Setting the Scene

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Servicing laboratories and Quality Assurance tolls
ICAR’s Building Blocks

- ID (“Foundation Stone”)
- Performance Recording
- Milk Laboratories
- Genetic Evaluations
ICAR Tools for the Milk Analyses

To promote and to maintain in the ICAR dairy laboratories the highest possible standard of accuracy and precision to build confidence in the comparability of measurements

- ICAR Proficiency Test (PT)
- ICAR Milk Analyzers Certification
Laboratory benefit to participate in...

- High quality homogeneous – stable samples
- Independent assessment of assigned value and reliability of the data received

**ICAR PT**

- ISO 17043
- To give indication to the participant lab on its performance

- Comprehensive INDIVIDUAL report for a positive feedback in the participant laboratory
- ICAR PT provides schemes designed to facilitate the improvement of the quality of milk DHI analyses

- Individual control charts over time
- With the PTs, ICAR collects information on the QA procedures operating in the DHI labs and consider in the evaluation of ICAR PT populations
Laboratory benefit to manage own PT
ICAR benefits to manage own PT

- To create a professional collaboration with the ICAR PT participants
- To calculate the precision among the ICAR laboratories for reference and routine methods
- To evaluate if the ICAR PT precision is fit for the ICAR purposes and if it is comparable with the precision specified in the ISO standard
- To highlight the laboratories that participate in the ICAR PT to be consistent with the ICAR Certificate of Quality
ICAR benefits to manage own PT
ICAR benefit to manage own PT

Scheme O

- National PT scheme C - Distribution of laboratory scores - SCC Routine methods (FOE)
  - 84 laboratories
  - 10% out of the target

- National PT scheme A - Distribution of laboratory scores - SCC Routine methods (FOE)
  - 20 laboratories
  - 43% out of the target

- National PT scheme B - Distribution of laboratory scores - SCC Routine methods (FOE)
  - 84 laboratories
  - 39% out of the target

- International PT scheme O - Distribution of laboratory scores - SCC Routine methods (FOE)
  - 19 laboratories
  - 59% out of the target
ICAR benefits to manage own PT
Worldmap - ICAR PT laboratories 2017

Countries with at least one organisation participating in the ICAR proficiency test

50 Laboratories 29 Countries
Participants March 2016-Sept. 2017

Number of Continents-Countries-Labs

- March 16
- Sep 16
- Dic 16
- March 17
- Sep 17

Legend:
- Continents
- Country
- N° Labs
ICAR PT Goals 2018

To increase the number of participating countries

To increase communication with the part. labs back and forth e.g.
- Technical questionnaires
- Delivery information

To obtain from each ICAR countries the performance for the 5 parameters (Fat-Protein-Lactose-Urea-Somatic Cell Counting) + New Parameters

With reference and/or routine method

To improve the ICAR Labs equivalence!
MILK ANALYZERS CERTIFICATION

Grandfather Exception Certification
1 application in 2017 and certification released

New Model Instrument Certification

ICAR LABs
Objective evidences of the instrument performance
Indications on the best use for ICAR purposes

According ICAR protocol and ISO 8196-3 IDF 128-3
Conclusions

ICAR is offering this initial Quality Assurance tools in milk analyses to create technical connections valuable exchange of practical aspects regarding the protocols application.

The network is useful to collect also the future needs of DHI milk laboratories
For the coming analytical challenges!

...new activities and service will come
Thank you

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