6
-> it is partially degraded milk fat and protten -> the cheeze is characterized by it: 3-	C
O flavour	6
@ texture	6
3 taste	6
	6
# Types :-	6
	6
O Swiss chege! The lary hole in swiss cheer is due to con	6
O Swise cheese! The large hale in swise cheese is due to Con sit is prepared with the help of bacterium propionibacterium shermanis	-
the state of the s	-
(D) () () () () () () () () ()	2
@ Roquefort chees: - prepared by penicilium requefortis Carcometium Jung	m)c
DI Taldi C Taliford Paile in Carthe Tradi	-
Toddy: Touditional drink in South India > it is prepared from fermanted Sap of Palm, by the activity of	
Socihro my as Cerevisal (yeast)	-
The Charles the start of the st	6
# Beer and wine: " it is natural alcoholic benurage farmed by	9
Sacchronyces Ceremisae	6
and it are the west with the land is to be	6
(ristly). Simpled Sances (s	6
	2
# Antibiotic:	2
- it is prolife for Human being and against life for disease cause	2 g
microbes	2
- it is produced in fermenter	2
	-8
e	-2-

D-4-								
Date								

Antibiosis is example of ammenseliem (0,-interaction)

This antibiotic i.e. femilien was discovered by Alexander Hemming
by penicibium notatum during his experiment on & bacteria

Aphyloco staphylococcus: - full potency to penicikin was provided by Florey and chain -) 15 in 1945, fleming, Horrey and Chain got the noble prize of medicine. Libase -Pectinase -> cetric and 0 Actic acid -0 Butyric acid > + Sewage