

## Wageningen BrAPI Hackathon 2019 Agenda

Monday April 29th to Friday May 3rd, Wageningen University & Research.

### Project Highlights

Below is a list of some of the more popular group projects which will be worked on, based on the registration survey.

- JSON-LD
- BrAPI-R
- Flapjack
- Various connections to BreedBase (HIDAP, PhenoApps, Image Processing)
- TERRA-REF
- KSU FieldBook (and other PhenoApps)
- Sample Submission Automated Workflow
- Genotyping data discovery

### Day 1: Monday April 29, 2019

9:30 - 9:45	Group Intro and Tech Setup - All Participants	
9:45 - 10:00	<b>Welcome to WUR with Petra Caessens</b> Director of Operations of the Plant Science Group	
10:00 - 11:00	<b>Community Updates</b> 10 min presentations <ul style="list-style-type: none"><li>- Description of the tool/application/project</li><li>- How you use (or hope to use) BrAPI</li><li>- Highlight any BrAPI related Wins</li><li>- Overview of BrAPI related challenges</li></ul>	Project Work Time
11:00 - 11:15	Break	
11:15 - 12:30	<b>Community Updates</b> (continued)	
12:30 - 13:30	Lunch - All Participants	
13:30 - 15:30	<b>BrAPI for Beginners</b> <ul style="list-style-type: none"><li>- BrAPI 101 presentation by Peter Selby</li><li>- Hands on coding example</li></ul>	Project Work Time
15:30 - 15:45	Break	
17:25 - 17:30	Wrap up Day #1	

**Day 2: Tuesday April 30, 2019**

9:30 - 9:35	Morning Announcements	
10:00 - 11:00	<b>Planning BrAPI Version 2</b> <ul style="list-style-type: none"><li>- Release Schedule</li><li>- Target Contents</li><li>- Splitting BrAPI</li></ul>	Project Work Time
11:00 - 11:15	Break	
12:30 - 13:30	Lunch - All Participants	
13:30 - 14:30	<b>Improving the Genotype data model</b> <ul style="list-style-type: none"><li>- Building on GA4GH model</li></ul>	Project Work Time
15:30 - 15:45	Break	
15:45 - 16:45	<b>Linking External Standards to BrAPI</b> <ul style="list-style-type: none"><li>- MIAPPE, MCPD, ICASA, Ontologies, etc</li><li>- How to document links between concepts</li></ul>	
17:25 - 17:30	Wrap up Day #2	

**Day 3: Wednesday May 1, 2019**

9:30 - 9:35	Morning Announcements	
10:00 - 11:00	<b>Planning High Throughput Phenotyping API</b> <ul style="list-style-type: none"><li>- Define 1-3 generic use cases</li><li>- First draft of models and calls needed for those use cases</li></ul>	Project Work Time
11:00 - 11:15	Break	
12:30 - 13:30	Lunch - All Participants	
13:30 - 15:30	<b>The G2P-SOL Training School: BrAPI Interaction with Industry</b> Showcase on how BrAPI can be used by end-users: <ul style="list-style-type: none"><li>- Load data from any BrAPI data source right into R and analyses</li><li>- Visualize geographic information about germplasm and trials by plotting the data on a map</li><li>- Use mobile devices to collect field trial data and directly import it into the BrAPI data source</li><li>- Pull genotypic data from any BrAPI data source and visualize it using tools like Flapjack</li></ul>	Project Work Time
15:30 - 15:45	Break	
17:25 - 17:30	Wrap up Day #3	
18:30 - 20:30	<b>Community Dinner at Asia Plaza</b> Hoevenstein 217, 6708 AJ Wageningen <a href="https://www.asia-plaza.nl/">https://www.asia-plaza.nl/</a>	

**Day 4: Thursday May 2, 2019**

9:30 - 9:35	Morning Announcements	
10:00 - 11:00	<b>Planning Breeding Crosses API</b> <ul style="list-style-type: none"><li>- Define 1-3 generic use cases</li><li>- First draft of models and calls needed for those use cases</li></ul>	Project Work Time
11:00 - 11:15	Break	
12:30 - 13:30	Lunch - All Participants	
13:30 - 14:30	<b>Planning Agronomy API</b> <ul style="list-style-type: none"><li>- Define 1-3 generic use cases</li><li>- First draft of models and calls needed for those use cases</li></ul>	Project Work Time
15:30 - 15:45	Break	
17:25 - 17:30	Wrap up Day #4	

**Day 5: Friday May 3, 2019**

9:30 - 9:35	Morning Announcements	
11:00 - 11:15	Break	Project Work Time
12:30 - 13:30	Lunch - All Participants	
13:30 - 15:30	<b>Project Presentations - All Participants</b>	
15:30 - 15:45	Break - All Participants	
15:45 - 17:00	<b>Project Presentations - All Participants</b>	