

	2008 Basement Membranes Gordon Research Conference
	June 22-27, 2008
	University of New England, Biddeford, ME
AGENDA	
SUNDAY	
2:00 pm - 11:00 pm	Arrival and Check-in
6:00 PM	Dinner
7:30 pm - 7:45 pm	Welcome / Introductory Comments by GRC Site Staff and Conference Chair, Jeff Miner
7:45 pm - 9:30 pm	STRUCTURAL ASPECTS OF BASEMENT MEMBRANE PROTEINS
	Discussion Leader: Billy Hudson (Vanderbilt University Medical Center, Nashville)
7:45 pm - 8:10 pm	Billy Hudson (Vanderbilt University Medical Center, Nashville) "Glomerular basement membrane: assembly, novel crosslinks, and auto- and allo-epitopes of the $\alpha 3\alpha 4\alpha 5$ collagen IV network"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Kiyotoshi Sekiguchi (Osaka University, Osaka) "Molecular basis of basement membrane recognition by integrins"
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Mats Paulsson (University of Cologne, Cologne) "Structure and interactions of laminin short arms"
9:20 pm - 9:30 pm	Discussion
9:30 PM	Reception
MONDAY	
7:30 am - 8:30 am	Breakfast
8:30 AM	Group Photo
9:00 am - 12:30 pm	BASEMENT MEMBRANES: GENETICS AND ROLES IN DEVELOPMENT
	Discussion Leader: Lynn Sakai (Shriners Hospital for Children, Portland)
9:00 am - 9:25 am	David Sherwood (Duke University, Durham)

	"Breaching the basement membrane: anchor cell invasion in <i>C. elegans</i> "
9:25 am - 9:35 am	Discussion
9:35 am - 10:00 am	Jean Schwarzbauer (Princeton University, Princeton)
	"Regulation of <i>C. elegans</i> gonadal leader cell migration by integrins and extracellular matrix"
10:00 am - 10:10 am	Discussion
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Sunita Kramer (Robert Wood Johnson Medical School/UMDNJ, Piscataway)
	"Genetics of heart tube assembly in <i>Drosophila</i> "
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Lynn Sakai (Shriners Hospital for Children, Portland)
	"Extracellular regulation of growth factor signaling by fibrillin microfibrils"
11:40 am - 11:50 am	Discussion
11:50 am - 12:05 pm	Short Talk: Dong-Hua Yang (UMDNJ/RWJMS, Piscataway)
	"A generalized reduction of laminin gamma1 subunit causes a lelective peripheral nerve myelination defect"
12:05 pm - 12:10 pm	Discussion
12:10 pm - 12:25 pm	Short Talk: Karolina Rasi (University of Oulu)
	"Mice lacking type XV collagen and laminin alpha4 show developmental alterations of sciatic nerves"
12:25 pm - 12:30 pm	Discussion
12:30 PM	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session I
6:00 PM	Dinner
7:30 pm - 9:30 pm	BASEMENT MEMBRANES IN NEURAL DEVELOPMENT AND FUNCTION
	Discussion Leader: Joshua Sanes (Harvard University, Cambridge)
7:30 pm - 7:55 pm	Joshua Sanes (Harvard University, Cambridge)
	"Synaptic organizing molecules of the basal lamina"
7:55 pm - 8:05 pm	Discussion
8:05 pm - 8:30 pm	Uli Mueller (Scripps Research Institute, La Jolla)
	"Integrin functions in neural stem and precursor cells"
8:30 pm - 8:40 pm	Discussion

