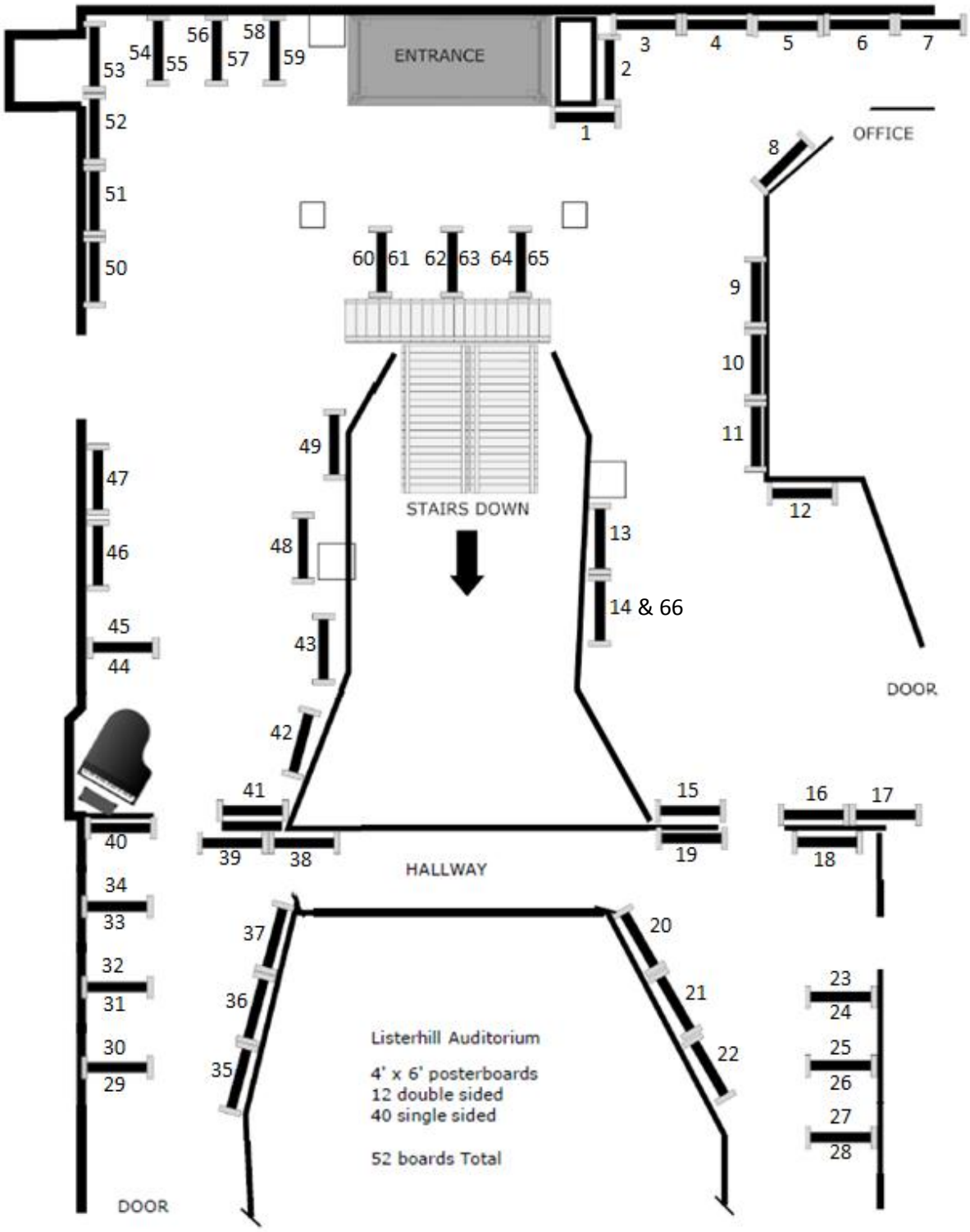
Floor Plan of Numbered Posters and List of Presenters

Poster Format: Landscape Orientation. Maximum Size 4'x6'

2015 IMAG MSM Consortium



List of Presenters for 2015 IMAG MSM Consortium

Follow the agenda details for presenting your poster by Group 1 & 2 assignment https://www.imagwiki.nibib.nih.gov/content/agenda-0

