

TEACHER RESOURCES AND LINKS

<https://go.edc.org/epm-teacher-resources/>



Chapter 1: What's the Right Medicine?

- Article: ["Ten Tips for Facilitating Classroom Discussions on Sensitive Topics"](#)
- Video: [Personalized Medicine: The Science Behind Genomics](#) (1:52)
- Video: [Simple Genetic Test Shows Promise for Better Outcomes in Heart Stent Patients](#) (2:05)
- Form: [Consent Form](#)

Chapter 2: Is My Sense of Taste Controlled by My Genes?

- Article: ["Genetic Taste Markers and Food Preferences"](#)
- Video: [How Do We Taste?](#) (5:35)
- Video: [What Is PCR?](#) (2:49)
- Article: ["Mamas, Don't Let Your Babies Grow Up to Be Broccoli-Haters"](#)
- Video: [Umami: The 5th Taste, Explained | Food52 + Ajinomoto](#) (2:28) (optional)
- Article: [Genetic Taste Markers and Food Preferences](#)
- Video: [What Is a Gene?](#)
- Article: ["A De-escalation Exercise for Upset Students"](#) (optional)
- Article: ["Random Sampling Creates a Representative Sample of the Target Population When Sample Size is Large Enough"](#) (optional)

Chapter 3: Exploring Our DNA

- Video: [How Does Your Body Process Medicine?](#) (4:12)

Chapter 4: How Is DNA Sequenced, and What Can We Learn?

- Video: [The Sanger Method of DNA Sequencing](#) (2:50)
- Article: ["How Your Genes Influence What Medicines Are Right for You"](#)
- Website: [NCBI-BLAST](#)
- Video: [BLAST tutorial](#) (1:58)
- Video: [Protein Structure and Folding](#) (7:45) or [Protein Structure and Organization](#) (12:00)
- Website: [SNPedia](#)

- Article: [“Genetic, Functional, and Phenotypic Diversity in TAS2R38-Mediated Bitter Taste Perception”](#) (optional)
- Article: [“Exploring the Impact of Single-Nucleotide Polymorphisms on Translation”](#)

Chapter 5: Restriction Enzyme Digestion of TAS2R38 PCR Products

- Video: [Restriction Enzymes in DNA Testing](#) (1:43)

Chapter 6: Gel Electrophoresis and Genotyping

- Video: [What is Gel Electrophoresis?](#)
- Article: [“Genes Give Africans a Better Sense of Taste”](#)
- Video: [Making an Agarose Gel](#)
- Sequences: [Exons 4 and 5 of CYP2C19](#)
- Article: [“Why Can We Taste Bitter Flavors? Turns Out, It’s Still a Mystery”](#) (optional)
- LabXchange: [“How Does Taste Work?”](#) (optional)
- Website: [miniPCR](#) (optional)

Chapter 7: SNPs and Drug Metabolism

- Article: [“Privacy in Genomics”](#)

Appendix

- Video: [The Biology of Race in the Absence of Biological Races](#) (16:54)
- Video: [Is Race Genetic or Socially Constructed?](#) (6:10)
- Article: [“Why Race Is Not a Thing, According to Genetics”](#)
- Curriculum material: [“Is It In Our Genes: Race and Health”](#)
- Curriculum material: [“What Can DNA Tell Us About Race?”](#)