Genomic   Prediction Workshop

Chinese Academy of Forestry, Beijing, China

September 6-10, 2023

Instructors: Dr. Zhiwu Zhang (Zhiwu.Zhang@wsu.edu) and Dr. Jiabo Wang

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Website: https://zzlab.net/Beijing2023GS

Classroom: Room 115-116, Block B, State Key Laboratory of Forest Genetics and

Breeding, Chinese Academy of Forestry, Haidian District, Beijing

Lecture: 8:30 AM-Noon (30-minute break at 10 am)

Lab: 1:30-5:00 PM (30-minute break at 3 pm)

Objective: Develop concepts and analytical skills for modern breeding by using

genomic prediction in framework of mixed linear models and Bayesian

approaches.

Exam: September 10, 90 minutes (3:30-5:00 PM), 25 multiple-choice questions.

Project: Due at 5 pm on November 10, 2023 (Beijing time). There are two

operational projects. When both are completed, one will be treated as extra

credits.

Assessments: Exam (40%) and Project (60%).

Certificate: Certificate is available only for score of 60% or above.

Workshop Schedule

September 2023	Content	CROPS545*
6 (Wednesday)	GWAS	5,6,12-20
7 (Thursday)	MAS and Cross Validation	21 and 23
8 (Friday)	BLUP Alphabet GS	22 and 27
9 (Saturday)	Bayesian Alphabet GS	24-26
10 (Sunday)	GWAS Assisted GS	NA

*The equivalent lecture number of CROPS545(Statistical Genomics) at Washington State University in 2023. PPT and R code are available at https://zzlab.net/teaching.