Poster #	Last Name	First Name	Poster Category	Group	Title
1	Alber	Mark	Cardiovascular	2	Multi-scale Models of Fibrin Networks and Blood Clots
2	Ayyaswamy	Portonovo	Pharmacology	2	Multiscale Modeling of Functionalized Nanocarriers in Targeted Drug Delivery: Effects of Blood Cell Interactions and Temporal Hydrodynamic Correlations
3	Barbee	Kenneth	Cardiovascular	2	Regulation of Store-Operated Calcium Entry in Endothelial Flow-Induced Nitric Oxide Production
4	Barnes	Stephanie	Cancer	1	Incorporating Patient-Specific Imaging Data and Therapeutic Regimens to Predict Eventual Response in Locally Advanced Breast Cancer via a Multi-Scale Model
5	Bisset	Keith	Population Modeling	1	A cyberinfrastructure supporting transdisciplinary research into population modeling at multiple scales
6	Bluestein	Danny	Cardiovascular	1	A Predictive Multiscale Model for Simulating Platelets Activation in Shear Flows
7	Buerk	Donald	Cardiovascular	1	In vivo studies of NO and ATP-induced arteriolar vasodilation during hypoxia
8	Buerk	Donald	Cellular Physiology	2	Shear Stress-Dependent NO, ATP and ADP Production from Endothelial Cells – a Modeling Approach
9	Bulanova	Anna	Neuroscience	2	Integrating Systems Biology Markup Language (SBML) in the NEURON simulator
10	Calvetti	Daniela	Cellular Physiology	1	Modeling of the microenvironment around a pH electrode tip
11	Cannon	William	Metabolism	1	Simulating Metabolism with Statistical Thermodynamics
12	Carlson	Ross	Infectious Disease	1	Predictive Multiscale Modeling of Microbial Consortia Biofilms
13	Drawert	Brian	Modeling tools and methods	2	StochSS: An Integrated Development Environment for Simulation and Analysis of Discrete Stochastic Biochemical Models
14	Ebrahimi	Davoud	Biomaterials	2	Biomaterials: Predictive Design, Synthesis and Material Properties
15	Eckmann	David	Pharmacology	2	Multiscale Modeling of Functionalized Nanocarriers in Targeted Drug Delivery: Effects of Blood Cell Interactions and Temporal Hydrodynamic Correlations
16	Fleming	Ronan	Modeling tools and methods	1	Computing non-equilibrium steady states for a biochemical network

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17	Garbey	Marc	Cardiovascular	2	VASCULAR ADAPTATION: CLOSING THE LOOP BETWEEN GENE EXPRESSION AND MORPHOLOGICAL CHANGE
18	Gu	Weiyong	Musculoskeletal	2	Multiscale and Multi-physics Modeling of Degenerative Disc Disease and in silico Clinical Trials for Disc Regeneration
19	Guccione	Julius	Cardiovascular	2	Multi-Scale Laws of Myocardial Growth and Remodeling
20	Haugh	Jason	Musculoskeletal	2	Multiscale Modeling of Wound Healing
21	Henson	Michael	Immunology or Musculoskeletal	1	Spatiotemporal Metabolic Modeling of Chronic Wound Biofilm Consortia
22	Holmes	Jeffrey	Cardiovascular	1	Coupling an Agent-Based Model of Scar Formation to a Finite-Element Model of Tissue Mechanics
23	Hormuth	David	Neuroscience	1	Biophysical models of C6 glioma growth in rats
24	Hu	Eric	Neuroscience	2	The Volterra Functional Series is a Viable Alternative to Kinetic Models for Synaptic Modeling -Calibration and Benchmarking
25	Humphrey	Jay	Cardiovascular	2	MSM of Thrombus Biomechanics in Aortic Aneurysms
26	Hunt	C. Anthony	Pharmacology	1	Virtual Experiments Falsify a Prevailing Mechanistic Explanation for Acetaminophen Induced Liver Injury and Enable Discovery of Plausible Alternative Hypotheses
27	Jafri	Mohsin	Cellular Physiology	1	Multiscale studies of mitochondrial calcium cycling
28	Jasiuk	Iwona	Musculoskeletal	2	Multiscale Modeling of Bone
29	Knothe Tate	Melissa	Imaging	1	The power of coupled multiscale imaging and modeling - How good is good enough?
30	Lazzi	Gianluca	Neuroscience	2	Towards an accurate multi-scale computational model for studying retinal prosthetic electrode design
31	Li	Ruizhi	Cardiovascular	2	High-throughput evaluation of platelet function under flow following trauma reveals platelet function defects & Recapitulation of mechanisms during trauma-induced coagulopathy in whole blood microfluidic assays
32	Li	Xuejin	Cardiovascular	1	Patient-specific modeling and analysis of hemodynamic behavior of individual sickle red blood cells under hypoxic conditions

