First-Round Announcement

The Second International Symposium on Insect Midgut Biology

September 24-28, 2012

South China Normal University, Guangzhou, China

Symposium website: http://insectmidgut2012.csp.escience.cn/dct/page/1

General Information

Four years ago, the First Symposium on Insect Midgut Biology was held in Guangzhou, China, from April 7-11, 2008. Since then significant and exciting progress has been made in the physiology, biochemistry, molecular biology, genomics and proteomics of the insect midgut. We will, therefore, organize the Second International Symposium on Insect Midgut Biology to bring together researchers from all over the world to meet, exchange and discuss research progress and discoveries in *Drosophila*, mosquitoes, the silkworm, agricultural pests and other insects. The meeting will broadly cover the research areas in insect midgut biology in six themes: 1) midgut stem cells and *in vitro* systems; 2) midgut structure, physiology and molecular biology; 3) interactions of the insect midgut with plants; 4) interactions of the insect midgut with pathogens; 5) midgut functional genomics; 6) midgut proteomics; and. We believe this second symposium will benefit the research community in exchange of ideas and insights of insect midgut biology.

The second symposium will be held at South China Normal University, Guangzhou, China, from September 24-28, 2012. It is organized by SCNU and co-organized by Cornell University, The Entomological Society of China (ESC), Entomology Institute of Sun Yat-Sen University, Southwest University and South China Agricultural University.

We cordially invite you to join us and present your new discoveries in the coming symposium.

Organizing Committee

International Organizing Committee

Michael Adang, Department of Entomology, Biochemistry and Molecular Biology, Georgia University, USA

Gary Blissard, Research Boyce Thompson Institute, Cornell University, USA

Alejandra Bravo, Instituto de Biotecnología, Universidad Nacional Autónoma de México, Mexico.

Gary Felton, Department of Entomology, Pennsylvania State University, USA

Qili Feng, School of Life Sciences, South China Normal University, Guangzhou, China

David Heckel, Max Planck Institute for Chemical Ecology, German

Marcelo Jacobs-Lorena, School of Public Health, Johns Hopkins University, USA

Juan Luis Jurat-Fuentes, University of Tennessee, USA

Benjamin Ohlstein, Columbia University, New York, USA

Reddy Palli, Department of Entomology, University of Kentucky, USA

Guy Smagghe, Agriculture and Applied Biology Center, Ghent University, Belgium

Walter Terra, Departamento de Bioquimica, Instituto de Quimica, University of Sao Paulo, Brazil.

Keyan Zhu-Salzman, Texas A&M University, USA

Kun-Yan Zhu, Kansas State University, USA.

Ping Wang, Department of Entomology, Cornell University, Geneva, NY, USA

Local Organizing Committee

Yang Cao, Department of Sericulture, South China Agricultural University

Zhihong Hu, Wuhan Institute of Virology, Chinese Academy of Sciences

Yongping Huang, Shanghai Institute of Plant Physiology and Ecology, Chinese Academy of Sciences

Sheng Li, Shanghai Institute of Plant Physiology and Ecology, Chinese Academy of Sciences

Qingyou Xia, Southwest University

Weihua Xu, State Key Laboratory for Biocontrol, Zhongshan University

Chen-Zhu Wang, Institute of Zoology, Chinese Academy of Sciences

Xiaojing Wang, School of Life Sciences, South China Normal University

Yidong Wu, Department of Entomology, College of Plant Protection, Nanjing Agricultural University

General Program

	Morning (8:30-12:00)	Afternoon (2:30-6:00)	Evening (8:00- 10:00)
September 24 Monday	Registration	Registration and pre-meeting city tour	Welcome reception
September 25 Tuesday	Session I: Midgut stem cells and <i>in vitro</i> systems	Session II: Midgut structure, physiology and molecular biology	Pearl River night tour
September 26 Wednesday	Session III: Interactions of the insect midgut with plants	Session IV: Interactions of the insect midgut with pathogens	Poster session
September 27 Thursday	Session V: Midgut functional genomics	Session VI: Midgut proteomics	Farewell banquet
September 28 Friday	Post m		

