1. What is the Big Question?

- Kinship Inference:
- Given a set of offspring, our goal is to formulate the minimum parentage assignment problem/minimum number of mating problem.

2. What exists?

- Statistical methods and combinatorial approaches such that SIBSHIP,
 Pedigree, KINGROUP, and COLONY rely on statistical estimates of
 relatedness and reconstruct the maximum likelihood sibling groups.
- 2-Allele Minimum Set Cover, Family Finder and Almudevar mix statistical and combinatorial approaches

3. What is missing?

- Most of the above existing methods make assumptions that do not hold for wild populations of animals and plants.
- Computational complexity is unknown for all the problems except for 2-Allele Minimum Set Cover problem.

4. How do you fulfill that?

- Here we will list all the variance of minimum parentage assignment/minimum number of mating's problem.
- We will also formulate all these variances of the above problem computationally and will classify them into buckets such as 'Easy' and 'Hard'

5. What impact will this have on world?

 We are formulating the biological problems into computational problems so that we can find kinship inference for a majority of wild animals and plants.