8-9	Monday June 10 Phenomics Breakfast together Viikki*	Tuesday June 11 Imaging stress Breakfast together Viikki*	Wednesday June 12 Metabolomics Breakfast together Viikki*	Thursday June 13 Field Phenomics Breakfast together Viikki*	Friday June 14 Integrated omics Breakfast together Viikki*
09.00	Course introduction (KH) Phenomics introduction Teachers introduction (all teachers) K111/C1	EnBlightMe – detecting plant diseases in the field (Erik Alexandersson)	Journal Club: Student presentations of the pre- assigned literature in groups (all teachers)	Field phenomics (Morten Lillemo) break	Gene ontology lecture (Erik Alexandersson)
10.30	break Low cost phenotyping set ups and Specalyzer (Aakash Chawade)	break Chlorophyll fluorescence for plant stress phenotyping (Mirko Pavicic)	break Introduction to Metabolomics (Markku Keinänen)	Public private partnerships for breeding (Magnus Göransson Agriculture University of Iceland)	break GoMapMan and MapMan for metabolomics analysis (Špela Baebler)
12.00	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13.00	Introduction of the NaPPI facilities (Katriina Mouhu)	Hyper- and multispectral imaging for health and disease (Markku Keinänen)	Workshop 2. Metabolomics methods, visit to metabolomics lab and introduction to data analysis (Markku Keinänen, Nina Sipari) Workshop 3 sum up	Workshop 3. Processing and analysis of drone images (Ingunn Burud and Sahameh Shafiee)	Workshop 4. Metabolomics with GoMapMan (EA, SB)
14.00	Workshop 1. in 4 groups Two groups: 1. Arabidopsis under stress -> Metabolomics sampling 2. Large plant phenotyping	Workshop 1. in 4 groups Two groups: 1. Arabidopsis under stress -> Metabolomics sampling 2. Large plant phenotyping			
15.00	Two groups: 3. TBD 4. Specalyzer	Two groups: 3. TBD 4. Specalyzer			Course wrap up and
16.00	Workshop 1 sum up (meeting rooms B145, 117)	Workshop 2 sum up (meeting rooms B145, 117)			evaluation
			Departure @ 17.00 Social event on Suomenlinna island -starts at 18.35		Departure
17.30 Evening:	Students introduction over pizza dinner	Preparation of journal club presentations and questions in assigned groups		Course dinner in Viikki area	

Viikki\* Breakfast is available for all students at the Viikki campus cafeteria "Ladonlukko" between 7.45-8.55 am, address: Latokartanonkaari 9, building A.

The main lecture hall for the course is C1/K111 in Latokartanonkaari 5, C-building