Meeting Program

Tuesday, September 25, morning

Session I: Midgut stem cells and <i>in vitro</i> systems							
Time	Presentation title	Speaker	Affiliation	Chair			
08:30- 09:00	(TBA)	Juan Luis Jurat-Fuentes,	University of Tennessee, USA				
09:00- 09:30	Endocrine regulation of <i>Drosophila</i> midgut homeostasis	Benjamin Ohlstein	Columbia University, Medical Centre, USA	Ping Wang			
09:30- 10:00	(TBA)	Guy Smagghe	Ghent University, Belgium,				
10:00- 10:15	Coffee break						
10:15- 10:35	20 min presentation			Juon Luis			
10:35- 10:55	20 min presentation			Jurat-			
10:55- 11:05	10 min presentation			ruentes			
11:05- 11:15	10 min presentation						
11:15- 11:25	10 min presentation			Alejandra Bravo			
11:25- 11:35	10 min presentation						
11:35-	10 min presentation						

11:45			
11:45- 11:55	10 min presentation		
11:55- 12:05	10 min presentation		

Tuesday, September 25, afternoon

	Session II: Midgut Structure, Physiology and Molecular Biology							
Time	Presentation title	Speaker	Affiliation	Chair				
2:30- 3:00	Regulation of intestinal stem cells proliferation and differentiation in the midgut of <i>Tribolium</i> <i>castaneum</i>	Reddy Palli	University of Kentucky, USA	David				
3:00- 3:30	(TBA)	Walter Terra	University of Sao Paulo, Brazil	пескеі				
3:30- 4:00	The mosquito midgut and malaria transmission	Marcelo Jacobs-Lorena	Johns Hopkins University, USA					
4:00- 4:15	Coffee Break							
4:15- 4:35	Midgut metabolism during metamorphosis in Spodoptera litura	Lihua Huang	South China Normal University, China					
4:35- 4:55	20 min presentation			Keyan Zhu-				
4:55- 5:05	10 min presentation			Salzman				
5:05- 5:15	10 min presentation							
5:15- 5:25	10 min presentation							
5:25- 5:35	10 min presentation			Kun-Yan				
5:35- 5:45	10 min presentation			Zhu				
5:45- 5:55	10 min presentation							

Wednesday, September 26, morning

Session III: Interactions of the insect midgut with plants							
Time	Presentation title	Speaker	Affiliation	Chair			
08:30- 09:00	(TBA)	Gary Felton	Pennsylvania State University, USA	Reddy Palli			
09:00- 09:30	Counter-defense regulation in insect midgut	Keyan Zhu-Salzman	Texas A&M University, USA				

09:30- 10:00	(TBA)		
10:00- 10:15	Coffee break		
10:15- 10:35	20 min presentation		Benjamin
10:35- 10:55	20 min presentation		Ohlstein
10:55- 11:05	10 min presentation		
11:05- 11:15	10 min presentation		
11:15- 11:25	10 min presentation		
11:25- 11:35	10 min presentation		
11:35- 11:45	10 min presentation		Guy Smagghe
11:45- 11:55	10 min presentation		
11:55- 12:05	10 min presentation		

Wednesday, September 26, afternoon

	Session IV: Interactions of the insect midgut and pathogens						
Time	Presentation title	Speaker	Affiliation	Chair			
2:30- 3:00	(TBA)	Gary Blissard	Research Boyce Thompson Institute, Cornell University, USA				
3:00- 3:30	(TBA)	Alejandra Bravo	Instituto de Biotecnología, Universidad Nacional Autónoma de México, Mexico	Gary			
3:30- 4:00	(TBA)	Zhihong Hu	Wuhan Institute of Virology, Chinese Academy of Sciences, China	Felton			
4:00- 4:30	Pea enation mosaic virus- pea aphid gut interactions and associated technologies	Bryony Bonning	Department of Entomology Iowa State University, USA				
4:30- 4:45	Coffee Break						
4:45- 5:05	Role of the cadherin receptor in the mode of action of Bt Cry1Ac toxin in cotton bollworm	Yidong Wu	Department of Entomology, College of Plant Protection, Nanjing Agricultural University, China	Zhihong Hu			
5:05- 5:25	20 min presentation						

