

Biology 485 / July 22, 2013

In-class discussion questions on Ojo et al. 2010

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Fig 1a-e: Jennifer Barber, Daniel Saiku, Courtnee Clough, Graham Stockdale

Question: What is the key take-away from this series of figures?

Fig 1a-e: Ashlyn Giddings, Kristi Dela Cruz, Jen Arthur

Question: Describe the interaction between gatekeeper residue size and BKIs.

Table 2: Tyler Bradshaw, Emily Boevers, Richard Nguyen, Ripp Cristel

Questions: What might you be able to hypothesize about the structure of the active site in relation to the gatekeeper amino acid? If you had to change two other amino acids than the one shown, which would you choose and why?

Figure 2: Clementine Foucher, Emoniel Isakharov, Chad Sumulong

Questions: Explain what is being shown in each picture in part (a). How is this related to parts (b) and (c)?

Figure 2: Avrey Novak, Chris Franz, Margaret Lanphere, Lesley Hammond

Question: What is the difference between part (b) and (c)? Why is this information relevant to drug discovery?

Figure 3: Romaisa Asif, Kaiser Valshon, Michael Lam

Question: How does the Western blot shown in part (a) relate to the graphs shown in parts (b) and (c)?