

# MIMS現象数理カフェセミナー

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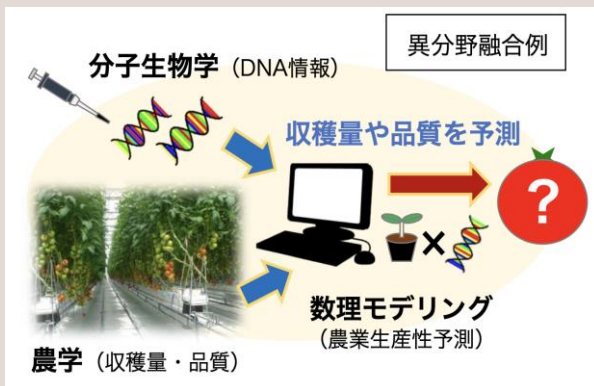
場所：今年度はZoomでのリモート開催となります

## Breeding and statistical modelling

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**Abstract** : Crops (plant species available for agriculture) have been improved for possessing various characteristics desirable for human through the process called “breeding.” “Breeding” has played important roles in people’s daily life as well as in the survival of the human race. The former is represented by good flavor of “Koshihikari” in rice and the latter is represented by the “Green revolution” that increased agricultural productivity dramatically from 1950s to 1960s. Until recently, breeding had been mainly performed with seat-of-the-pants of experienced breeders. However, in 2001, a new breeding approach called “Genomic Selection (GS)” of using statistical modelling was proposed. Since its proposal in 2001, GS has been

applied in many practical breeding projects. In the early part of this talk, I will introduce what is “breeding” and how important it is. In the latter part, I will explain what GS is and how it uses statistical modelling.



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