



DNA BARCODING LAB

ISABELLA CARVAJAL, DELANEY PFEFFER, CAROLINE ZEISER

Honors Biology

Fall 2019

Dr. Matthew Connier

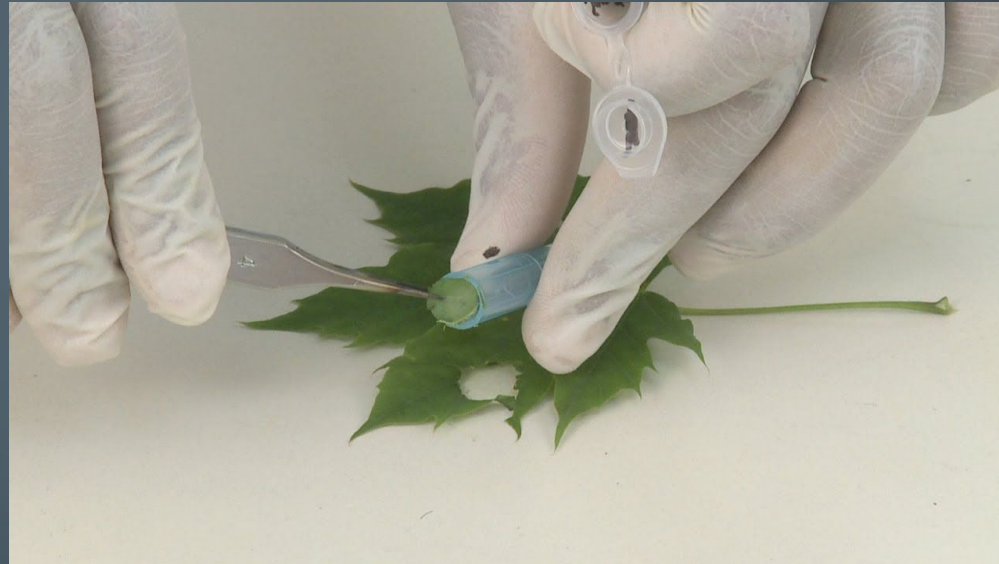
COLLECTION OF DNA SAMPLES

- NWACC Nature Area
- Collected specimen and tissue sample
- Placed in labeled bag



