

# Industrial Defined Problem

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Biofest2017  
in association with  
BCGRC (Baba clinical & genomic research centre)



# General Instructions

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- IDP is a Pre-registered Event
- Maximum of 2 people in a team. No separate registration fee is applicable.
- Participants are required to have a Biofest Passport issued on the day(s) of Biofest for entry.
- The participants will have to work on the problem statement and send a presentation to [mdp@biofest.in](mailto:mdp@biofest.in) before the deadline **3<sup>rd</sup> March 2015**.
- The participants will be judged on the basis of their presentation by the judges. The finalists will get an opportunity to present their idea during Biofest' 17 at the Department of Biotechnology, IIT Madras on 5<sup>th</sup> March, 2017.
- Total prize money of ₹10,000 will be given to the best solution(s).

Please visit the website regularly for updates regarding registration.

For any queries, contact us at [mdp@biofest.in](mailto:mdp@biofest.in), **Mousami Shinde(8308057499)**.



# Problem Statement

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Device a way to manifest the existence of an average of 5 polymorphisms in each allele to tell the physician that the patient is likely or unlikely to respond to a specific drug.

An allele is the variant form of a given gene. A population or species of organisms typically includes multiple alleles at each locus among various individuals. Allelic variation at a locus is measurable as the number of alleles (polymorphism) present, or the proportion of heterozygotes in the population.