## RADIOLAB Podcast "Shrink" Assignment

Name:		Megavirus
Listen to the <b>Radiolab Podcast "Shrink"</b> (http://www.radiolab.grade will be based on how complete and correct your answers and correct your answe		tions below. Your
1. Based on what you have learned in class, and what David differences & similarities between cells and viruses?	d Quammen and the Radiolab discuss, what are	e some of the
<u>CELLS</u>	<u>VIRUSES</u>	
2. Timothy Robotham collected a water sample from a hosp he find, that he thought was unusual? Why did it catch his a		
3. After Robotham's lab gets shut down, he gives samples or researcher think that this microbe looks like? What led him		at does this
4. How does the French microbiologist eventually grow thi	is microbe? What did he rename the microbe?	
5. What can this virus do that other viruses don't? In what description.)	ways is it different from other viruses? (Please	give a detailed

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6. The researchers looked in another hospital cooling tower and found another giant virus. What did they name it? How is it different from Mimivirus?
8. Then researchers continued looking for these giant viruses around the world. What are the other giant viruses named, and how are they different that the ones found previously?
9. Where did these giant viruses come from? (i.e. What do scientists think they evolve from?)
10. What is Robert's Krulwich's "problem" with parasites?
11. Summarize Carl Zimmer's "Mansion Metaphor" of how a living cell might become an acellular parasite.
12. Most viruses have much less genetic material than cells do. How would a cell genetically "shrink" into a virus?
13. What does Robert mean by "race to the bottom"?
14. How have humans genetically "shrunk"?

This assignment is from the <u>Virtual Biology Classroom</u> on the free science education website <u>Science Prof Online</u> (ScienceProfOnline.com). Visit the website to find more science education resources such as lecture PowerPoints, practice test questions, review questions, science photos, videos and assignments.