

Centers for Biomedical Research Excellence



Oklahoma Center for Respiratory & Infectious Diseases

2nd Annual Research Retreat

Wednesday, April 1
8AM - 5PM



Student Union Center,
Oklahoma State University
Stillwater, OK

OFFICIAL PROGRAM



Sponsored By:

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OSU VP Office for Research & Technology Transfer

OSU Center for Veterinary Health Sciences

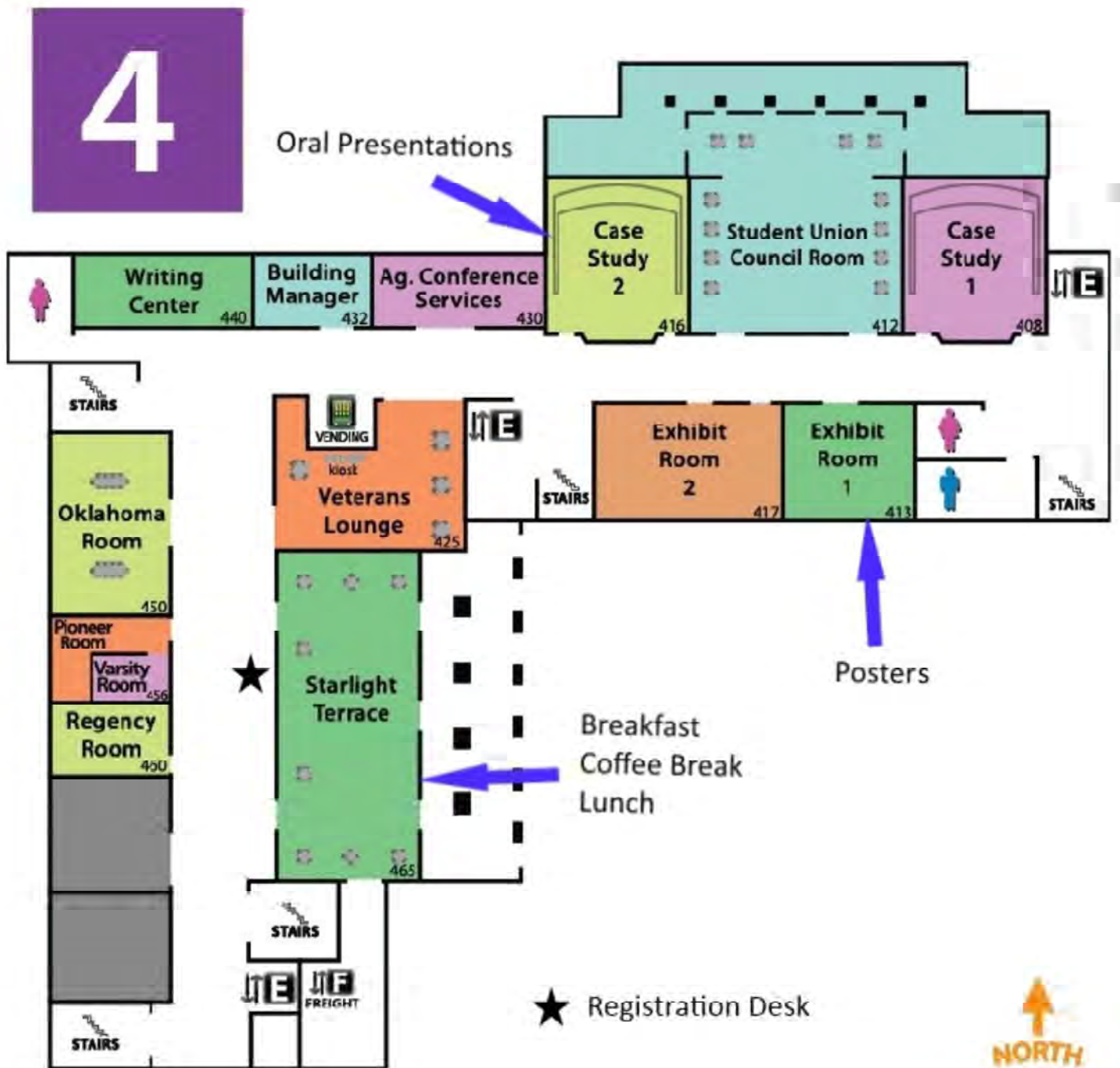


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Floor map of the venue (4th Floor of Student Union Building)





