13th Annual ION CHANNEL RETREAT 2015

Share Knowledge. Exchange Ideas. Establish Partnerships.

2015年7月7日-9日 加拿大温哥华凯悦酒店

Speaking Program | 演讲日程

Tuesday Morning, July 7th, 2015 | 2015年7月7日，星期二上午		
7:30	Registration	报到登记
8:45-9:00	Welcome & Opening Remarks – Aurora Biomed Inc.	开幕欢迎致辞——欧罗拉
Cardiac Safety and Pharmacology | 心脏安全性评价与药物治疗		
9:00-9:25	Keynote: **Arthur Brown** – *Chan Test / Charles River* – Comprehensive In Vitro Proarrhythmia Assay (CiPA) in action	
	主旨演讲：**Arthur Brown** - *Chan Test / Charles River* – 综合性体外心律失常分析项目(CiPA)	
9:30-9:55	**Shouming Du** - *Hamamatsu* – Electric Field Stimulation (EFS) of human iPS cardiomyocytes and primary neurons	
	Shouming Du – *Hamamatsu(日本滨松)* – 人类iPS心肌细胞和原代神经元的电场刺激（EFS）	
Structure, Function & engineering of Ion Channels | 离子通道结构、功能与基因工程		
10:00-10:25	Chair: **Frank Horrigan** - *Baylor School of Medicin* e – Mechanisms of BK channel Modulation	
	主持： **Frank Horrigan** – *贝勒医学院* – BK通道调节机制	
10:30-10:55	Coffee Break	茶歇
11:00-11:25	**Saverio Gentile** – *Loyola University Chicago* – Targeting voltage-gated K+ channels in cancer reveal new biochemical pathways and therapeutic opportunities	
	Saverio Gentile – *芝加哥洛约拉大学* – 揭示肿瘤中电压门控钾离子通道新生化分子通路和治疗靶点	
11:30-11:55	**Eric Accili** – *University of British Columbia* – Energetics of cyclic AMP binding to HCN channel C terminus reveal negative cooperativity	
	Eric Accili – *英属哥伦比亚大学* – 环腺苷酸结合HCN通道C端负协同效应的动力学分析	
12:00-12:25	**Yuqi Liu** – *Chinese PLA General Hospital* – Voltage-dependent anion channel involved in the mitochondrial calcium cycle of cell lines carrying the mitochondrial DNA A4263G mutation	
	Yuqi Liu – *中国人民解放军总医院* – 线粒体DNA A4263G突变细胞株中线粒体钙循环相关的电压门控阴离子通道	
12:25-13:15	Lunch	午餐沙龙
13:15-13:55	Posters & Networking	海报展示&交流分享
Tuesday Afternoon, July 7th, 2015 | 2015年7月7日，星期二下午		
14:00-14:25	**Geerten Vuister** – *University of Leicester* – Differential calmodulin-TRPV interactions in response to Ca2+ mediate channel regulation	
	Geerten Vuister – *莱斯特大学* – 针对Ca2+介导离子通道调节钙调蛋白-TRPV相互作用差异	
Transporters and Ion Pumps | 离子泵与转运载体		
14:30-14:55	**Christopher Triggle** – *Weill Cornell Medical College at Qatar* – Metformin; an old drug but with new targets that affect endothelial function: eNOS, transporters, cancer and aging	
	Christopher Triggle – *卡塔尔威尔康奈尔医学院* – 二甲双胍：一种传统药物对内皮功能新靶点作用：eNOS, 转运载体蛋白, 癌症和衰老	
15:00-15:25	**Larry Fliegel** – *University of Alberta* – Molecular Characterization of the Na+/H+ Exchanger In Human Disease	
	Larry Fliegel –*阿尔伯塔大学* -- Na+/H+ 交换体在人类疾病中的分子特性	
15:30-15:55	**Nathan Zahler** – *XRPro* – Transporter Activity: A Flexible High-Throughput Approach	
	Nathan Zahler – *XRPro* – 转运载体蛋白活动： 灵活高通量的方法	

