**Topics to Learn for StanMack**

1. DNA structure Replication

<https://www.youtube.com/watch?v=8kK2zwjRV0M&list=PLyV_IM5FlqWptbdgbGNvgtbOrpm-7A1QY>

<https://www.khanacademy.org/science/biology/dna-as-the-genetic-material>

<https://www.khanacademy.org/science/biology/dna-as-the-genetic-material>

<https://www.youtube.com/watch?v=qoERVSWKmGk>

<https://www.youtube.com/watch?v=W4mYwsr9gGE>

<https://www.youtube.com/watch?v=q6PP-C4udkA>

1. Protein Synthesis in Eukaryotes (Exons/Introns)

<https://www.youtube.com/watch?v=h3b9ArupXZg>

<https://www.youtube.com/watch?v=-K8Y0ATkkAI>

<https://www.youtube.com/watch?v=itsb2SqR-R0>

1. Gene Regulation in Eukaryotes

<https://www.youtube.com/watch?v=3S3ZOmleAj0>

<https://www.youtube.com/watch?v=z1wtrlBT6yY>

1. Transposable Elements (P-Element)

<http://www.ibiology.org/ibioseminars/genetics-gene-regulation/susan-wessler-part-1.html>

<http://www.ibiology.org/ibioseminars/genetics-gene-regulation/susan-wessler-part-2.html>

<https://www.youtube.com/watch?v=vSgUaLDa0n8>

1. Plasmids and Gene Transfer

<https://www.youtube.com/watch?v=2JzZSoUxLsU>

<https://www.youtube.com/watch?v=jHOO3Op_EMU>

1. Maintaining Fly Stocks in the Lab

<https://www.youtube.com/watch?v=RAFBe1EfqGg>

<https://www.youtube.com/watch?v=qfZlafhFjec>

<https://www.youtube.com/watch?v=4e0VtTwswrI>

1. Food Making

<https://www.youtube.com/watch?v=Rph1xnB1_aw>

1. Fly Genetic Symbols, Chromosomes and Crossing

 [http://flybase.org/wiki/FlyBase:Nomenclature](http://flybase.org/wiki/FlyBase%3ANomenclature)

<https://www.youtube.com/watch?v=cL2ZTnOHp38>

<https://www.youtube.com/watch?v=DkiCFkB9cSo>

1. Fluorescent Microscopy and visualizing mutations

<https://www.youtube.com/channel/UC_kn_A791lsg_gXa98JRJUw?v=YLui4c2Fmhs>

<https://www.khanacademy.org/science/biology>

<https://www.brightstorm.com/science/biology/>

<http://www.ibiology.org/>

<http://www.bozemanscience.com/>

1. Molecular Techniques (PCR, TAQ)

<https://www.youtube.com/watch?v=yYIZgS-L5Sc>