Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Topic #6: Personalized Medicine: Precision versus Privacy

Pre-discussion questions. Answer briefly. Use only the space provided. Do not exceed one page.

1. What is "omics"? How would you describe it to one of your grandparents? (1-2 sentences)
2. Explain (with scientific rigor) one "ome" other than "genome" that was monitored in the Personal Omics paper (as circled below). What exactly is it measuring about the composition of cells? What analytical technique is used to make these measurements? (2-3 sentences)

 proteome transcriptome metabolome
3. For one subject (as circled below) explain a specific case or piece of data related to that topic from the paper. What adjustment in lifestyle, drug treatment, or additional tests did the patient undertake to further evaluate or mitigate a perceived problem?

 infection disease-risk genetic variant type-2 diabetes
4. If you could sign up for iPOP monitoring of your own health, would you? Would it affect your decision if the data would be made publicly available? Why / why not? (1-2 sentences)