Wednesday Morning, July 8th, 2015 | 2015年7月8日，星期三上午		
8:00	Registration	报到登记
8:50-9:00	Welcome & Opening Remarks – Aurora Biomed Inc.	开幕欢迎致辞——欧罗拉
Ion Channel Screening Technologies | 离子通道筛选技术		
9:00-9:25	Chair: **Richard Kondo** – *Sophion* - Qube – bringing direct Ion Channel recordings to HTS	
	主持：**Richard Kondo** – *Sophion*- Qube – 实现高通量离子通道记录	
9:30-9:55	**David Dalrymple** – *SB Drug Discovery* – TBD	
	David Dalrymple – *SB Drug Discovery* – 题目待定	
10:00-10:25	**Chris Chambers** – *Pfizer* - High Throughput Screening of NaV1.7 Assay using Qube Automated Electrophysiological S	
	Chris Chambers – *辉瑞制药* – Qube自动电生理系统实现NaV1.7高通量筛选	
10:30-10:55	Coffee Break & Posters	茶歇&海报展示
11:00-11:25	**Joe McGivern** – *Amgen Inc.* – Evaluation of SyncroPatch 384PE in an HTS setting	
	Joe McGivern – *安进公司* –评估SyncroPatch 384PE的高通量设定	
11:30-11:55	**George Okeyo** – *Nanion* - Complementary HTS Technologies towards a more rigorous safety screening paradigm	
	George Okeyo – *耐尼恩* – 补足性的HTS技术，一个更安全严密的筛选范例	
12:00-12:25	**Glenn Kirsch** – *Chan Test / Charles River* – Development of Screening Tools to Identify Nicotinic Receptor Subtype-Selective Compounds	
	Glenn Kirsch – *Chan Test / Charles River* – 明确烟碱性受体亚型-选择性化合物筛选工具的开发	
12:30-13:25	Lunch	午餐沙龙
Wednesday Afternoon, July 8th, 2015 | 2015年7月8日，星期三下午		
Ion Channels as Disease Targets | 离子通道作为疾病靶点研究		
13:30-13:55	Chair: **Shawn Iadonato** - *Kineta Inc.* – Kv1.3 channel blocker ShK186: a potential novel therapeutic for ANCA vasculitis and lupus nephritis	
	主持：**Shawn Iadonato** - *Kineta Inc.* –Kv1.3离子通道阻断剂ShK186: 治疗ANCA血管炎和狼疮性肾炎的潜在新方法	
14:00-14:25	**Annarosa Arcangeli** - *University of Florenc* e – Ion channels: novel biomarkers and therapeutic targets in cancer	
	Annarosa Arcangeli - *佛罗伦萨大学*– 离子通道：癌症中新的生物标记和治疗靶点	
14:30-14:55	Coffee Break & Posters	茶歇&海报展示
15:00-15:25	**Hailin Zhang** – *Hebei Medical University* – Targeted modulation of Kv7/KCNQ channel in dopaminergic neurons of ventral tegmental area affect the neuronal excitability and behavior of depression model	
	张海林 – *河北医科大学* –靶向调节腹侧被盖区的多巴胺能神经元中Kv7/KCNQ可影响神经元兴奋性以及抑郁症模型行为	
15:30-15:55	**Hannah Gaunt** – *University Leeds* – Englerin A as a novel potent activator of TRPC4 and TRPC5 channels	
	Hannah Gaunt – *利兹大学* –Englerin A：TRPC4 和TRPC5新的强力激活剂	
16:00-16:25	**David Hackos** – *Genentech* – Identification and characterization of novel NMDA receptor positive allosteric modulators	
	David Hackos – *Genentech* – 新的NMDA受体积极变构调节剂(PAMs)的识别和表征	
16:30-17:00	Posters & Networking	海报展示&交流分享
18:30	**Boat Cruise**	**游船**

