

# ASReml Summer School 2018

Date: 6<sup>th</sup>-10<sup>th</sup> August 2018 (2018年8月6日-10日)

Place: Beijing, China(中国, 北京)

## DAY 1

Time	Topic	Trainer
8.30 – 9.00	Registration (签到, 安装软件, 拷贝资料)	
9.00 – 10.30	R Introduction (R 语言介绍)	
10.30 – 11.00	Coffee break (茶歇)	
11.00 – 12.00	ASreml-R and mixed model (ASreml-R 与混合线性模型介绍)	
12.00 – 13.00	Lunch (午餐)	
13.00 – 14.30	Quantitative genetics Theory (数量遗传育种理论) Introduction common models in Breeding (育种中常用的模型)	
14.30 – 15.00	Coffee break (茶歇)	
15.00 – 17.00	Practical session (上机操作)	

## DAY2

Time	Topic	Trainer
9.00 – 10.30	Genetic Models (遗传模型) Multivariate Analysis (多性状分析)	
10.30 – 11.00	Coffee break (茶歇)	
11.00 – 12.00	Define G and R matrix (如何定义 G 矩阵和 R 矩阵)	
12.00 – 13.00	Lunch (午餐)	
13.00 – 14.30	Practical session (上机操作)	
14.30 – 15.00	Coffee break (茶歇)	
15.00 – 17.00	Practical session (上机操作)	

## DAY3

Time	Topic	Trainer
9.00 – 10.30	Spatial Analysis (空间分析) Multi-environment Analysis (多环境数据分析)	
10.30 – 11.00	Coffee break (茶歇)	
11.00 – 12.00	G by E in Animal and Plant Breeding (动植物中基因环境互动)	
12.00 – 13.00	Lunch (午餐)	
13.00 – 17.00	Excursion (参观)	

## DAY4

Time	Topic	Trainer
9.00 – 10.30	Test-Day-Model (测定日模型) SNP Association Tests (SNP 关联分析)	
10.30 – 11.00	Coffee break (茶歇)	
11.00 – 12.00	GWAS (全基因组关联分析)	

12.00 – 13.00	Lunch (午餐)
13.00 – 14.30	Practical session (上机操作)
14.30 – 15.00	Coffee break (茶歇)
15.00 – 17.00	Practical session (上机操作)

## **DAYS**

<b>Time</b>	<b>Topic</b>	<b>Trainer</b>
9.00 – 10.30	Introduction to GBLUP (GBLUP 介绍) GBLUP in ASreml-R (GBLUP 在 ASreml-R 中的实现)	
10.30 – 11.00	Coffee break (茶歇)	
11.00 – 12.00	Cross-validation (交叉验证选择最优模型) Genomic Selection (全基因组选择)	
12.00 – 13.00	Lunch (午餐)	
13.00 – 14.30	Practical session (上机操作)	
14.30 – 15.00	Coffee break (茶歇)	
15.00 – 17.00	Certificate exam (认证考试)	