5:25- 5:35	10 min presentation		
5:35- 5:45	10 min presentation		Qingyou
5:45- 5:55	10 min presentation		Xia
5:55- 6:05	10 min presentation		

Thursday, September 27, morning

Session V: Midgut functional genomics						
Time	Presentation title	Speaker	Affiliation	Chair		
08:30- 09:00	(TBA)	David Heckel	Max Planck Institute for Chemical Ecology, German			
09:00- 09:30	(TBA)	Qingyu Xia	Southwest University, China	Oili		
09:30- 10:00	Transcriptome analysis revealed midgut-specific genes involved in Bt toxicity and larval development in the European corn borer	Kun-Yan Zhu	Kansas State University, USA	Feng		
10:00- 10:15	Coffee break					
10:15- 10:35	20 min presentation					
10:35- 10:55	20 min presentation			Gary		
10:55- 11:05	10 min presentation			DIISSalu		
11:05- 11:15	10 min presentation					
11:15- 11:25	10 min presentation					
11:25- 11:35	10 min presentation					
11:35- 11:45	10 min presentation					
11:45- 11:55	10 min presentation					
11:55- 12:05	10 min presentation					

Thursday, September 27, afternoon

Session VI: Midgut proteomics					
Time	Presentation title	Speaker	Affiliation	Chair	

2:30- 3:00	(TBA)	Ping Wang	Cornell University, USA	Manaala
3:00- 3:30	Proteomics of the midgut of <i>Spodoptera litura</i>	Qili Feng	South China Normal University, China	Jacobs-
3:30- 4:00	(TBA)	Michael Adang	Georgia University, USA	Lorena
4:00- 4:15	Coffee Break			
4:15- 4:35	20 min presentation			
4:35- 4:55	20 min presentation			Michael
4:55- 5:05	10 min presentation			Adang
5:05- 5:15	10 min presentation			
5:15- 5:25	10 min presentation			
5:25- 5:35	10 min presentation			Alejandr
5:35- 5:45	10 min presentation			a Bravo
5:45- 5:55	10 min presentation			

Call for abstracts

Abstracts are called for oral and poster presentations. All abstracts will be organized into a booklet, which will be available to conferees at the beginning of the meeting. Abstracts are required for both oral and poster presentations. Please indicate the presentation type for your abstract. In case too many oral presentations are received, the committee will select oral presentations based on the quality and suitability of the abstracts.

All abstracts must be one A4 page (maximum), with 1 inch margins throughout, typed in Times New Roman font, size 12, as shown in the example below. The speaker or presenter of the abstract must be underlined. Abstracts must be submitted as formatted MS-Word compatible (.doc) files by electronic mail to Qili Feng at the address <u>qlfeng@scnu.edu.cn</u> before August 1, 2012.

All the posters will be kept on poster boards during the meeting. Poster boards are available in 2 (w) x 1.5 (h) m for posters during the meeting.

Abstract example

Molecular regulation of the pupa-specific expression of the wing cuticle protein gene *Bm*WCP4 by the transcription factors BmBR-C Z4 and BmPOUM2 in the silkworm, *Bombyx mori*

Huimin Deng¹, Sichun Zheng¹, Jialing Zhang¹, Yong Li¹, Weihua Xu², Qili Feng¹*

¹Guangdong Provincial Key Lab of Biotechnology forPlant Development, School of Life Sciences, South China Normal University, Guangzhou, China; ²State Key Laboratory of Biocontrol and School of Life Sciences, Sun Yat-Sen University, Guangzhou, China.