Thursday Morning, July 9th, 2015 | 2015年7月9日，星期四上午		
8:00	Registration	报到登记
8:50-9:00	Welcome & Opening Remarks – Aurora Biomed Inc.	开幕欢迎致辞——欧罗拉
Alcohol, Tobacco and Ion Channels | 烟酒与离子通道		
9:00-9:25	Chair: **Andrew Homes** - *US National Institute of Health* – Alcohol effects on prefrontal NMDA receptor circuits mediatin	
	Andrew Homes – *美国国立卫生研究院* – 酒精对恐惧感受相关的前额叶NMDA受体回路的影响	
9:30-9:55	**Javier Camacho** – *CINVESTAV, I.P.N. Mexico* – Cigarette smoke and estradiol exposure regulate mouse AQP5, TRPC3 and TRPV1 ion channel expression in the lung, liver and kidneys	
	Javier Camacho – *CINVESTAV, I.P.N. Mexico* – 香烟烟雾和雌二醇对大鼠肺肝肾组织中AQP5, TRPC3 和TRPV1离子通道抑制的调节作用	
10:00-10:25	**Jie Wu** – *Barrow neurological Institute, St. Joseph's Hospital and Medical Center* – Roles of nicotinic acetylcholine receptor β subunit cytoplasmic loops in acute desensitization and single channel features	
	Jie Wu – *巴罗神经学研究所，圣约瑟夫医院和医疗中心*–乙酰胆碱受体β亚基胞质循环在急性脱敏治疗中的作用以及单一通	
10:30-10:55	Coffee Break & Posters	茶歇&海报展示
Structure, Function & engineering of Ion Channels | 离子通道结构、功能与基因工程		
11:00-11:25	Chair: **Richard Olsen** – *UCLA* – Biochemical identification of an Ethanol-sensitive benzodiazepine binding site on delta subunit-containing gaba-A receptors	
	主持：**Richard Olsen** – *加州大学洛杉矶分校* –含delta亚基的gaba-A受体上乙醇敏感型苯二氮结合位点的生化鉴定	
11:30-11:55	**Yu Zhou** – *Washington University in St. Louis, School of Medicine* – A new insight into an old toxin: allosteric inhibition of the BK-type channel by paxilline receptors	
	Yu Zhou –*圣路易斯华盛顿大学医学院* – 旧毒素的新视角：paxilline受体对BK型离子通道的异位抑制	
12:00-12:25	**Rajnish Ranjan** – *Blue Brain Project EPFL Switzerland* – The Channelome and Channelpedia (Automated biophysical characterization of complete Kv-Ion channel family)	
	Rajnish Ranjan – *瑞士蓝脑计划/EPFL* –离子通道家族百科 (Kv离子通道家族自动化生物物理表征)	
12:30-13:25	Lunch	午餐沙龙
Thursday Afternoon, July 9th, 2015 | 2015年7月9日，星期四下午		
Ion Channels as Pain Targets | 离子通道作为疼痛靶点		
13:30-13:55	Chair：**Ru-Rong Ji** - *Duke University* – Modulation of TRP channels by resolvins in mouse and human primary sensory	
	主持：**Ru-Rong Ji** – *杜克大学* – 小鼠和人类初级感觉神经细胞消散素对TRP通道的调控作用	
14:00-14:25	**Nikita Gamper** – *University of Leeds* – Role of ANO1 (TMEM16A) channels in inflammatory pain	
	主持：**Nikita Gamper** – *英国利兹大学* - ANO1 (TMEM16A)通道在炎症性疼痛中的作用	
14:30-14:55	**Yan Xu** – *University of Pittsburg* - Engineered Ion Channels as Receptor Therapeutics for the Treatment of Inflammatory	
	Yan Xu –*匹兹堡大学* – 离子通道设计作为受体疗法治疗炎症性疼痛	
15:00-15:25	Coffee Break & Posters	茶歇&海报展示
15:30-15:55	**Van Lu** – *US National Institute of Health* - Utilizing an Scn10a-EGFP reporter mouse to study changes in Nav1.8 expression in peripheral sensory neurons and abnormal Nav1.8 expression in the central nervous system	
	Van Lu – *美国国立卫生研究所* – 利用Scn10a-EGFP受体小鼠研究外周感觉神经细胞中Nav1.8表达变化以及中枢神经系统中Nav1.8表达异常	
16:00-16:30	**Xinzhong Dong** - *Johns Hopkins University School of Medicine* – Tmem100 is a regulator of TRPA1-TRPV1 complex and contributes to persistent pain	
	Xinzhong Dong -*约翰·霍普金斯大学医学院* – TMEM 100对TRPA1-TRPV1复合体的调节作用以及持续性疼痛作用	
End	**Dong Liang** – *President & CEO, Aurora Biomed Inc.* – Closing Remarks	
	梁洞泉 — *欧罗拉生物科技董事长& 总裁* — 闭幕致辞	