Wednesday, April 1, 2015 [Case Study 2 (Rm 416), Student Union except *]

- 7:00 AM - 7:45 AM Registration and Breakfast
**Starlight Terrace, Student Union*
- 7:00 AM – 8:00 AM Poster Setup
**Exhibit Room 1 (Room 413), Student Union*
- 8:00 AM - 8:40 AM Welcome Remarks –**Sheryl Tucker**, Interim Vice President for Research & Technology Transfer, Oklahoma State University and **Jean Sander**, Dean, Center for Veterinary Health Sciences, Oklahoma State University
- Program Director’s Report – **Lin Liu, Ph.D.**, Physiological Sciences, Center for Veterinary Health Sciences, Oklahoma State University
- Core Directors’ Report
- Animal Models Core, **Myron Hinsdale, Ph.D., DVM.**, Physiological Sciences, Center for Veterinary Health Sciences, Oklahoma State University.
 - Immunopathology Core, **Jerry Ritchey, Ph.D., DVM**, Veterinary Pathobiology, Center for Veterinary Health Sciences, Oklahoma State University.
 - Molecular Biology Core, **Lin Liu, Ph.D.**, Physiological Sciences, Center for Veterinary Health Sciences, Oklahoma State University.

Session I (Session Chair, Jordan Metcalf, M.D., University of Oklahoma Health Sciences Center)

- 8:40 AM – 9:20 AM Keynote Address # 1
Sadis Matalon, Ph.D, Dr. Sc. – Distinguished Professor, Alice McNeal Endowed Chair, and Vice Chairman for Research, Department of Anesthesiology, Director, Pulmonary Injury and Repair Center, School of Medicine, University of Alabama at Birmingham
“Hyaluronan mediates airway hyper-responsiveness in oxidative lung injury”
- 9:20 AM – 9:50 AM CoBRE Project 1 Presentation
Tom Oomens, Ph.D. – Veterinary Pathobiology, Center for Veterinary Health Sciences, Oklahoma State University
“Developing a live Respiratory Syncytial Virus vaccine with attenuation based on cell-cell transmission deficiency ”
- 9:50 AM – 10:05 AM CoBRE Pilot Project 1 Presentation
Junpeng Deng, Ph.D.—Biochemistry and Molecular Biology, Division of Agricultural Sciences & Natural Resources, Oklahoma State University
“Developing inhibitory antibodies for IL-17RA signaling domain”
- 10:05 AM – 10:25 AM Coffee Break
**Starlight Terrace, Student Union*



Session II (Session Chair, Susan Kovats, Ph.D. Oklahoma Medical Research Foundation)

- 10:25 AM – 11:05 AM Keynote Address # 2
K. Mark Coggeshall, Ph.D.— Robert S. Kerr, Jr. Endowed Chair in Cancer Research, Member, Immunobiology and Cancer Program, Oklahoma Medical Research Foundation
“Peptidoglycan acts as a Gram-positive endotoxin”
- 11:05 AM - 11:35 AM CoBRE Project 3 Presentation
Shanjana Awasthi, Ph.D. – Pharmaceutical Sciences, College of Pharmacy, University of Oklahoma Health Sciences Center
“Control of lung inflammation by a TLR4-interacting SP-A-derived peptide”
- 11:35 AM – 11:50 AM CoBRE Pilot Project 2
Erika Lutter, Ph.D. Microbiology and Molecular Genetics, College of Arts and Sciences, Oklahoma State University
“Antagonistic interactions between Pseudomonas aeruginosa cystic fibrosis isolates”
- 11:50 AM – 12:00 PM Abstract 101
Michael B. Anderson—Anatomy and Cell Biology, Center for Health Sciences, Oklahoma State University, Tulsa, OK
“Tissue Clearing with PACT, Fluorescent Immunohistochemistry and 3-Dimensional Reconstruction for the Spatial Evaluation of Protein Interactions”
- 12:00 PM – 12:10 PM Abstract 116
Jessica Chase— Animal Science, Division of Agricultural Sciences and Natural Resources, Oklahoma State University
“Type I Interferon response in calves experimentally infected with bovine viral diarrhea virus type 1b and Mannheimia haemolytica”
- 12:10 PM - 1:10 PM Lunch
**Starlight Terrace , Student Union*
- 1:10 PM – 1:30 PM Group Photo
**Flower Garden, Student Union*