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33	Lin	Ching-Long	Imaging	1	Toward Imaging-based Asthma Sub-Grouping: Cluster Analysis with Multiscale Structural and Functional Variables in Asthma Populations
34	Liang	Jie	Modeling tools and methods	2	Multiscale Spatial and Temporal Signaling and Patterning of Cells and Tissues: Stochastic Control Networks and Tissue Wound Healing
35	Lu	Yichen	Cardiovascular	2	Multiscale flow modelling of cell ensembles and reactive species transport with data-driven cellular activation models
36	Marjoram	Paul	Genetics	1	Multi-scale modeling of genetic variation in a developmental network
37	May	Elebeoba	Infectious Disease	1	Bacterial Adaptation to Host-Induced Environmental Stress
38	McDougal	Robert	Neuroscience	2	Coupling 1D and 3D domains in neuroscience simulations
39	McKenna	Matthew	Cancer	1	Multi-scale Treatment Response Model for Triple Negative Breast Cancer Linking Drug Administration Schedules to Tumor Cell Population Dynamics
40	Mofrad	Mohammad	Cellular Physiology	1	Multiscale Models of the Nuclear Pore Complex
41	Moore	James	Immunology	1	Fluid Pumping and Mass Transfer in the Lymphatic System
42	Neymotin	Samuel	Neuroscience	1	Optimizing computer models of layer 5 motor cortex pyramidal neurons using somatic whole cell recordings
43	Paluh	Janet	Modeling Methodology	2	Nanoscale and Molecular Framework for Modeling and Applying Communication at the Bottom
44	Paudel	Bishal	Cancer	1	Understanding complex drug response behavior of BRAF-mutated melanoma cells treated with targeted therapies
45	Pereira	Andre	Imaging	1	Paired, seamless multiscale imaging and modeling as a springboard to bridge the gap between nano- and macroscale models
46	Kirschner	Denise	Infectious Disease	1	A hybrid multi-scale model of tuberculosis maps bacterial metabolic scale dynamics to host tissue scale infection outcomes
47	Pruett	William	Population Modeling	2	Accurate rapid estimation of physics based model outputs with surrogate techniques

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48	Radhakrishnan	Ravi	Pharmacology	2	Next-Generation Pharmacodynamic Models for Targeted Drug Delivery: Multiscale Model for Nanocarrier Adhesion at the Live Cell Interface and Comparison to In Vivo Experiments
49	Sander	Edward	Cellular Physiology	2	Image-Based Multi-scale Mechanical Models for Predicting In Vitro Remodeling in Fibrin Gels
50	Saunders	Michael	Modeling tools and methods	2	Accurate solution of FBA models using large-scale optimization in quadruple precision
51	Sauro	Herbert	Modeling tools and methods	1	Fully Integrated Python Tools for Modeling, Analysis and Reproducibility
52	Searfoss	Abigail	Cancer	1	A Controllable and Imaging Compatible 3D Tumor Environment to Experimentally Test and Refine Tumor Growth Models
53	Shelburne	Kevin	Musculoskeletal	1	Multi-scale Muscle-Driven Simulation of Human Subjects: Muscle and Joint Mechanics in TKR
54	Sluka	Jim	Pharmacology	1	Tightly Coupled In Vivo Studies to Inform an In Silico Model of Acetaminophen Toxicity
55	Somersalo	Erkki	Modeling tools and methods	1	Multi-scale inverse problems: Beyond the modeling limit
56	Spill	Fabian	Cellular Physiology	1	Effects of 3D Geometries on Cellular Gradient Sensing and Polarization
57	Tan	Hua	Musculoskeletal	2	Modeling bone MSC lineage progression in a growth factor – loaded CaP scaffold subjected to mechanical stress
58	Boyle	John	Musculoskeletal	2	Multi-scale mechanics of the tendon-to-bone attachment
59	Walker	Mark	Modeling tools and methods	2	Delivering Models and Simulations as a Service (MaSS) with Galaxy
60	Weis	Jared	Cancer	1	A Numerically Efficient Mechanically Coupled Reaction-Diffusion Model to Predict the Response of Breast Cancer to Neoadjuvant Therapy
61	Winkelstein	Beth	Musculoskeletal	2	Multiscale Modeling of Facet Capsule Biology

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62	Xiaobo	Zhou	Cellular Physiology	1	Glomerular intercellular cross talk elaborately regulates podocyte injury and repair: insights from a 3D multiscale modeling study
63	Yazdani	Alireza	Cardiovascular	2	Multiscale Modeling of Blood Clotting: Coagulation Cascade and Platelets Aggregation
64	Yu	Gene	Neuroscience	2	Estimation of Local Field Potentials in a Three-Dimensional, Computational Model of the Hippocampal Dentate Gyrus: A Multiscale, Multimodal Framework
65	Zhang	Katherine	Cardiovascular	2	A Multi-Scale Mechanobiological Model Considering the Structure and Interrelation of ECM Constituents in Aorta
66	Barhak	Jacob	Modeling tools and methods	2	The Reference Model Uses Modular Population Generation