

## PHILIPPINE PIG BREEDING TECHNOLOGY: NEEDS AND R&D

### Biotechnology Laboratory

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## ANIMAL BIOTECHNOLOGY LABORATORIES IN THE PHILIPPINES

- Philippine Carabao Center (PCC) Biotechnology Laboratories
- UP Los Baños - Animal Biotechnology Laboratory (ABL)
- UP Diliman – Philippine Genome Center (PGC)

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## DEVELOPMENT PLANS

- Enhancement of animal biotech laboratories in the country
- Establishment of a Swine Genomics Testing Laboratory
  - Service Laboratory
- Collaboration in human resource development

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## SWINE GENOMICS TESTING LABORATORY

- Private-Public Partnership in the operation of genetic analytical laboratory
- Testing of samples for markers of economically important traits

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## NEEDS FOR THE BIOTECH LABORATORY

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## LABORATORY OPERATIONS

- Sample collection
- Is performance data included when sample is collected?
- How do you source your Taq polymerase and other expensive enzymes?
- How do you do your sizing? Manually or automated?

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## ANALYSIS OF DATA

- How do you utilize the genotyping data generated?
- What model is used in the computation of the new rating with marker data?
- What is the statistics involved?
- How much sample size is needed to attain a significant improvement?

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## MANAGEMENT

- What are the changes in management procedures that should be implemented when the animals are genotyped?
- How is marker information used in the development of the breeding program in the farm?

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