

Verily Life Sciences 1600 Amphitheatre Parkway Mountain View CA 94043

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MS Innovation Workshop for Spring 2016

Summary

Verily is planning to host a workshop in May, on innovation in the treatment of Multiple Sclerosis (MS), in the context of our SysteMS Verily:Biogen:BWH MS systems biology collaboration.

Description

The event will be a two-day workshop, hosted and organized by Verily (formerly Google Life Sciences) and Biogen IDEC. We are targeting the 23rd and 24th of May 2016, at Google's Cambridge office (5 Cambridge Center, Cambridge MA).

The agenda will start with scientific presentations for the first day, to provide MS context and introduce key areas of innovation in systems biology. The second day will focus on a workshop with the main goal of prioritizing novel experimental and analytic approaches to address the key questions in MS systems biology.

The result of this workshop will be a report articulating the potential of quantitative phenotyping and molecular systems biology in MS. We plan to publicise this report as a press release, or as an editorial article in a scientific journal.

Organizers

<u>Verily</u>: Joseph Lehar, Abe Murray, Steve Vinter, Vik Bajaj. <u>Biogen</u>: Jane Rhodes, Jaya Goyal, Richard Ransohoff. <u>Academic</u>: Howard Weiner, Phillip Sharp, Dennis Ausiello.

For questions, contact verily-ms-workshop@google.com



Workshop Agenda - Day 1 - May 23

8:00	Registration and breakfast	
Introduction		10 min + 5 min Q&A
8:30	Challenges for MS patients	Bruce Bebo, MS Society
8:45	Challenges for MS treatment	Howard Weiner, HMS/BWH
9:00	Challenges for neurologic diseases	Al Sandrock, Biogen
Phenotype		20 min + 10 min Q&A
9:15	Phenotypes in neurologic disease	Bastiaan Bloem, Nijmegen
9:45	Innovation in MS-related imaging	Dan Reich, NINDS
	15 minute break	
Mechanism		20 min + 10 min Q&A
10:30	Molecular mechanisms underlying MS	Sergio Baranzini, UCSF
11:00	Immunology of MS	Amit Bar-Or, McGill
11:30	MS Immune regulation	Philip De Jager, HMS/BWH
12:00	Microbiome and the immune system	Ramnik Xavier, Broad/HMS
	Lunch served in room	
Profiling		20 min + 10 min Q&A
1:30	Immunology systems and T-cell approaches	Vijay Kuchroo, Broad/HMS
2:00	Interrogation of the immune system	Aviv Regev, Broad/HMS
2:30	Brain Institute, multi-omics	Nancy Cox, Vanderbilt
	15 minute break	
Integrative		20 min + 10 min Q&A
3:15	Protein interactome of psychiatric disease	Kasper Lage, MGH/HMS
3:45	Integrative models of neurology	Dan Geschwind, UCLA
Closing p	resentations	20 min + 10 min Q&A
4:15	Future of MS biology and treatment	Richard Ransohoff, Biogen
4:45	SysteMS collaboration	Vik Bajaj, Verily



Workshop Agenda - Day 2 - May 24

9:00	Registration and breakfast		
Workshop topics		20 min + 10 min Q&A	
9:30	Workshop topics and goals	Phil Sharp, MIT/Koch	
Workshop sessions		4 groups, 2 hour discussion	
10:00	Phenotype - challenges & opportunities	Moderator: Bastiaan Bloem	
10:00	Mechanism - challenges & opportunities	Moderator: Philip De Jager	
10:00	Profiling - challenges & opportunities	Moderator: Nancy Cox	
10:00	Integrative - challenges & opportunities	Moderator: Dan Geschwind	
11:50	Break / return to main room		
Lunch served in room			
Workshop outcomes		10 min + 5 min Q&A	
1:00	Phenotype workshop results		
1:15	Mechanism workshop results		
1:30	Profiling workshop results		
1:45	Integrative workshop results		
Closing remarks		10 min + 10 min Q&A	
2:00	Next steps and final discussion	Vik Bajaj, Verily	