*Corresponding author: qlfeng@scnu.edu.cn

It was demonstrated that 20-hydroxyecdysone (20E)-induced expression of the wing disc cuticle protein gene BmWCP4 in Bombyx mori was mediated by the transcription factors BmPOUM2 and BmBFTZ-F1 binding to their cis-response elements (CREs) of the BmWCP4 gene in Bombyx mori (Deng et al., Insect Mol. Biol., 2011, 20:45-60). However, what regulates *Bm*POUM2 expression in the 20E signal transduction pathway and how BmPOUM2 regulates the pupal stage-specific expression of BmWCP4 remain to be elucidated. In this study, a 717 bp cDNA encoding a POUM2 short isoform (BmPOUM2-S) and a 1,059 bp cDNA encoding a POUM2 long isoform (BmPOUM2-L) were cloned and identified from B. mori. Compared to BmPOUM2-L, BmPOUM2-S missed a 115-amino acid sequence that includes a POU-homeodomain and a nuclear localization signal peptide. Subcellular localization of BmPOUM2 revealed that BmPOUM2-L protein located in the nuclei and BmPOUM2-S protein located in the cytoplasm. EMSA analysis showed that recombinant BmPOUM2-L protein specifically bound to the POU-CRE of the BmWCP4 gene, whereas the recombinant BmPOUM2-S protein could not. RT-PCR and western blot analyses indicated that BmPOUM2-L had higher mRNA expression levels in the wing discs during the pre-pupal and mid-pupal stages, while *BmPOUM2-S* had constitutive expression levels with relatively higher expression during larval and adult stages. 20E induced the expression of *BmPOUM2-L* both in the transcript and protein levels, whereas the expression of *BmPOUM2-S* was not induced by 20E. Expression of BmPOUM2-L mRNA and protein were up-regulated and the promoter activity of the BmWCP4 gene was increased by over-expressing BmBR-C Z4 in BmN cells. All of these data taken together suggest that the transcription factor BmBR-C Z4 is an upstream regulatory factor of BmPOUM2-L that is involved in the regulation of *BmWCP4* in the 20E signal transduction pathway during metamorphosis of B. mori.

Registration

The registration deadline for the symposium is July 31, 2012.

You can register online or by e-mail by sending the filled <u>Registration Form</u> to us at qlfeng@scnu.edu.cn before the deadline.

Registration Form The 2 nd International Symposium on Insect Midgut Biology September 24-28, 2012, Guangzhou, China										
			opterin	Participa:	nt inform	ation				
First Name				Last Name					Male Female	
Affiliation										
Mailing										
Address										
Phone			Fax				E-ma	ail		
Passport No.			Arriv	al date			Depa date	arture		
Accompanying	Fir	st			Last N	lame			Male	
Person(1)	Na	ime							Female	
Accompanying	Fir	rst			Last N	lame			Male	
Person(2)	Na	ıme							Female	
*Accompanying accompanying w	per vith.	son can	only	register tog	ether wit	h the regular	partic	ipant wl	hom he/sh	e is
				Regist	ration fe	es				
			Pleas	se mark the	correspor	nding part(s).				
Category		Advan	ce R	egistration	Late Reg	gistration		On-site	e Registrat	ion
		(by Jul	y 31, 2	.012)	(after Ju	ly 31, 2012)				
Regular Particip	ant	US \$50	<u> </u>		US \$600			US \$65	50 🗆	
Student		US \$35	50 🗆		US \$400			US \$450 🗆		
Accompanying	g	US \$20	00 🗆		US \$250) 🗆		US \$3(□ 00	
Person(1)										
Accompanying Person(2)	g	US \$20	00 🗆		US \$250)		US \$3()0 🗆	
Total amount		US \$			US \$			US \$		
Registration fee	incl	ludes a f	inal p	rogram and	abstract	book, admis	sion to	all sess	sions, 5 d	lay's
meals (breakfast	t. lu	inch and	suppe	er) and ope	ning/clos	ing reception	s, cot	ffee and	l refreshm	ents
during the break	s. ar	nd a mee	ting ki	it. Students	(including	g BS, MS and	l PhD)	are requ	uired to set	nd a
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Special requirement										
	(including dietary requirement									
Vegetarian 🗆	I	Muslim			Indian		Ot	ther ()	
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#200/udy/100111)	Single room -	Doubla room -	No. of porcon (c)		
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¥360/day/room)					
Campus hotel	Room for three persons \Box				
(¥120/day/person					
)					
If you would like to	If you would like to share a room with someone, please indicate the name of the person.				
Social Programs					
1. Pre-meeting ci	ity Yes \Box	No 🗆	No. of person (s)		
tour (free)					
2. Pearl River nig	ght Yes □	No 🗆	No. of person (s)		
cruise (free)					
3. Post meeting to	our Yes 🗆	No 🗆	No. of person (s)		
(September 2	28,				
¥500/person, ho	tel				
and meals included	l)				
Total					
Payment information					
	(Two	choices)			
1.On –site paymer	nt				
You can pay your	registration fee on-site when	you arrive at the meetin	g, but you must fill up this		
form to arrange registration before your arrival. Only cash payment is accepted in this case.					
2. Wire Transfer	Payment				
Wire transfer can be made from the registrant's bank directly to the account below. All bank					
transfer charges should be paid by the registrants.					
Please wire transfer to:					
Bank name	Industrial and Commerc	Industrial and Commercial Bank of China, Guangdong Branch			
SWIFT PIC					
Account number	3602008109000386071	3602008109000386071			
Sender's name	5002008107000580071	50020001090005800/1			
Receiver's name	South China Normal Un	South China Normal University			
Pavable to:	The Second Internations	The Second International Symposium of Insect Midgut Biology SCNU			
Cancellation and Refund policy					
Any cancellation must be notified to the secretariat in written latter to Dr. Lin Liu. Diago refer to					
the following due dates for cancellation					
All refund will be made after the meeting. Bank and service charges will be deducted from the					
refunded amount					
refunded amount.					

