





Tips on Challenges You Will Face

- Vast new vocabulary
- "Rules" are built on experimental observation
 - Every rule has an exception
- The "system" is a network of many players
 - Zoom in to study a player, but remember...
 - Zoom back out to see how it fits in big picture
 - The elegance is in the orchestra, not one player
- Understanding is evolving
 - New concepts and new players added every year























• Bridge:betweenwthepinnatebandr. Inc.































Innate vs. Adaptive Immunity	
Innate	Adaptive
Immediate response	5-10 days for clonal expansion
Broad classes of molecules	Highly specific for a single structure
Microbial origin	Potentially any protein, lipid, or carbo
None	Long-lived
Same response as previously	Rapid response tailored to pathogen
	e vs. Adaptiv Innate Immediate response Broad classes of molecules Microbial origin None Same response as previously











