

## GLOBAL APPROACH TO UNDERSTANDING ACARINE DEVELOPMENT AND REPRODUCTION: IMPACT OF NEW NUCLEIC ACID TECHNOLOGIES

(25 August, 09h00-12h00, Room 2)

**Chairpersons:** Daniel E. Sonenshine (North Carolina State University, Raleigh-NC, USA) / R. Michael Roe (Department of Biological Sciences, Old Dominion University, Norfolk-VA, USA) / Lewis B. Coons (The University of Memphis, Memphis-TN, USA)

### 09h00-09h05: INTRODUCTORY REMARKS – GOAL OF SYMPOSIUM

**R. Michael Roe** - North Carolina State University, Raleigh-NC, USA

### 09h05–09h25: EXPLORING THE TICK NEUROME: INSIGHTS FROM THE *Ixodes scapularis* GENOME

C.A. Hill, J.M. Meyer, K.F. Ejendal, V.J. Watts & the *Ixodes* Genome Sequencing Consortium

**Speaker:** Catherine A. Hill - Department of Entomology, Purdue University, West Lafayette-IN, USA

### 09h25–09h45: A POPULATION GENOMICS VIEW OF PLANT/MITE INTERACTIONS

M. Navajas, M. Grbic & R. Clark

**Speaker:** Maria Navajas - Institut National de la Recherche Agronomique, Montferrier-sur-Lez, France

### 09h45–10h05: ANALYSIS OF THE TICK KININ RECEPTOR FUNCTION THROUGH STRUCTURE-ACTIVITY RELATIONSHIPS OF KININ PEPTIDOMIMETICS, AND RNAI AND IMMUNOHISTOCHEMISTRY IN FEMALES OF *Rhipicephalus microplus* (ACARI: IXODIDAE)

P.V. Pietrantonio, C. Almazan, D. Carreon-Camacho, R.J. Nachman & H.-L. Lu

**Speaker:** Patricia Victoria Pietrantonio - Department of Entomology, Texas A&M University, College Station-TX, USA

### 10h05–10h30: REGULATION OF HOST WOUND HEALING CELLS BY TICK SALIVA

C.D. Kramer, N. Poole, L.B. Coons & J.A. Cole

**Speaker:** Lewis B. Coons - The University of Memphis, Memphis-TN, USA

10h30–10h45: Coffee Break

### 10h45–11h05: IDENTIFICATION AND FUNCTION OF NEUROENDOCRINE NETWORKS IN TICKS

D. Zitnan, L. Šimo, L. Roller, S. Havlíková, M. Slovák & Y. Park

**Speaker:** Dusan Zitnan - Institute of Zoology, SAV, Dúbravská, Bratislava, Slovakia

### 11h05–11h25: HORMONAL REGULATION OF REPRODUCTION IN ACARINES: TICKS VERSUS INSECTS

R.M. Roe, D.E. Sonenshine, S.M.S. Khalil, K.V. Donohue, C.M. Grozinger & B.W. Bissinger

**Speaker:** R. Michael Roe - North Carolina State University, Raleigh-NC, USA

### 11h25–11h45: TRANSCRIPTOME OF MALE TICK ACCESSORY GLAND/TESTIS AND POSSIBLE ROLE IN REGULATING FEMALE REPRODUCTION IN THE IXODID TICK *Dermacentor variabilis*

D.E. Sonenshine, N. Egekwu, K.V. Donohue, S.M.S. Khalil & R.M. Roe

**Speaker:** Daniel E. Sonenshine - Old Dominion University, Norfolk-VA, USA

### 11h45–12h00: DISCUSSION - SUMMARY REMARKS AND PROSPECTS FOR FUTURE RESEARCH

**R. Michael Roe** - North Carolina State University, Raleigh-NC, USA / **Daniel E. Sonenshine** - Department of Biological Sciences, Old Dominion University, Norfolk-VA, USA / **Lewis B. Coons** - The University of Memphis, Memphis-TN, USA