Poster Program | 海报展示

1	**Jose Mercado** - *Kineta Inc* - Preclinical development of novel conesnail peptide-based analgesics that selectivelyinhibit the α9α10 nicotinic acetylcholine receptor
	Jose Mercado - *Kineta Inc* – 选择性抑制α9α10乙酰胆碱受体的新型Conesanil多肽型镇痛剂的临床前开发
2	**Kayla Norton** – *Kineta Inc* – Kv1.3 channel blocker Dalazatide: a potential novel therapeutic for ANCA vasculitis and lupus nephritis
	Kayla Norton – *Kineta Inc* – Kv1.3离子通道阻断剂Dalazatide：一种潜在的新型ANCA血管炎和狼仓型肾炎治疗药物
3	**Guang-Yin Xu** – *Soochow University* – Promoted interaction of nuclear factor-kappa B with demethylated purinergic P2X3 receptor gene contributes to diabetic neuropathic pain in rats
	徐广银 – *苏州大学* – 核转录因子κB与脱甲嘌呤P2X3受体基因的协同作用导致大鼠的糖尿病性疼痛
4	**Xiaona Du** – *Hebei Medical University* – Controlling somatic resting membrane potential of nociceptive neurons as targ
	Xiaona Du – *河北医科大学* – 控制伤害感受性神经元体细胞静息电位作为疼痛治疗靶点
5	**Ari Alexandrou** – *Neusentis (Pfizer)* – Investigating the role of Nav1.7 using native human neuronal cultures
	Ari Alexandrou – *Neusentis (辉瑞)* – 借助本土人种神经细胞培养研究Nav1.7作用
6	**Nathan Zahler** – *XRPro* – Label-free, High Throughput Ion Channel & Transporter Assays: Case Studies for TRPA1 & Nonelectrogenic Transporters
	Nathan Zahler – *XRPro* – 去标签化高通量离子通道&转运载体蛋白分析：TRPA1 & 非电生的转运载体案例研究
7	**Paul Li** – *Simon Fraser University* – Integrated Microfluidic Device for Drug Accumulation Measurement on a Single MDR Transporter-expressing Prostate Cancer Cell Isolated among Blood Cells
	Paul Li – *西蒙菲莎大学* – 整合微流体装置测量在血细胞中分离的前列腺癌细胞表达的单一MDR转运载体中的药物累积
8	**Yang Li** – *Institute of Geriatric Cardiology, General Hospital of Chinese People's Liberation Army* – Age-Related Cellular Electrophysiological Change and Arrhythmias in Homozygous R33Q Calsequestrin Knock-in Mouse Model
	Yang Li – *中国人民解放军总医院，老年心脏病研究所* – 同源性R33Q集钙蛋白转入的小鼠模型中年龄相关的细胞电生理变化和心律失常研究
9	**Martin Wong** – *Maxcyte* – Simple and Effective Generation of Cell-based Assays for the Efficient Screening of Drug Candidates in Biologically Relevant Cells Using Scalable Transient Transfection
	Martin Wong – *Maxcyte* –利用可控瞬时转染相关生物细胞实现简单有效细胞分析筛选药物候选物
10	**Irene Gregan** – *Merck* – New Method of Batch Processing PatchXpress Data to Support Nav 1.7 Program
	Irene Gregan – *默沙东制药* – 适用Nav1.7研究的PatchXpress数据新批处理方法
11	**Beiyan Zou** – *Molecular Devices* – A comparison of cell-based thallium-sensitive fluorescence assay with automated electrophysiology: In vitro potency evaluation of hERG inhibitors
	Beiyan Zou – *美谷分子* – 铊灵敏的细胞荧光分析与自动电生理方法比较：体外hERG阻滞剂的效能评估
12	**Marc Rogers** – *Metrion Biosciences* – Optimising a difficult Nav1.8 cell line assay for automated patch clamp screening
	Marc Rogers – *Metrion Biosciences* – 应用于自动膜片钳筛选的Nav1.8细胞株的优化
13	**Kaylee Magee** – *Simon Fraser University* – HCN channel C-terminal region speeds activation rates independently of au
	Kaylee Magee – *西蒙莎菲大学* – HCN通道C末端基团加快自动抑制的激活速率
14	**Wei Zou** – *College of Life Science Liaoning Normal University* – Kv1.5 gene knockdown inhibits PI3K/Akt signaling through caveolin-1-dependent pathway in human mammary epithelial cells: a role in cell proliferation
	Wei Zou – *辽宁师范大学生命科学学院* – Kv1.5基因敲除通过人乳腺表皮细胞中微囊蛋白-1-依赖通路抑制PI3K/Akt信号：细胞增殖中的作用
15	**Ghérici Hassaine** – *Theranyx* – Binder generation against membrane proteins
	Ghérici Hassaine – *Theranyx* – 黏合形成对抗膜蛋白
16	**Shawna Stanwood** – *University British Columbia* – The role of the P2X7 receptor in T lymphocytes
	Shawna Stanwood – *英属哥伦比亚大学* – 淋巴细胞中P2X7受体的作用