

Topic	Description	Slide Numbers	Notes
Title Slide	N/A	1	Feel free to change, but please leave attribution to ASPB and module authors
Overview of main idea	Provides context for the module	2	Can be used as a discussion prompt for the whole class or for small groups, or instructor can read aloud and provide context.
Genetics Review	A review of the basic concepts of alleles, dominant/recessive inheritance, and genotype vs phenotype	3-6	
Genetics Review Clicker Questions	Questions to cover the basics of genetics. May also be used as quiz or exam questions	7-14	Can add or remove questions based on time available and need to review.
Overview of main idea	Transition slide to move from general genetics into genetics of farming and agriculture	15	Nina Federoff: https://en.wikipedia.org/wiki/Nina_Fedoroff
Student thoughts on genetics in agriculture	A prompt for students to think about artificial selection in agriculture	16-17	Can change "answer" slide (17) to suit the needs of your class
Student thoughts on genetics in agriculture	A prompt for students to think about	18	Could also be used as a take-home pre-lecture assignment
Different types of modifications in current crop species	Detailed overview of the types of modifications that are available in crop plants as well as reasons that these modifications would be necessary	19-26	Choose either slides 19-26 OR slides 27-30, depending on the level of detail you want to cover for this topic
	Brief overview of the types of modifications that are available in crop plants as well as reasons that these modifications would be necessary	27-30	
Connecting genetic modifications to a specific crop	Students will think through why and how the characteristics of a certain crop species could be changed	31-35	Use slides 31-34 as a small group or whole class discussion activity; slide 35 is the answers as needed for the next set of slides
Genetic Inheritance	A short review of alleles, Punnett squares and inheritance	36-37	Checking that students recall principles of inheritance before moving on to agriculturally specific genetics tools
History and Methods of Genetic Modification Tools	Detailed overview of history of artificial selection in crop plants and modern genetic tools used in agriculture	38-45	Choose either slides 38-45 OR slides 46-49, depending on the level of detail you want to cover for this topic
	Brief overview of history of artificial selection in crop plants and modern genetic tools used in agriculture	46-49	
Transition to the Activity: Here Today, Gone Tomato	Discussion prompt that transitions to the activity	50	Can be discussed in class or as an assignment before playing the game
The Activity: Here Today, Gone Tomato	An class activity where students work individually or in groups to modify a popular crop species and compete against each other to grow and sell as many crops as possible to "win" the season.	Here Today, Gone Tomato Activity slide deck	