

**SECTION 11****Physiology & Biochemistry**

CONVENORS: Frances Duncan (RSA) and Laura Fielden (USA)

**07 July 2008**

SESSION NO. 2

Symposium Reference No	11.01	<b>It's not the heat – it's the humidity? Challenges and tradeoffs in insect respiration</b>	Room No:	MR 21G
Symposium Organisers:		Thorsten Burmester (Germany) & Stefan Hetz (Germany)		

Order	Start	Abstract No.	Presentation Title	Presenting Author
1	09:00	1391	<b>Ecophysiology of respiration in dung beetles – a comparative study</b> Authors Frances Duncan	Frances Duncan
2	09:30	2258	<b>Regulation of humidity in honeybee hives</b> Authors Michael B Ellis Sue W Nicolson Robin M Crewe	Michael B Ellis
3	09:45	908	<b>Reduction of respiration by aggregate formation in <i>Parastrachia japonensis</i></b> Authors Sumio Tojo Lisa Filippi	Sumio Tojo
4	10:00	958	<b>Functionally-linked ultrastructural changes in the water vapour absorptive epithelium of the firebrat, <i>Thermobia domestica</i> (Packard), during development and the moulting cycle</b> Authors John Noble-Nesbitt	John Noble-Nesbitt
5	10:15	1703	<b>Oxygen-water tradeoffs in eggs of <i>Manduca sexta</i></b> Authors H. Arthur Woods	H. Arthur Woods

SESSION NO. 3

Symposium Reference No	11.09	<b>Tea Break</b>	Room No:	Hall 3ABC
Symposium Organisers:				

Order	Start	Abstract No.	Presentation Title	Presenting Author
0	10:30	0	<b>Tea Break</b> Authors	Tea Break

SESSION NO. 4

Symposium Reference No	11.01	<b>It's not the heat – it's the humidity? Challenges and tradeoffs in insect respiration</b>	Room No:	MR 21G
Symposium Organisers:		Thorsten Burmester (Germany) & Stefan Hetz (Germany)		

Order	Start	Abstract No.	Presentation Title	Presenting Author
6	11:00	3243	<b>Globins in <i>Drosophila</i>: Oxygen carrier, ROS detoxifier or else? □</b> Authors Thomas Hankeln Eva Gleixner Stefan Zimmerling	Thorsten Burmester
7	11:15	3542	<b>Globins in <i>Drosophila</i>: oxygen carrier, ROS detoxifier or else, contd.</b> Authors Thomas Hankeln Eva Gleixner Stefan Zimmerling	Thorsten Burmester
8	11:30	2128	<b>Insects with blue blood: On the occurrence of respiratory hemocyanins</b> Authors Thorsten Burmester Christian Pick	Thorsten Burmester
9	11:45	1905	<b><i>Drosophila</i> tracheal cells can sense hypoxia and induce terminal branch sprouting</b> Authors L Centanin A Dekanty NM Romero	TA Gorr
10	12:00	727	<b>The role of haemoglobin in diving insects</b> Authors Philip Matthews	Philip Matthews

SESSION NO. 5

Symposium Reference No	11.021	<b>Lunch Break &amp; Posters</b>	Room No:	Hall 3ABC
Symposium Organisers:				

Order	Start	Abstract No.	Presentation Title	Presenting Author
0	12:30	0	<b>Lunch Break &amp; Posters</b> Authors	Lunch Break & Posters

SESSION NO. 6

Symposium Reference No	11.01	<b>It's not the heat – it's the humidity? Challenges and tradeoffs in insect respiration</b>	Room No:	MR 21G
Symposium Organisers:		Thorsten Burmester (Germany) & Stefan Hetz (Germany)		

Order	Start	Abstract No.	Presentation Title	Presenting Author
11	14:00	3150	<b>Does atmospheric oxygen limit insect size? Effects of oxygen on insect growth and tracheal morphology</b> Authors Jon Harrison C Jaco Klok John VandenBrooks	C J Klok

12	14:30	3055	<b>Critical oxygen responses in <i>Drosophila melanogaster</i> reared in hypoxia or hyperoxia</b> Authors C Jaco Klok Jon F Harrison	C Jaco Klok
13	14:45	2112	<b>Transitions between respiratory patterns in sedentary insects is dependent on metabolic rates: A look into the respiratory patterns of <i>Rhodnius prolixus</i> and <i>Gromphadorhina portentosa</i></b> Authors Heidy Contreras	Heidy Contreras
14	15:00	3065	<b>Respiration under high metabolic load in <i>Rhodnius</i></b> Authors Timothy Bradley	Timothy Bradley

SESSION NO. 7

Symposium Reference No **11.016** **Tea Break** Room No: Hall 3ABC  
Symposium Organisers:

Order	Start	Abstract No.	Presentation Title	Presenting Author
0	15:30	0	<b>Tea Break</b> Authors	Tea Break

SESSION NO. 8

Symposium Reference No **11.01** **It's not the heat – it's the humidity? Challenges and tradeoffs in insect respiration** Room No: MR 21G  
Symposium Organisers: Thorsten Burmester (Germany) & Stefan Hetz (Germany)

Order	Start	Abstract No.	Presentation Title	Presenting Author
16	16:00	1500	<b>Spiracular fluttering is not a steady state behaviour</b> Authors Thomas D. Förster Stefan K. Hetz	Thomas D. Förster
17	16:15	1576	<b>Is DGC a result of a mismatch between spiracular conductance and metabolic demand?</b> Authors Stefan K. Hetz Thomas D. Förster	Stefan K. Hetz

08 October 2008