8:40 pm - 9:05 pm	James Fawcett (Cambridge University, Cambridge)
	"Extracellular matrix structures in the control of plasticity"
9:05 pm - 9:15 pm	Discussion
9:15 pm - 9:25 pm	Short Talk: Xianhua Piao (Children's Hospital/Harvard Medical School, Boston)
	"GPR56 regulates pial basement membrane integrity and cortical lamination"
9:25 pm - 9:30 pm	Discussion
TUESDAY	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	THE DISH AND BEYOND: NOVEL INSIGHTS INTO BASEMENT MEMBRANE BIOLOGY
	Discussion Leader: Monique Aumailley (University of Cologne, Cologne)
9:00 am - 9:25 am	Dennis Discher (University of Pennsylvania, Philadelphia)
	"Matrix elasticity directs stem cell lineage specification"
9:25 am - 9:35 am	Discussion
9:35 am - 10:00 am	Stephen Weiss (University of Michigan, Ann Arbor)
	"Membrane-tethered MMPs and the regulation of basement membrane cellular traffic"
10:00 am - 10:10 am	Discussion
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Arnoud Sonnenberg (The Netherlands Cancer Institute, Amsterdam)
	"Roles of the integrins alpha3beta1 and alpha6beta4 in keratinocyte migration"
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Monique Aumailley (University of Cologne, Cologne)
	"Laminin signaling in the skin"
11:40 am - 11:50 am	Discussion
11:50 am - 12:05 pm	Short Talk: Normand Pouliot (Peter MacCallum Cancer Centre, East Melbourne)
	"Combined in vitro and in vivo strategies to isolate bone metastatic breast tumor variants identify laminin-511 as a potent pro-metastatic substrate"
12:05 pm - 12:10 pm	Discussion

12:10 pm - 12:25 pm	Short Talk: Erhard Hohenester (Imperial College, London)
	"Structural basis of sequence-specific collagen recognition by SPARC"
12:25 pm - 12:30 pm	Discussion
12:30 PM	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session I
6:00 PM	Dinner
7:30 pm - 9:30 pm	PROTEOGLYCANS
	Discussion Leader: Renato Iozzo (Thomas Jefferson University, Philadelphia)
7:30 pm - 7:55 pm	Renato Iozzo (Thomas Jefferson University, Philadelphia)
	"Key roles for perlecan in skeletal muscle and cardiovascular development"
7:55 pm - 8:05 pm	Discussion
8:05 pm - 8:30 pm	Yoshi Yamada (National Institute of Dental and Craniofacial Research, Bethesda)
	"Multiple roles of perlecan in development and adult tissue functions"
8:30 pm - 8:40 pm	Discussion
8:40 pm - 9:05 pm	Rob Burgess (The Jackson Laboratory, Bar Harbor)
	"Partial loss of function caused by a point mutation in the SEA domain of agrin"
9:05 pm - 9:15 pm	Discussion
9:15 pm - 9:25 pm	Short Talk: Markus Rüegg (University of Basel, Biozentrum)
	"Muscle-wide secretion of a miniaturized form of neural agrin rescues focal neuromuscular innervation in agrin mutant mice"
9:25 pm - 9:30 pm	Discussion
WEDNESDAY	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	BASEMENT MEMBRANES AND DISEASE
	Discussion Leader: Ulrike Mayer (University of East Anglia, Norwich)
9:00 am - 9:25 am	Leena Bruckner-Tuderman (University Medical Center, Freiburg)
	"Collagen VII hypomorphic mouse: a model for cell therapy for dystrophic epidermolysis bullosa"
9:25 am - 9:35 am	Discussion

9:35 am - 10:00 am	Ulrike Mayer (University of East Anglia, Norwich)
	"Integrin function in heart and skeletal muscle"
10:00 am - 10:10 am	Discussion
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Kevin Campbell (HHMI/University of Iowa, Iowa City)
	"Molecular insights into dystroglycan function"
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Doug Gould (University of California at San Francisco, San Francisco)
	"Pleiotropy of the Col4a1 phenotypic spectrum includes neuronal lamination defects"
11:40 am - 11:50 am	Discussion
11:50 am - 12:05 pm	Short Talk: Eileen Hwang (UMDNJ RWJMS, Piscataway)
	"Folding renucleation after a sequence interruption in type IV collagen"
12:05 pm - 12:10 pm	Discussion
12:10 pm - 12:25 pm	Short Talk: Maria Luisa Oppizzi (California Pacific Medical Center, San Francisco)
	"Beta-dystroglycan trafficking to the nucleus points to functional diversification enabled by SEA autoproteolysis"
12:25 pm - 12:30 pm	Discussion
12:30 PM	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session II
6:00 PM	Dinner
7:15 pm - 7:45 pm	<u>Business Meeting</u>
	(Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
7:45 pm - 9:30 pm	BASEMENT MEMBRANES AND ORGANOGENESIS
	Discussion Leader: Matthew Hoffman (National Institute of Dental and Craniofacial Research, Bethesda)
7:45 pm - 8:10 pm	Nguyet Nguyen (Washington University, St. Louis)
	"Laminin alpha5 and the lung: the plot thickens"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Matthew Hoffman (National Institute of Dental and Craniofacial Research, Bethesda)
	"Basement membrane remodeling during branching morphogenesis"

