Workshop on Plant biology

using remote sensing, modelling, genetics and genomics to apply our knowledge for the better future.

Wed. 18th October, 09:00-15:00 (CEST) UZH Irchel Campus, Y10-G-03/04 or online*

*Registration is required to obtain the Zoom link for online participation

https://forms.gle/x2FQ7Mrms9rYs1wJA



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Organizing committee
Reiko Akiyama
Chengchoon Ang
Kazuki Fukushima
Masaomi Hatakeyama
Lukas Rohr
Aki Morishima
Yasuhiro Sato
Taro Takahashi
Kenii Yip Tong

Prof. Kentaro Shimizu

Misako Yamazaki

Morning Session I Chair person: PD Andreas Hund

JST	CEST	Speaker	Affiliation	Title of the talk
16:00	09:00	Prof. Kentaro Shimizu	UZH	Opening remarks
16:05	09:05	Prof. Hiroyoshi lwata	U o Tokyo	Modeling genome-phenome relationships to accelerate plant breeding
16:45	09:45	Yasuhiro Sato	UZH	Genome-wide neighbor effects predict genotype pairs that reduce herbivory in mixed planting
17:00	10:00	Afef Marzougui	ETH	Genotype-by-environment interaction studies using multi-scale phenotyping
17:20	10:20	Shunsuke Yoshioka	KU	A high-throughput phenotyping by UAVs of a wheat NAM population and exploration of effective traits for predicting yield components

Morning Session II Chair person: Prof. Hiroyoshi Iwata

JST	CEST	Speaker	Affiliation	Title of the talk
18:00	11:00	Prof. Merry Schuman	UZH	Leveraging remote sensing to assess plant genetic variation
18:25	11:25	Haruka Sano	UoT	UAV measurements of growth and phenology in larch and their genetic dissection
18:40	11:40	Haozhou Wang	UoT	Virtual Broccoli Farmland Implementation by Drone- based Phenotyping and Cross-scale Data Fusion
18:55	11:55	Reiko Akiyama	UZH	Tool for monitoring plants in natura
19:10	12:10	Katharina Jung	UZH	Exploring an Asian NAM population for rust resistance and drought tolerance
19:25	12:25	Kengo Sakurai	UoT	Random regression for modeling soybean plant response to irrigation changes using time-series multispectral data

Aftrernoon Session Chair person: Prof. Kentaro Shimizu

JST	CEST	Speaker	Affiliation	Title of the talk
20:45	13:45	Dr. Andreas Hund	ETH	Development of a global wheat full semantic segmentation dataset
21:05	14:05	Matthias Heuberger	UZH	How retrotransposons shape the evolution of wheat centromeres
21:20	14:20	Naoto Benjamin Hamaya	UZH	Unravelling the genetic architecture of male reproductive traits in Asian bread wheat
21:35	14:35	Aline Galatea Herger	UZH	molecular characterization of a non-conventional powdery mildew resistance protein in wheat: Pm4
21:50	14:50	Prof. Kentaro Shimizu	UZH	Closing remarks

UZH: University of Zurich UoT: University of Tokyo ETH: ETH Zürich