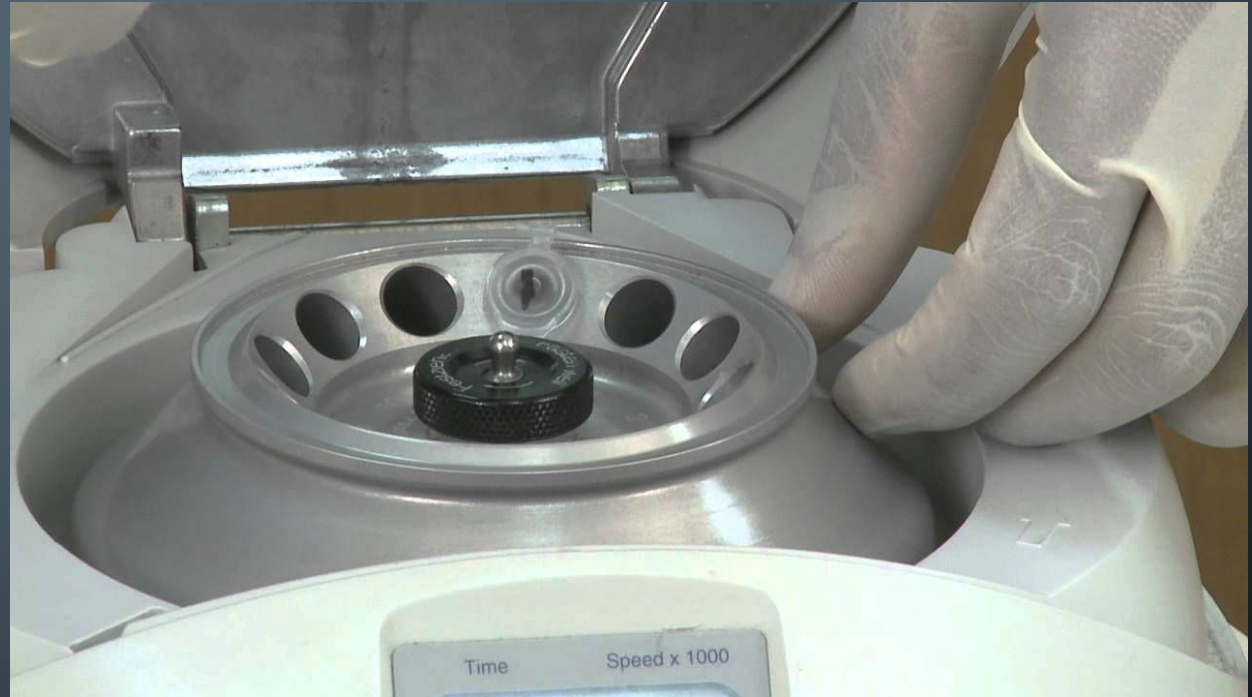
ISOLATING DNA

- Added sample and lysis solution
- Ground sample in the solution
- Repetitive process of centrifuging, transferring supernatant and vortexing
- Froze final product



