**Ideas for Stats EOY Data Analysis Project**

**What they found:** CKs play little part in auxin-mediated but repression and release from apical dominance, but rather they provide a mechanism for buds to escape apical dominance and activate even in the presence of auxin

1. Decapitation resulted in 8-fold increase in **IPT3** compared to control**. IPT1, IPT5,** and **IPT7** had no significant results.
2. Single **IPT** **mutants** formed less than one branch on average compared to WT (Col); Triple **IPT** **mutants** formed similarly less than one branch; Quadruple **IPT mutants** formed no branches. \*\*Findings significant with role of CK in promoting branching\*\*
3. Grafted TRIPLE **IPT mutants** significantly reduced branching compared to WT(Col). **GRAFTED WT shoot OR root** resulted in WT levels of branching. Therefore, CK produced in WHOLE plant rather than shoot alone contribute to branching in intact plants.
4. SINGLE mutants responded to decapitation by producing more branches. \*\*TRIPLE AND QUADRUPLE MUTANTS DID NOT\*\*
5. TRIPLE MUTANTS did not even initiate buds, therefore could not activate buds. **IPT3** showed more empty axils than wild-type. **IPT5** and **IPT7** had

**Back ground:**

**Hypotheses:**

**What and how are we analyzing?**