

BISC/ImmPort Data Release 9 studies

April 2014

Study Program: Influenza Pathogenesis & Immunology Research Center (IPIRC)

Title: Systems Biology of Seasonal Influenza Vaccination in Humans

Accession: SDY61

Subjects: 10

Study PI, contact: Bali Pulendran, Emory Vaccine Center, Atlanta, GA

Study Description: Using a systems biology approach to study innate and adaptive responses to influenza vaccination in humans during 3 consecutive influenza seasons

Publication:

- Systems biology of vaccination for seasonal influenza in humans. *Nature Immunology* 2011 Jul 10;12(8):786-95. doi: 10.1038/ni.2067. [[PubMed](#)]

Assays in ImmPort:

Assay Type	Number of Exp. Samples
Hemagglutination Inhibition	54
FCM	4
Array	27
Q-PCR	27

Clinical Assessments in ImmPort: none

Notes: HAI results shared

Study Program: Influenza Pathogenesis & Immunology Research Center (IPIRC)

Title: Systems Biology of Seasonal Influenza Vaccination in Humans

Accession: SDY269

Subjects: 63

Study PI, contact: Bali Pulendran, Emory Vaccine Center, Atlanta, GA

Study Description: Using a systems biology approach to study innate and adaptive responses to influenza vaccination in humans during 3 consecutive influenza seasons

Publication:

- Systems biology of vaccination for seasonal influenza in humans. *Nature Immunology* 2011 Jul 10;12(8):786-95. doi: 10.1038/ni.2067. [[PubMed](#)]

Assays in ImmPort:

Assay Type	Number of Exp. Samples
Hemagglutination Inhibition	336
FCM	59
Array	263
Q-PCR	75
ELISPOT	336
Luminex_xMAP	168

Clinical Assessments in ImmPort: none

Notes: ARM name change

Study Program: Influenza Pathogenesis & Immunology Research Center (IPIRC)

Title: Systems Biology of Seasonal Influenza Vaccination in Humans

Accession: SDY270

Subjects: 30

Study PI, contact: Bali Pulendran, Emory Vaccine Center, Atlanta, GA

Study Description: Using a systems biology approach to study innate and adaptive responses to influenza vaccination in humans during 3 consecutive influenza seasons

Publication:

- Systems biology of vaccination for seasonal influenza in humans. *Nature Immunology* 2011 Jul 10;12(8):786-95. doi: 10.1038/ni.2067. [[PubMed](#)]

Assays in ImmPort:

Assay Type	Number of Exp. Samples
Q-PCR	90

Clinical Assessments in ImmPort: none

Notes: ARM name change

Study Program: Systems Analysis Vaccine Responses in Healthy and Hyporesponsive Humans

Title: Systems scale interactive exploration reveals quantitative and qualitative differences in response to influenza and pneumococcal vaccines

Accession: SDY180

Subjects: 46

Study PI, contact: A. Karolina Palucka, Baylor Institute for Immunology Research, Dallas, TX

Study Description: Systems approach to study immune response to seasonal influenza and 23-valent pneumococcal vaccination in healthy adults.

Publication(s):

- Systems scale interactive exploration reveals quantitative and qualitative differences in response to influenza and pneumococcal vaccines. *Immunity* 2013 Apr 18;38(4):831-44. [[PubMed](#)]

Assays in ImmPort:

Assay Type	Number of Exp. Samples
Array	542
Flow Cytometry	2208
Luminex xMAP	182
Virus Neutralization	89

Clinical Assessments in ImmPort: none

Notes: ARM name change

Study Program: Vaccination and Infection: Indicators of Immunologic Health and Responsiveness

Title: Apoptosis and other immune biomarkers predict influenza vaccine responsiveness

Accession: SDY212

Subjects: 91

Study PI, contact: Mark M. Davis, Stanford University School of Medicine, Stanford, CA

Study Description: In an effort to identify benchmarks of immunological health, influenza vaccination was used in 30 young (20 to 30 years) and 59 older subjects (60 to 89 years) as models for strong and weak immune responses, respectively.

Publication:

- Apoptosis and other immune biomarkers predict influenza vaccine responsiveness. *Molecular Systems Biology* 2013 Apr 16;9:659. doi: 10.1038/msb.2013.15. [\[PubMed\]](#)

Assays in ImmPort:

Assay Type	Number of Exp. Samples
Hemagglutination Inhibition	534
DNA Microarray	91
Peptide Microarray	91
PhosphoFlow	63
Flow Cytometry	540
MBAA, Luminex	91

Clinical Assessments in ImmPort: none

Notes: HAI results shared
