



# The 13<sup>th</sup> TALAS International Conference

**Advanced IACUC Training, Global Trends of Animal Welfare, Current IACUC Issues, Current Animal Models, Improving Care and Use of Research Animals and Animal Welfare by Responsible Science and Accreditation, Research Animal Facility Design Trends and Current HVAC Issues**

**June 26-28, 2019 (Wednesday to Friday)**

**\*\*All Presentations in English\*\***

**Location: Mayfair Grand Ballroom A  
Berkeley Hotel Pratunam, Bangkok, Thailand**

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**June 26, 2019 (Wednesday)**

**Advanced IACUC Training, Global Trends of Animal Welfare and Current IACUC Issues**

Announcer and Speaker Introduction: Dr. Kannika Siripattarapavat  
Ms. Waruja Korkijthamkul

08:00 – 08:30 **Registration**

08:30 – 09:00 **Welcome address by the TALAS President, Dr. Parntep Ratanakorn**  
**Opening remark by Dr. Nares Damrongchai**  
*CEO, Thailand Center of Excellence for Life Sciences (TCELS)*  
**Assist. Prof. Dr. Walasinee Moonarmart**  
*Dean, Faculty of Veterinary Science, Mahidol University*

09:00 – 09:20 **AFRIMS – TALAS Exemplary Laboratory Animal Technician Award Ceremony**  
MG Pramote Imwattana, MD  
*Director General, Royal Thai Army-Armed Forces Research Institute of Medical Sciences (RTA-AFRIMS)*

**Moderator:** Dr. Montip Gettayacamin, DVM, DAACLAM  
*Senior Director for Southeast Asia, AAALAC International*

09:20 – 09:30 **Group photo of all participants**

09:30 – 10:00 **Coffee/Tea/Snack Break and Visiting Exhibition**

10:00 – 10:30 **The Use of Animals in Science - a Global Perspective on Ethics and Animal Welfare**  
Mr. Barney Reed, BSc, MSc  
*Senior Scientific Manager, Research Animals Department*  
*Royal Society for the Prevention of Cruelty to Animals (RSPCA), UK*

**Moderator:** Dr. Parntep Ratanakorn, DVM, MSc

10:30 – 11:00 **Animal Care and Use Program Oversight and Monitoring – AAALAC International Expectation**

Dr. Gary Borkowski, DVM, MS, DAACLAM  
*Global Director, AAALAC International, USA*

**Moderator:** Dr. Parntep Ratanakorn, DVM, MSc

11:00 – 12:00 **Statistics Made Easy in Animal Experiments**  
Professor Dr. Yong-Meng Goh, DVM, PhD  
*Head, Department of Veterinary Preclinical Sciences*  
*Faculty of Veterinary Medicine, Universiti Putra Malaysia*

**Moderator:** Dr. Nattapon Panupinthu, MD, PhD  
*OHS advisor and IACUC Member, Faculty of Science, Mahidol University*

12:00 – 13:30 **Buffet Lunch and Visiting Exhibition**

13:30 – 14:15 **Improving Animal Welfare in the Care and use of Animals – Singapore Experience**  
Dr. Leslie Retnam, B.Vet.Sc., MLAS, MRCVS  
*Senior Associate Director, IACUC Office, National University of Singapore*

**Moderator:** Dr. Montip Gettayacamin, DVM, DAACLAM  
*Senior Director for Southeast Asia, AAALAC International*

14:15 – 15:00 **Improving Good Animal Welfare and Safety Practices in a Large Institution – Duke-NUS Experience**  
Dr. Viji Vijayan, MBBS, MSc, MD, RBM, MSc  
*Associate Professor,*  
*Assistant Dean, Safety, Health, Emergency, Research Integrity & Compliance and Central Procurement*  
*Director, Research Operations*  
*Duke-NUS Medical School, Singapore*

**Moderator:** Dr. Prof. Emeritus Dr. Nateetip Krishnamra, PhD  
*IACUC Chairperson, Faculty of Science, Mahidol University*

15:00 – 15:30 **Coffee/Tea/Snack Break and Visiting Exhibition**

15:30 – 16:00 **IACUC Protocol Challenges - Surgeon Training Using Large Animals**  
Dr. Bryan Ogden, DVM, DAACLAM  
*Director and Chief Veterinary Officer*  
*SingHealth Experimental Medicine Center, Singapore*

