In-class exercise for Baniecki et al. (2007)

Group 6: Courtnee Clough, Daniel Saiku, Graham Stockdale, Kaiser Valshon

- Richard Nguyen asks: "In the introduction, they list the four classes of antimalarial compounds: quinine or aminoquinolines, antifolate compounds, arte- misinin derivatives, and hydroxynapthoquinone atovaquone. They say, "This lack of structural diversity means that previously developed therapeutic alternatives, really modifications of the same basic molecular templates, might prime new drug candidates for the rapid emergence of resistance." What do they mean by "lack of structural diversity" in these chemical compounds?"

Group 5: Romaisa Asif, Lesley Hammond, Emoniel Isakharov, Chad Sumulong

- Kristi Dela Cruz asks: "What were the three different methods used for quantifying parasite growth and how did they differ in terms of method and what was measured? What were the advantages of using the less traditional, trusted and more recent methods?"

Group 4: Jen Arthur, Ashlyn Giddings, Margaret Lanphere, Julia Olson

- Chris Choe asks: "Within the context of the paper, which removal from the methods section would have changed the discussion section the least? Removal of the positive control, or removal of the negative control?"

Group 3: Emily Boevers, Kristi Dela Cruz, Michael Lam, Avrey Novak

- Chad Sumulong asks: "What was the point of using different parasite phenotypes (3D7, HB3, DD2) to gain results? Would it have been sufficient to use a highly resistant strain (I think DD2 was found to be resistant to chloroquine, melloquine, and pyromethamine) to get the best results for the new hits and more possible drugs?"

Group 2: Jennifer Barber, Chris Choe, Clementine Foucher, Tracy Ngo

- Ashlyn Giddings asks: "What evidence was presented that the DAPI staining technique was effective in HTS? How would you present this data if you were writing the paper?"

Group 1: Tyler Bradshaw, Ripp Cristel, Chris Franz, Richard Nguyen

- Courtnee Clough asks: "The paper mentions that "whole-organism assays offer possibilities not available to target-based assays." What are the pros and cons that the authors list with such assays and do you agree with their list?"