<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURE TOPIC</th>
<th>INSTRUCTOR</th>
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</thead>
<tbody>
<tr>
<td>Two classes/week</td>
<td>One paper for each class</td>
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<tr>
<td>August 27 &amp; 31</td>
<td>1. DNA Methylation</td>
<td>Taiping Chen</td>
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<tr>
<td>September 7 (9-12)</td>
<td>2. Histone Modifications</td>
<td>Mark Bedford</td>
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<td>September 10 &amp; 14</td>
<td>3. ATP-Dependent Chromatin Remodeling</td>
<td>Snow Shen</td>
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<tr>
<td>September 17 &amp; 21</td>
<td>4. Epigenetic Drugs</td>
<td>Mark Bedford</td>
</tr>
<tr>
<td>September 24 &amp; 28</td>
<td>5. Transgenerational Epigenetic Inheritance</td>
<td>Taiping Chen</td>
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1. **DNA Methylation** (Deposition, maintenance and disease implications)

   *Example paper:*
   


2. **Histone Modifications** (Epigenetic marks and their effector proteins)

   *Example paper:*
   


   Weinert et al. Time-Resolved Analysis Reveals Rapid Dynamics and Broad Scope of the CBP/p300 Acetylome. Cell 2018, online.

3. **ATP-Dependent Chromatin Remodeling** (Different complexes that move nucleosomes)

   *Example paper:*
   

   Wei et al. Vitamin D Switches BAF Complexes to Protect β Cells. Cell 173:1135-1149

4. **Epigenetic Drugs** (Novel therapeutic approaches that target epigenetic regulators)

   *Example paper:*
   

5. **Transgenerational Epigenetic Inheritance** (Controversies and facts surrounding this issue)

   *Example paper:*
   