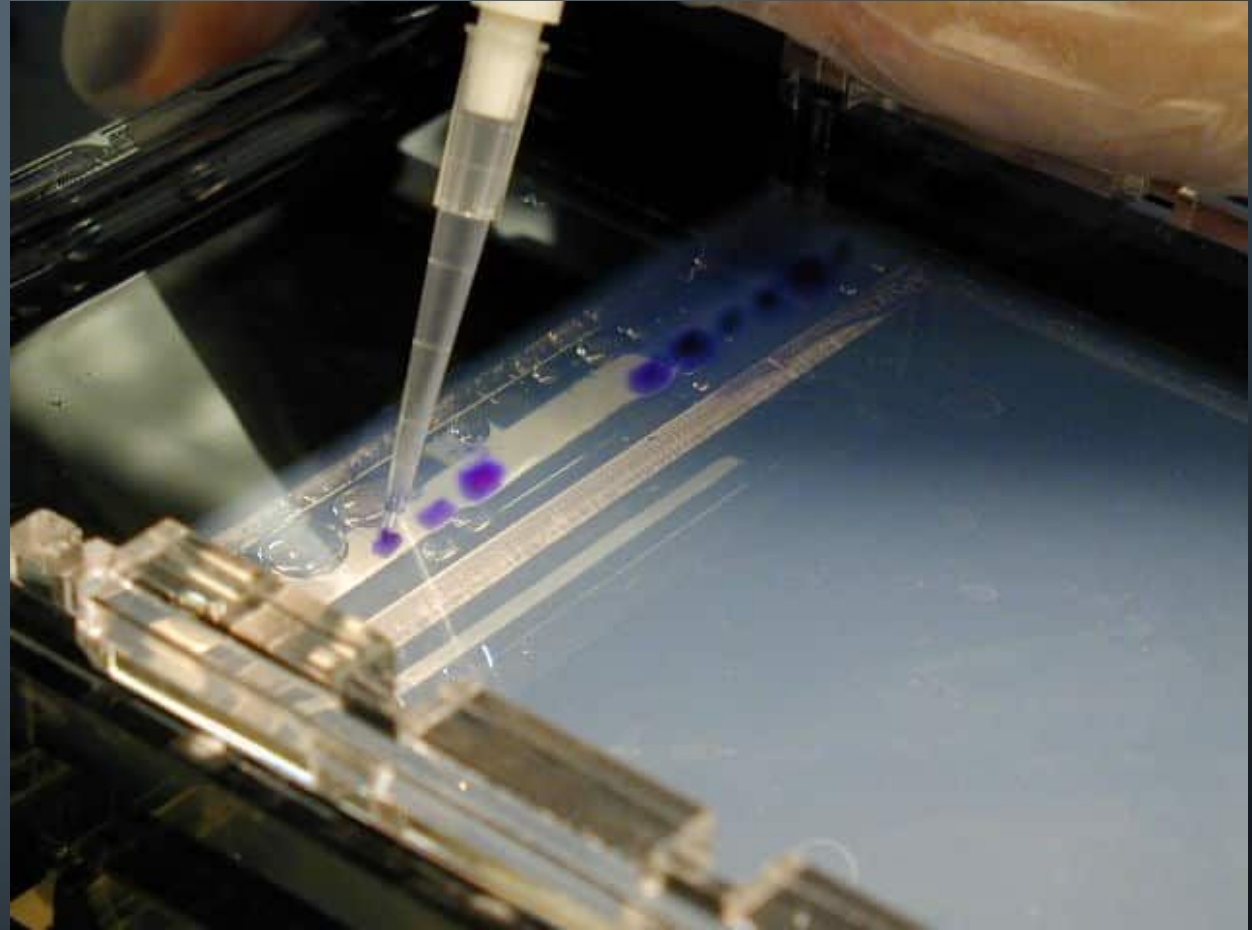
AMPLIFY DNA BY PCR

- Added primer mix and DNA
- Amplified in thermal cycler
- Froze final product



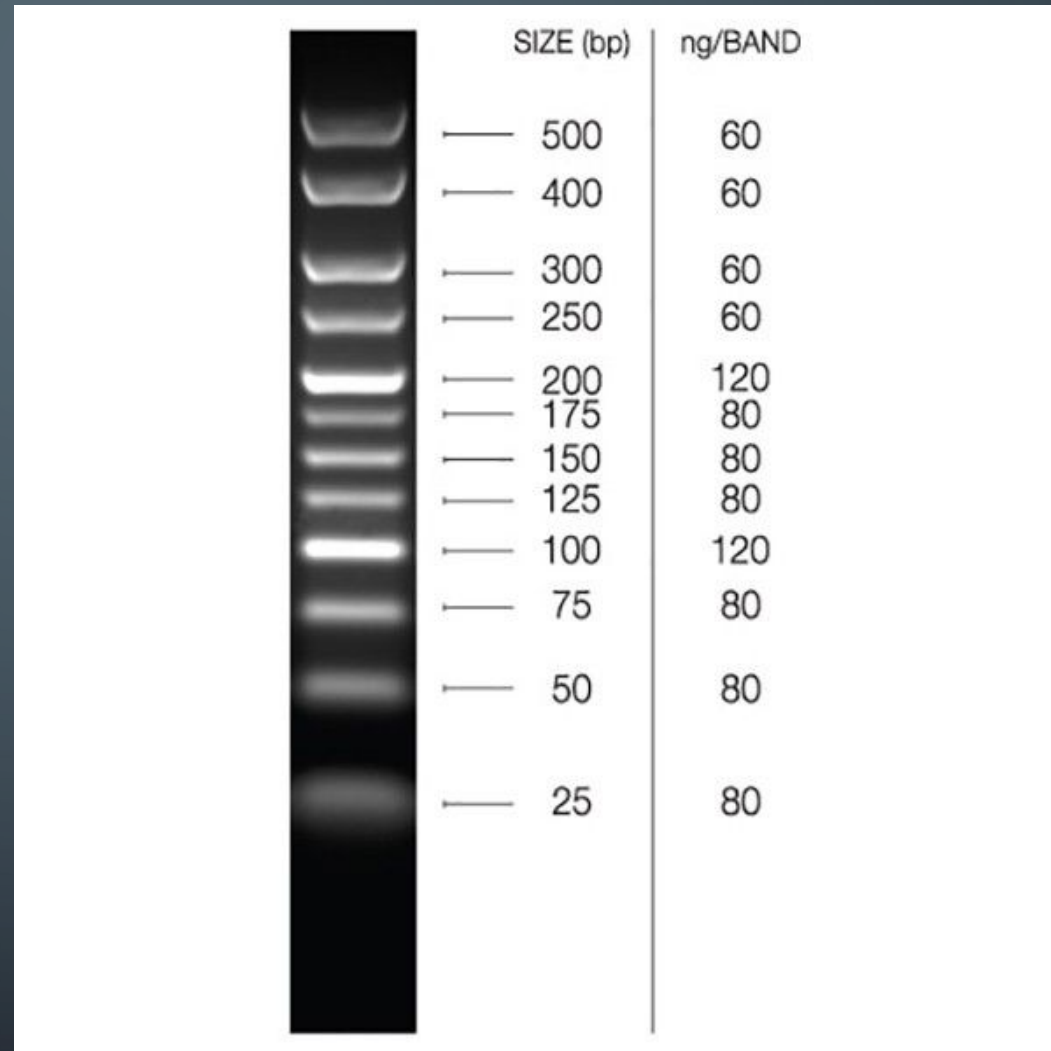
GEL ELECTROPHORESIS

- Poured gel
- Load gel
