Immunology Cheat Sheet by Carsonmccall via cheatography.com/209662/cs/45145/

Cheatography

IMPORTANT REMINDERS					
Serum	Blood W/O cells or Fibrinogen (clotting factor)				
Plasma	Blood W Fibrinogen and water but ~ still NO cells				
Buffy Coat	Separated blood layer containing WBCs and Platelets				
MHC	Major Histocompatibility Complex				
TCR	T-Cell receptor				
BCR	B-Cell receptor				

PLASMA ~ in EDTA tube (purple top)



- Anti-Coagulants are needed for purifying

- Can be prepared as soon as its centri-
- fuged
- Fibrinogen = present
- Buffy coat can contaminate the liquidated fraction
- Composed of ions that is *representative of* the circulating blood!
- Less stable



By Carsonmccall

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- No Anticoagulants added
- 30 min delay for clot formation
- Fibrinogen absent
- Cleaner sample (lacks depleted cells and cell remnants)

- Contains antibodies, antigens, electrolytes and medications, hormones and microorganisms

- The study of serology involves the study of the serum as the GS

ANTIBODY CLASSES					
CLASS	DESCRI- PTION	NOTES			
lgG	Neutra-	mnemonic >			
	lizing Ab	"grandmas memory"			
	!Made late	r in immune response!			
	Primary Ab in memory response				
	Found in bl	ood			
	Small size easily)	(able to pass barriers			
	□□Highes rum/Blood	st in conc. in Colost-			

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ANTI	BODY CLASSES (c	ont)				
	Longer half-life than IgM					
	Bind phagocytes via Fc region	Opsonin				
lgM	□ □ First Ig in primary response	mnemonic > "/ <i>want MINE first</i> "				
	Short half-life					
	10 binding sites	> better at aggregating than IgG				
		> Neutralizing Ab				
	Large size	> can't penetrate tissue				
		> confined to blood/lymph				
	Activates Complim	ent System				
	□□ High conc. ==	recent primary exposure				
	No Fc receptor for IgM on phagocytes	<i>CANNOT</i> act as an opsonin				
lgA	Important for mucosal protec- tion!	mnemonic > " <i>Alpacas are</i> <i>snotty</i> "				
	Dimeric form	> has a secretory piece				
		~ prevents degradation by Proteases				

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		~□□ secreted in MILK! (NOT ABSORBED	4. Mast ce vasoactive	ells > □□release e amines	histamine &
		THRU GUT)	Neonatal Ir	nmunity	
	□□ Prevents epi bacti	thelial adherence of	Source of	COLOSTRUM Dam's serum	MILK Mammary
	Helps protect neonate	> GIT	Ab Ig	IgG (high	gland IgA (much
	mucosa in:	> respiratory	Compos- ition	conc.)	smaller conc.)
		> UG tract	**Prod.		
	Found in:	> tears, saliva, and bile			
lgE	□□ !Important in adaptive resp. to <i>parasitic</i> <i>worms!</i>	mnemonic > ' <i>Ew</i> <i>worms and</i> <i>allergies</i> "			
	□ □ Mediates Type-1 HS	> Anaphylactic Shock			
	Mechanism::	1. B-cells > make IgE to Ag			
		2. IgE > binds <i>Mast cells</i> on their Fc region			
		Once exposed to Ag again:			
		3. IgE > binds <i>Mast cells</i>			
		~ □ □ Activates			

By Carooninoo

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