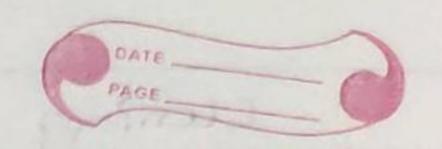
## 2018113012 KUSHAGIRA AGARWAL



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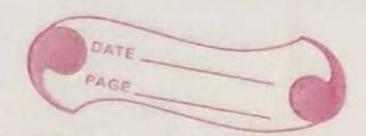
## Assignment -2

- Bal II -> A GATCT
  - i) NO, the two enzymes will not result in the same number of forgments in a rondom DNA seq. I the Difference of the probability the season is the Difference on the Bomers. For Bank I to recognize a site "GGATCO" must be present while for Bal II "AGATCO" must be present. This Difference results of recognition sites (irrespective of the fact that the shorty ords are some) results in the difference of the sact
  - see the 2 can be used to cut plasmid vectors I DNA of intercest interchangeably with out the need of an adapter/Unker.

Or example, let's say seer DNA of interest has a sectorict se cognition site for Born HI with Born HI with Born HI with Born HI while a sur plasmid only has a secognition site for Born HI. In such a case, the general workflow is to cut our DNA of interest wing some other RE I then ligate it with an adaptor/ Linker. But considering some sticky ends for Ball I born HI, we can instead cut our DNA of interest wang Bal II I disectly ligate with the plasmid to from the secombinant DNA.

(82) Advantage/Disadv. of cloning us PCR.

	DATE		
		PCE	
DAILO	Me DNA manipulation	aly amplification is possible	
		(sufficient only for sequencing)	
11) On	ce we have a good	Polymorases have soos vaice po	
	a pooduct, the every	incosporating wrong bases of	
	too plasmid seplic-	wear the begins (or contents and)	
PCR en	nort bower than	an ingent 12 Jada 19	
		decore si AMA 10	
DI NA	least a mooogram	h ranagram of DNA is anough you per	
2011	A is sequised	Joanna	
17) Nº	ne taken is 2-4	Thre taken is nowin un	
	ays		
	sour hereive as	Automated Lite available	
		at the parties with the last	
u) Ab	conce of suf precise on limit the process	No need of RE	
RE	an limit the process	as le bus set pur session	
	0000	30 place of the state of the st	
_ (23)			
- 6	Primer > These are (15-20 bp) shoot fragments		
- 342/	which can attach to own DNA region of interest		
- Lexis	They are single stronded and complementary		
-	our DNA strond. Iba Polymerases need a		
	stauting point to begin extension by adding		
- Agranda	antps. Pameres act as these start points.		
	At the Horizon	CALL I LON ONE	
(P)	Tag polymerase > Tag polymerase is athermostable		
	DNA polymorase I nomed after the omaphillic eubacterial		
	microcorganism. (Thermus Aquaticus) toon which it was		
	originally isolated by (Chien et.al)		
-	It extends DNA abords complementary abord to		
-	owx DNA strond of interest by steaching from the		
	primer and adding dNTPs. He thornostability is useful as PCR is performed at high temperatures.		
-	Busy and any amperial as		



dantes & at Dideory nucleotides are useful in fice sequencing as they lack the ability to extend upon. They result in termination of DMA extension by as they lack hydroxyl groups at both 2' and 3' positions. They are marked with fluores cent markers. These are useful as on extension of multiple copies of DMA of interest en termination will take place at different lengths (due to addition of these dantes instead of antes by Tag polymerase). Then we can use get also atophosesis to separate the diff lengths and scan using a lawar to determine the Nucleotids.

By) Unknown DNA sequence is cloned in the vector. How nowed you design primers to sequence the incort.

soft) fixest we use appropriate RE to extract our DNA of interiest and then

SOLT for the unknow DNA sequence we can chase a portmer in 3 ways.

1) If the DNA of mercest is from a species than abound for close relatives of the species may help us decide the primer as inter-species diversity for closely related species is vory less. Fx: To sequence EN gone of SARS-GOV-3, we could use the primer used for N gone of SARS-GOV-3 SARS-GOV or MERS-GOV.

DIVA of interest and that use these adaptors segions as pormous for sequencing.

pp?) took if RAY toonscroibed mRNA is possiont for the DNA (gove on cooling) then the poly-A toul con also be used as the polymor bihalog segion.