8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Peter Yurchenco (Robert Wood Johnson Medical School/UMDNJ, Piscataway) "Role of gamma1 laminins and their receptors in renal collecting duct epithelial cell polarization and proliferation"
9:20 pm - 9:30 pm	Discussion
THURSDAY	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	MATRIX RECEPTORS AND SIGNALING
	Discussion Leader: Reinhard Faessler (Max Planck Institute for Biochemistry, Martinsried)
9:00 am - 9:25 am	Reinhard Faessler (Max Planck Institute for Biochemistry, Martinsried) "Genetic analysis of integrin signaling"
9:25 am - 9:35 am	Discussion
9:35 am - 10:00 am	Erica Golemis (Fox Chase Cancer Center, Philadelphia) "Coordinated deregulation of cell adhesion and cell cycle in NEDD9-induced metastasis"
10:00 am - 10:10 am	Discussion
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Alexander Bershadsky (Weizmann Institute of Science, Rehovot) "Mechanical and signaling aspects of crosstalk between cell adhesions and the cytoskeleton"
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Ohad Medalia (The Ben Gurion University, Beer-Sheva) "The molecular architecture of integrin-mediated focal adhesion revealed by cryo-electron tomography"
11:40 am - 11:50 am	Discussion
11:50 am - 12:05 pm	Short Talk: Corinne Albiges-Rizo (Inserm U823, Grenoble) "Cell adaptive response to extracellular matrix is controlled by ICAP-1-dependent beta1-integrin affinity"
12:05 pm - 12:10 pm	Discussion
12:10 pm - 12:25 pm	Short Talk: Xi Zhang (Vanderbilt University, Nashville) "Beta1 integrin plays a critical role in ureteric bud branching morphogenesis"
12:25 pm - 12:30 pm	Discussion

12:30 PM	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session II
6:00 PM	Dinner
7:30 pm - 9:30 pm	KEYNOTE PRESENTATION AND HOT TOPICS
	Discussion Leader: Charles Streuli (University of Manchester)
7:30 pm - 8:15 pm	Joan Brugge (Harvard Medical School, Boston) "Live free or die: Extracellular matrix control of epithelial cell viability"
8:15 pm - 8:30 pm	Discussion
8:30 pm - 9:30 pm	Hot Topics: <i>Four short talks from submitted abstracts</i>
8:30 pm - 8:40 pm	Dixie Pinke (University of Ottawa) "Control of three-dimensional breast morphogenesis through the protein elongation factor eEF1A2"
8:40 pm - 8:45 pm	Discussion
8:45 pm - 8:55 pm	Jenny Kruegel (University of Goettingen) "Nidogen-1 and nidogen-2 - the basement membrane-equivalent in the pericellular matrix of human chondrocytes"
8:55 pm - 9:00 pm	Discussion
9:00 pm - 9:10 pm	German Pinzon-Duarte (State University of New York Downstate Medical Center, Brooklyn) "Laminin ablation from ILM induces progressive retinal ganglion cell loss and abnormal axonal trajectories"
9:10 pm - 9:15 pm	Discussion
9:15 pm - 9:25 pm	Jenne Relucio (State University of New York, Stony Brook) "Fyn dysregulation accompanies delayed oligodendrocyte differentiation in laminin-deficient brains"
9:25 pm - 9:30 pm	Discussion
FRIDAY	
7:30 am - 8:30 am	Breakfast
9:00 AM	Departure Bottom of Form