Session III (Session Chair, Myron Hinsdale, Ph.D., DVM, Oklahoma State University)

- 1:30 PM – 2:10 PM Keynote Address # 3
Adolfo Garcia-Sastre, Ph.D. - Professor, Department of Microbiology
Fishberg Professor, Department of Medicine, Division of Infectious
Diseases, Director, Global Health and Emerging Pathogens institute,
Icahn School of Medicine at Mount Sinai
“Influenza virus-host factors interactions”
- 2:10 PM – 2:40 PM CoBRE Project 2 Presentation
Heather Gappa-Fahlenkamp, Ph.D. - Chemical Engineering, College of
Engineering and Architecture Technology, Oklahoma State University
“A Closer Look at the Cell Types Within the Tissue-Equivalent Respiratory Model”
- 2:40 PM — 3:10 PM CoBRE Project 4 Presentation
Teluguakula Narasaraju, Ph.D.—Physiological Sciences, Center for Veterinary
Health Sciences, Oklahoma State University
“Neutrophil-mediated acute lung injury during influenza virus pneumonia”
- 3:10 PM – 3:25 PM CoBRE Pilot Project 3 Presentation
Edward Shaw, Ph.D.—Microbiology and Molecular Genetics, College of Arts
and Sciences, Oklahoma State University
*“Developing an Intranasal Infection Model of Guinea pigs for Spotted
Fever Rickettsial Agents”*
- 3:25 PM – 3:40 PM CoBRE Pilot Project 4 Presentation
Ashish Ranjan, Ph.D.—Physiological Sciences, Center for Veterinary Health Sci-
ences, Oklahoma State University
“Nanotherapeutic modulation of autophagy for treatment of lung Pathogens”
- 3:40 PM — 3:50 PM Abstract 3
Sunil More—Physiological Sciences, Center for Veterinary Health Sciences, Okla-
homa State University
“Wnt/ β -catenin inhibitor iCRT14 inhibits influenza virus replication”
- 3:50 PM – 4:50 PM Poster Session & Closing
**Exhibit Room 1(Room 413), Student Union*
- 4:50 PM – 5:00 PM Announcement of Poster competition winners
**Exhibit Room 1(Room 413), Student Union*



Abstract list (in order in which the abstracts were received.)