**Moderator:** Dr. Thattawan Kaewsakhorn, DVM, PhD  
*Director, Chiang Mai University Laboratory Animal Center*

16:00 – 16:30 **Achieving a Good 'Culture of Care'**  
Mr. Barney Reed, BSc, MSc  
*Senior Scientific Manager, Research Animals Department*  
*Royal Society for the Prevention of Cruelty to Animals (RSPCA), UK*

**Moderator:** Dr. Hou-Chun Chen, PhD  
*Advisor, Central Animal Facility, Faculty of Science, Mahidol University*  
*AAALAC International ad hoc Specialist*

16:30 – 17:00 **Coping with Compassion Fatigue**  
Dr. Gary Borkowski, DVM, MS, DAACLAM  
*Global Director, AAALAC International, USA*

**Moderator:** Dr. Nattapon Panupinthu, MD, PhD  
*OHS advisor and IACUC Member, Faculty of Science, Mahidol University*

**June 27, 2019 (Thursday)**

**Current Animal Models, Improving Care and Use of Research Animals and Animal Welfare by Responsible Science and Accreditation**

Announcer and Speaker Introduction: Dr. Kannika Siripattarapavat  
Ms. Waruja Korkijthamkul

08:00 – 08:30 **Registration**

08:30 – 09:00 **Transcriptomic Analysis of Aortic Dendritic Cells and Macrophages in Mouse Atherosclerosis Model**

Dr. Jae-Hoon Choi, DVM, MS, PhD

Professor, *Department of Life Science, College of Natural Sciences  
Hanyang University, Seoul, Republic of Korea*

**Moderator:** Dr. Hou-Chun Chen, PhD

*Advisor, Central Animal Facility, Faculty of Science, Mahidol University  
AAALAC International ad hoc Specialist*

09:00 – 10:00 **Keynote Topic: AAALAC International Exit Briefing Issues - Trend data at global level and Pac Rim region**

Dr. Gary Borkowski, DVM, MS, DACLAM

*Global Director, AAALAC International, USA*

**Moderator:** Dr. Montip Gettayacamin, DVM, DACLAM

*Senior Director for Southeast Asia, AAALAC International*

10:00 – 10:30 **Coffee/Tea/Snack Break and Visiting Exhibition**

10:30 – 11:15 **When to Consider Minipigs as an Animal Model? – Current Trends**

Dr. Lars Friis Mikkelsen, DVM, MLAS, EMBA

*CEO, Ellegaard Göttingen Minipigs, Dalmose, Denmark*

**Moderator:** Dr. Thattawan Kaewsakhorn, DVM, PhD

*Director, Chiang Mai University Laboratory Animal Center*

11:15 – 12:00 **Brain-machine Interfaces in Multi-species: A Neural Prosthesis for the Restoration of Hand Dexterity**

Dr. Kai Voges, PhD

*Research Fellow, National University of Singapore, Singapore*

**Moderator:** Dr. Hou-Chun Chen, PhD

*Advisor, Central Animal Facility, Faculty of Science, Mahidol University  
AAALAC International ad hoc Specialist*

12:00 – 12:30 **Sponsored Topic by Tecniplast and NYR: How to choose IVC cages – Design Variables and Essential Features**

Mr. Carlo Demaldé, BE (Mechanical Engineering)

*Regional Sales Manager for South East Asia/MEA/Eastern Europe, Tecniplast, Italy*

**Moderator:** Dr. Thattawan Kaewsakhorn, DVM, PhD

*Director, Chiang Mai University Laboratory Animal Center*

12:30 – 13:30 **Buffet Lunch and Visiting Exhibition**

13:30 – 14:30 **Cutting-edge Embryonic Engineering Technology for Transgenic Mouse Colony and Transgenic Mouse Colony Management**

Dr. Yao Li, PhD, DVM, RLATG  
*Deputy Director, Department of Laboratory Animal Science  
School of Medicine, Shanghai Jiao Tong University*

**Moderator:** Dr. Thattawan Kaewsakhorn, DVM, PhD  
*Director, Chiang Mai University Laboratory Animal Center*

14:30 – 15:30 **Surgical Models and Animal Welfare Considerations**

Dr. Susan Vogel, DVM, MSc., DACVS-LA  
*Attending Veterinarian, Director, Laboratory Animal Medicine and Surgery  
Charles River Safety Assessment Canada, Canada*