Cancellation by July	80% of the total will be refu	nded.			
1,2012					
Cancellation by	50% of the total will be refunded.				
August 1, 2012					
Cancellation after	No refund will be made.				
September 1, 2012					
Please complete this form and return to					
Dr. Lin Liu, School of Life Sciences, South China Normal University, Guangzhou, Guangdong,					
China, 510631. Tel: +86-20-85210024; Fax: +86-20-85211371; email: Liul@scnu.edu.cn					
Secretariat use only	Approval No.	Approval Date	Registration No.		

Social programs

1. City tour before the meeting (Free)

This free city tour is arranged specially for those guests who arrive one day early before the meeting. The tour will bring the guests to visit the history places and natural scenery in the Guangzhou City.

2. Pearl River night cruise during the meeting (¥50/persion)

The Pearl River is the third largest river in China and the largest one in Guangdong. The Pearl River in Guangzhou City is picturesque, adorned by charming views along the river. A cruise along the Pearl River in Guangzhou City is a must for visitors to Guangzhou. The river has a long history and nourishes the civilization of south China. Today standing on the banks of the river are star-graded hotels and commercial buildings, White Swan Hotel, Hotel Landmark Canton, Nanfang Mansion, Aiqun Hotel, Guangzhou Hotel, Gitic Riverside Hotel, all like sky-scrappers. In the evening, both banks are lit brightly joined occasionally by the bright moon hanging in the sky. Full of passengers, pleasure boats for the Pearl River cruise travel from the west to the east elegantly on the river, like playing happy melodies all together. The cruise section from the White Goose Pool to Guangzhou Bridge is the highlight of the Pearl River cruise. Scenery along this part is so fascinating, with jade-coloured water, coloured lights on shore. During your cruise you can enjoy beautiful scenery with such romantic names as 'Night Moon over the Goose Pool", "Misty Rain over the Twin Bridge", "Red Heart of the Pearl River", "Autumn Moon over the Pearl River", "Clear Waves on the Pearl River" and many more.