- Electrophorese



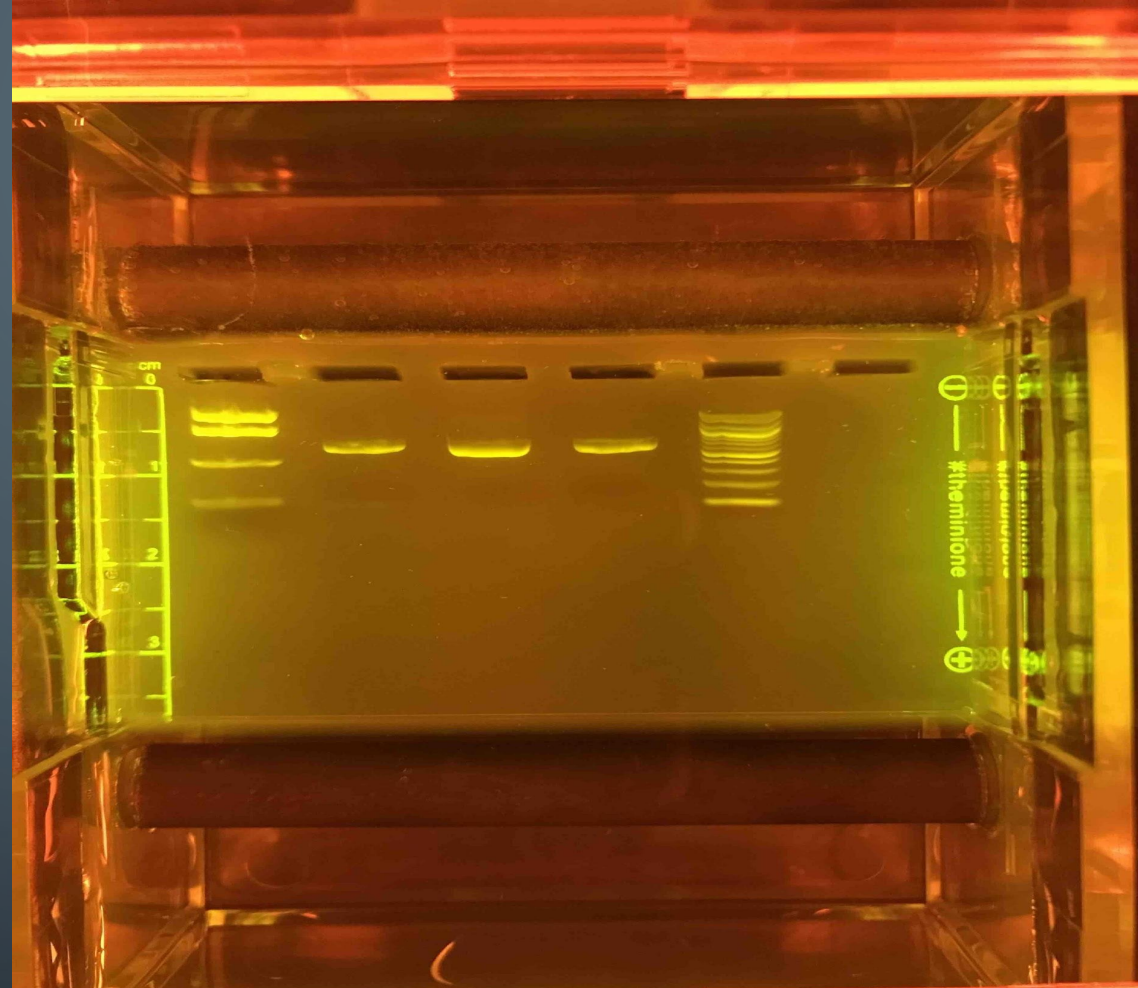
ANALYZE RESULTS

- Sequenced sample
- Evaluated using Molecular Markers



OUR RESULTS

- 20: CAROLINE
- 21: ISABELLA
- 22: DELANEY



1	2	3	4	5
PBR	20 (600)	21 (400)	22 (600)	BP LADD ER