

Video Links for Personalized Medicine:

Class 1: Personalized Medicine and DNA Basics

JAX Personalized Medicine: <http://www.jax.org/video/index.php>

Collins Song: <http://www.youtube.com/watch?v=FMFoE2ZntRE>

DNA Replication: <http://www.youtube.com/watch?v=-mtLXpgjHL0&feature=related>

Simple DNA Repl: <http://www.youtube.com/watch?v=AGUuX4PGICc&feature=related>

DNA Transcription: <http://www.youtube.com/watch?v=5MfSYnItYvg>

mRNA Translation: <http://www.youtube.com/watch?v=8dsTvBaUMvw&feature=relmfu>

Origin of Genes: http://www.youtube.com/watch?v=qLnr_3J1IT8&feature=related

DOE/ORNL Chromosome Viewer:

http://www.ornl.gov/sci/techresources/Human_Genome/posters/chromosome/chromo01.shtml

Class 2: Gene Chips and DNA Sequencing

Kevin Davies – Book Synopses:

<http://www.youtube.com/watch?v=CgBYM9s9sSQ>

Leroy Hood – P4 Medicine:

<http://www.youtube.com/watch?v=tQxH-iiGxUU>

Gel Electrophoresis:

<http://www.youtube.com/watch?v=mN5IvS96wNk>

DNA Chip: <http://www.youtube.com/watch?v=ui4BOtwJEXs>

Sanger Method:

<http://www.youtube.com/watch?v=qr6A4eXZOWs>

<http://www.youtube.com/watch?v=vK-HIMaitnE>

Perkin Elmer Liquid Handling Robot:

<http://www.perkinelmer.com/Catalog/Category/ID/cellexplorer>

<http://www.perkinelmer.com/Catalog/Family/ID/Sciclone%20G3%20Liquid%20Handling%20Workstation>

Illumina Machine

<http://www.youtube.com/watch?v=HtuUFUnYB9Y&feature=related>

Jon Rothberg: <http://www.youtube.com/watch?v=PvrREizn4q0&feature=related>

Ion Torrent: <http://www.youtube.com/watch?v=yVf2295JqUg&feature=related>

Ion Torrent PM:

http://www.youtube.com/watch?v=CWUV6EB7eJ4&feature=results_main&playnext=1&list=PL1F0F7FA68E098257

Ion Torrent and the CDC:

<http://www.youtube.com/watch?v=l68WLdAKHGM&list=PL1F0F7FA68E098257>

Pacific Biosciences:

<http://www.youtube.com/watch?v=NHCJ8PtYCFc>

http://www.pacificbiosciences.com/aboutus/video-gallery?videoImage=pac_bio_lg.jpg

Oxford Nanopore:

<https://www.nanoporetech.com/technology/analytes-and-applications-dna-rna-proteins/dna-an-introduction-to-nanopore-sequencing>

David Demer on Hemolysin Pores:

<http://www.youtube.com/watch?v=y8P4Kr1wm6Q>

Oxford Nanopore Cut Sequencing Method:

<http://www.youtube.com/watch?v=UWcCbIRPzvs>

GridION and minION Systems:

<http://www.youtube.com/watch?v=xxkAH15WXXM>

DNAe Chip (00:30 to 9:30) [After 8 – DNAe Lab Freed Testing]

<http://vimeo.com/36950227>

IBM DNA Transistor

<http://www.youtube.com/watch?v=wvcIP3GySUY&list=PL3A6826FE2D5ED022>

Silicon Nanopore Two Layer Control:

<http://www.youtube.com/watch?v=BOXxa86jIRQ>

Elaine Mardis – Next Generation Sequencing

<http://www.youtube.com/watch?v=PMIF6zUeKko>

Protein Measurement – Oxford Nanopore:

<https://www.nanoporetech.com/technology/analytes-and-applications-dna-rna-proteins/protein-analysis->

Protein Measurement - Applied Proteomics

<http://www.youtube.com/watch?v=4enCwTPY68M>