3. Post meeting tour (To be announced)

Accommodations

All of the participants can stay in the hotels on or near the campus of South China Normal University

1. Huashi Yuehai Hotel (http://www.hsgdh.com/index.asp?language=en)



Huashi (GDH) Yuehai Hotel is a four-star hotel and located in the campus, where the symposium will be held. The hotel is invested by South China Normal University and now managed by Guangdong (International) Hotel Management Holdings Limited. Compromising over 70-year's culture of SCNU and the business principle of "where sincerity and courtesy meet" of GDH, Huashi (GDH) Hotel sets itself as a model in the beautiful city of Guangzhou. Huashi (GDH) Hotel aims to build itself into a distinctive one in the field of higher education with succinct decoration but academic atmosphere, enabling you to appreciate the unique culture of South China. The hotel lies in the prosperous area ---Zhongshan Avenue Tianhe District of Guangzhou, adjoined the biggest Tianhe book centre and Sports center in Guangdong Province, enjoying an extensive transportation network: By Guangyuan Expressway, Guangshan Road. The highway leading to peripheral cities, the airport and the railway station extends in all direction. (Standard room, single or double room: ¥280/day/room; Business room, single or double room: ¥360/day/room).

2. Campus hotel

This campus hotel is also good for students who would like to share with other two persons. ($\frac{120}{day}$)

Travel

Arrival in Guangzhou

Guangzhou is an international and modernized city. You can arrive in Guangzhou by direct flights to the Guangzhou Baiyun International Airport from many countries around the world. You also can arrive in Guangzhou though other Chinese cities, such as Beijing, Shanghai and Hong Kong, if you want.

From the airport to the campus of SCNU

There are airport express shuttle buses directly from the Guangzhou Baiyun International Airport to the SCUN campus, where the Huashi Yuehai Hotel locates. It will take amount 40 minutes in average from to the airport to the campus and it costs $\frac{1}{2}$ 23 yuan. There is one bus leaving every 30 minutes. Please look for the SCNU sign when you come out the arrival hall of the airport, our students will guide you to the express shuttle bus station.

You can also take a taxi directly from the airport to the Huashi Yuehai Hotel at the campus. It usually takes about 40 minutes and costs about $\frac{120}{120}$ yuan plus $\frac{120}{120}$ yuan of toll fee.

Arrival through Hong Kong

If you arrive in Guangzhou through Hong Kong, you can:

1. take a short connection flight (about 35 minutes) from Hong Kong to Guangzhou Baiyun International Airport;

2. take a train from Hong Kong Kowloon Train Station to Guangzhou East Train Station. There are more than 10 departures per day. The trip will take about 1 hour 40 minutes to Guangzhou. The fare is between \$180-\$230 (HK\$) depending on the schedules and seats. Please check the schedule price for the tickets and train (http://www.it3.kcrc.com/B2C/frmIndex.asp?strLang=Eng). From the Guangzhou East Train Station, you can take a taxi directly to the Huashi Yuehai Hotel at the campus. It usually takes only about 15 minutes and costs no more than ¥ 30 yuan.

Visa application

A valid passport and visa are required for traveling to China.

As soon as we receive and confirm your registration, we will send you an official invitation letter and related documents, with which you can apply a Chinese Visa at the Visa Offices of Embassy or Consulates General of the People's Republic of China in many cities of your countries. Please consult the Chinese Embassy or Consulate General in your country for visa application. All travelers should get in touch with the appropriate office well in advance to their scheduled trip.

Please check visa requirements that may apply to you with your travel agent before traveling

Facts for travelers

Electricity supply: 220v, 50 Hz AC

Time: Eight hours ahead of GMT. Check it out: <u>http://wwp.greenwichmeantime.com/</u>

Weather: Check it out: <u>http://weather.yahoo.com/forecast/chxx0037.html</u>

Currency: Chinese Yuan (CNY, or RMB). 1 USD = 6.6 CNY. (Currency converter: <u>http://www.xe.com/ucc/</u>)

South China Normal University

The campus of SCNU



For more information: <u>http://www.scnu.edu.cn/eweb/index.htm</u>

Guangzhou

Capital of the Guangdong Province, Guangzhou is the center of the province in terms of politics, economy, science, education and culture. Guangzhou lies in the southeast of Guangzhou Province and the north of the Pearl Delta. Facing the South China Sea and adjoining to Hong Kong and Macao, Guangzhou is the transportation pivot as well as the south gateway of China. Being the biggest city in South China, Guangzhou has other titles such as the City of Five Ram and the City of Spike.



Get more information from here http://www.lifeofguangzhou.com/