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<u>Last Name</u>	<u>First Name</u>	<u>University</u>	<u>Email</u>
Anderson	Michael	OSU	michael.b.anderson@okstate.edu
Ashar	Harshini	OSU	harshini.ashar@okstate.edu
Awasthi	Shanjana	Ouhsc	Shanjana-Awasthi@ouhsc.edu
backhaus	chloe	OSU	chloe.backhaus@okstate.edu
Bamunuarachchi	Gayan	OSU	gbamunuarachchi@gmail.com
Behar	Amanda	OSU	amanda.behar@okstate.edu
Beierle	Jacob	Ouhsc	jacob-beierle@ouhsc.edu
Bello	Ghalib	OMRF	Ghalib-Bello@omrf.org
Bhowmick	Rudra	OSU	rudra.bhowmick@okstate.edu
Breshears	Melanie	OSU	melanie.breshears@okstate.edu
Chase	Jessica	OSU	jlchase@okstate.edu
Coggeshall	Mark	OMRF	mark-coggeshall@omrf.org
Davis	Michael	OSU	michael.davis@okstate.edu
Deng	Junpeng	OSU	junpeng.deng@okstate.edu
Derakshan	Mina	OSU	tahereh@ostatemail.okstate.edu
Eberle	R	OSU	r.eberle@okstate.edu
Eleshy	Rawan	OSU	rawan.eleshy@okstate.edu
Fahlenkamp	Heather	OSU	heather.fahlenkamp@okstate.edu
Ghousifam	Neda	OSU	ghousif@ostatemail.okstate.edu
Gou	Xuxu	OSU	xuxu.gou@okstate.edu
Hinsdale	Myron	OSU	myron.hinsdale@okstate.edu
Huang	Chaoqun	OSU	chaoqh@okstate.edu
Iyer	Janaki	OSU	janaki.iyer@okstate.edu
Khan	Faizan	OSU	faizan.khan@okstate.edu
Kolls	Jay	Children's Hospital of Pittsburgh	Jay.kolls@chp.edu
Kovats	Susan	OMRF	kovatss@omrf.org
Lameira	Elsa	OSU	lameira@ostatemail.okstate.edu
Lin	Dingbo	OSU	dingbo.lin@okstate.edu
Liu	Lin	OSU	lin.liu@okstate.edu
Lutter	Erika	OSU	erika.lutter@okstate.edu
Mahapatra	Saugata	OSU	saugata.mahapatra@okstate.edu
Martin	Riley	OSU	riley.martin@okstate.edu
Matalon	Sadis	University of Alabama at Birmingham	sadis@uab.edu
Mcallister	Rachel	OSU	rachel.mcallister@okstate.edu
Meshram	Chetan	OSU	fmeshra@okstate.edu
Metcalfe	Jordan	OSU	jordan-metcalfe@ouhsc.edu
More	Sunil	OSU	sunil.more@okstate.edu
Murphy	Chelsea	OSU	murphcl@ostatemail.okstate.edu
Nigatu	Adane	OSU	adane@okstate.edu
Ognibene	Cherie	OSU	cherie.ognibene@okstate.edu
Oomens	Tom	OSU	oomens@okstate.edu



<u>Last Name</u>	<u>First Name</u>	<u>University</u>	<u>Email</u>
Pascual	Elizabeth	OSU	elizabeth.pascual@okstate.edu
PREMARATNE	GAYAN	OSU	gayan.premaratne@okstate.edu
Ramani	Vijay	OUHSC	vijay-ramani@ouhsc.edu
Ramsey	Josh	OSU	josh.ramsey@okstate.edu
Ranjan	Ashish	OSU	ashish.ranjan@okstate.edu
Richards	Chris	OSU	ricch@okstate.edu
Ritchey	Jerry	OSU	jerry.ritchey@okstate.edu
Romine	Brooke	OSU	brookdr@okstate.edu
Rudd	Jennifer	OSU	jennifer.rudd@okstate.edu
Sander	Jean	OSU	Jean.sander@okstate.edu
Sastre	Adolfo Garcia	Icahn School Of Medicine at Mount Sinai	adolfo.garcia-sastre@mssm.edu
Sen	Ayantika	OSU	ayantika.sen@okstate.edu
Senavirathna	Lakmini	OSU	lakmini.senavirathna@okstate.edu
Shaw	Edward	OSU	ed.shaw@okstate.edu
Shin	Woo-Jin	OSU	woo-jin.shin@okstate.edu
Tang	Linyi	OSU	linyit@okstate.edu
Teluguakula	Narasaraju	OSU	narasa@okstate.edu
Tripp	Ralph	University of Georgia	ratripp@uga.edu
Tucker	Sheryl	OSU	sheryl.tucker@okstate.edu
Wang	Jun	OUHSC	Jun-Wang@ouhsc.edu
Weidman	Ruth	OSU	ruth.weidman@okstate.edu
White, DVM, MMS	Gary L.	OUHSC	gary-white@ouhsc.edu
Wright	Anna	OSU	anna.k.wright@okstate.edu
Xiao	Xiao	OSU	xiao.xiao@okstate.edu
Youssef	Noha	OSU	noha@okstate.edu
Zenewicz	Lauren	OUHSC	lauren-zenewicz@ouhsc.edu
Zeng	Xianming	OSU	xianming.zeng@okstate.edu
Zhang	Li	OSU	zhli@okstate.edu
Zhang	Glenn	OSU	glenn.zhang@okstate.edu
Zheng	Link	OSU	link.zheng@okstate.edu