**Moderator:** Dr. Montip Gettayacamin, DVM, DACLAM  
*Senior Director for Southeast Asia, AAALAC International*

15:30 – 16 .00 **Coffee/Tea/Snack Break and Visiting Exhibition**

16:00 – 17:00 **Minimally Anesthetized Model (MAM) for Nociception (pain) Studies**

Professor Dr. Yong-Meng Goh, DVM, PhD  
*Head, Department of Veterinary Preclinical Sciences  
Faculty of Veterinary Medicine, Universiti Putra Malaysia*

**Moderator:** Dr. Gary Borkowski, DVM, MS, DACLAM  
*Global Director, AAALAC International, USA*

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**June 28, 2019 (Friday)**

**Research Animal Facility Design Trends and Current HVAC Issues**

Announcer and Speaker Introduction: Dr. Kannika Siripattarapivat  
Ms. Waruja Korkijthamkul

08:00 – 09:00 **Registration**

09:00 – 10:30 **Research Animal Facilities Design – Basic Concepts and Current Trends for Operational Function and Energy Efficiency**

Mr. Dennis Tan, B. Arch (Hons)  
*Director, Business Development, ITS Group, Singapore*

**Moderator:** Dr. Montip Gettayacamin, DVM, DACLAM  
*Senior Director for Southeast Asia, AAALAC International*

10:30 – 11:00 **Coffee/Tea/Snack Break and Visiting Exhibition**

11:00 – 12:00 **The Large Animal Center of Singapore – Challenges and Progress**

Dr. Bryan Ogden, DVM, DACLAM  
*Director and Chief Veterinary Officer, SingHealth Experimental Medical Centre, Singapore*

**Moderator:** Dr. Thattawan Kaewsakhorn, DVM, PhD  
*Director, Chiang Mai University Laboratory Animal Center*

12:00 – 13:30 **Buffet Lunch and Visiting Exhibition**

13:30 – 15:00 **Special Panel Discussion: Heating, Ventilating and Air-condition (HVAC) – Basic and Maintenance.**

(Thai translation summary will be provided for Thai audiences)

**What are the HVAC requirements for common research animal facilities design? (30 min)**

Mr. Dennis Tan, B. Arch (Hons)

*Director, Business Development, ITS Group, Singapore*

**What are unique HVAC system designs for research animal facilities? (40 min)**

Assistant Professor Yottana Khunatorn

*Deputy Director, Energy Research and Development Nakornping Institute, Chiang Mai University*

**Q&A (20 min): All speakers**

**Moderator:** Mr. Eakkapob Srichamnan, BE, LATG

*Facility Quality Assurance Engineer, U. S. Army Medical Directorate, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand*

Dr. Montip Gettayacamin, DVM, DAACLAM

*Senior Director for Southeast Asia, AAALAC International*

15:00 – 15:30 **Coffee/Tea/Snack Break and Visiting Exhibition**

15:30 – 16:30 **Day-to-day HVAC Operations and Preventive Maintenance Plan Example** (Presentation in English, 20 min)

Mr. Eakkapob Srichamnan, BE, LATG

*Facility Quality Assurance Engineer, U. S. Army Medical Directorate, Armed Forces Research Institute of Medical Sciences (USAMD-AFRIMS), Bangkok, Thailand*

*(AAALAC International accredited since 1999)*

**Day-to-day HVAC Operations and Preventive Maintenance Plan Example** (Presentation in Thai, 20 min)

Acting Sub Lt. Sarayut Yumvilai, BE

*Engineer, Chiang Mai University Laboratory Animal Center, Chiang Mai, Thailand (AAALAC International accredited since 2015)*

**Q&A (20 min): All speakers**

**Moderator:** Mr. Eakkapob Srichamnan

Dr. Montip Gettayacamin, DVM, DAACLAM

*Senior Director for Southeast Asia, AAALAC International*

16:30 – 17:00 **Poster Award Presentation**

**Annual TALAS General Assembly Meeting** (TALAS members)

Moderator: Dr. Wantanee Ratanasak, *Secretariat, TALAS*

17:00 – 17:15 **Closing Remark**

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