

# Triple Transform Notebook

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**MONDAY, 5/22/2017**

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Introduce new members on techniques: how to make and run gels, how to make plates, intro to databases used, intro to programs used

**MONDAY, 5/29/2017**

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Each lab member choose a mutation in the structure of the micro compartment to work on.

**MONDAY, 6/5/2017**

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Gibson Transformation of mutants- unsuccessful

**MONDAY, 6/12/2017**

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Gibson Transformation of mutants- unsuccessful

**MONDAY, 6/19/2017**

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Gibson Transformation of mutants- unsuccessful. Design Gibson primers for Fusion Red LVA and low, mid, high expression EutS

**MONDAY, 6/26/2017**

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Gibson Transformation of mutants- unsuccessful. Transformed the Fusion Red LVA

**MONDAY, 7/3/2017**

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Creation of Low, Mid, High Eut S of 1C3, 1K3 and 4A5. Problems with colony growth on the plates, some show success while others did not.

**MONDAY, 7/10/2017**

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AzoPhe sample submitted and analyzed by mass spectrometer confirming the substance we have is actual AzoPhe.

**MONDAY, 7/17/2017**

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Visualization of fusion red Euts mid and Fusion red LVA with Eut s mid. Successful images of bacterial micro compartment formation.

**MONDAY, 7/24/2017**

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Creation of TNF alpha fusion red LVA and HA fusion red LVA tags for Euts

**MONDAY, 7/31/2017**

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Gibson for fusion red luciferase LVA and conformation of product with gels.

**MONDAY, 8/7/2017**

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Triple transformation with mutants, TNF alpha fusion red LVA or Ha fusion red LVA on Euts- unsuccessful

**MONDAY, 8/14/2017**

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Triple transformation with mutants, TNF alpha fusion red LVA or Ha fusion red LVA on Euts- unsuccessful

**MONDAY, 8/21/2017**

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HA fusion red LVA tag unsuccessful. TNF alpha successful and confirmed with gel analysis and sequencing

**MONDAY, 8/28/2017**

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Triple Transformation of mutants with fusion red luciferase LVA- successful

**MONDAY, 9/4/2017**

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Start of classes- no lab meeting

**MONDAY, 9/11/2017**

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Collaboration with the Colorado State University iGem team.

**MONDAY, 9/18/2017**

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Imaging of triple transforms unsuccessful. No fluorescence visible

**MONDAY, 10/2/2017**

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Triple transformations using mutants with PEVOL and either Fusion Red or TNF alpha. Multiple trials of triple transformations.- unsuccessful

**MONDAY, 10/9/2017**

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Triple transformations using mutants with PEVOL and either Fusion Red or TNF alpha. Multiple trials of triple transformations.- unsuccessful

**MONDAY, 10/16/2017**

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Triple transformations using mutants with PEVOL and either Fusion Red or TNF alpha. Multiple trials of triple transformations. A successful transformation (Fusion Red) was grown up and imaged. The images were unsuccessful and no micro compartments were seen.

**MONDAY, 10/23/2017**

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Triple transformations using mutants with PEVOL and either Fusion Red or TNF alpha. Multiple trials of triple transformations.- unsuccessful