2013 KSMCB Exhibition & Sponsorship Prospectus

Korean
Society for
Molecular and
Cellular
Biology

International Conference of the Korean Society for Molecular and Cellular Biology

Oct. 9(Wed)-11(Fri), COEX, Seoul, Korea

Seminar: Conference Center Hall (3F-4F)
Exhibition & Poster Presentation: Hall C3-C4

KSMCB

CONTENTS

Invitation

International Conference of the
Korean Society for Molecular and Cellular Biology

Greetings to all of you,

The Korean Society for Molecular and Cellular Biology (KSMCB) has achieved continuous growth since its establishment in 1989 and currently holds about 3,000 certified members with Ph.D. degree who are leading researches and education in the fields such as basic life science and pharmaceutical science. More than 10,000 members in total including students, organizational and industrial entities are registered now. Our society operates 5 chapters including Pusan-Kyungnam Chapter, and also 16 sections including the RNA Section, as over 60% of entire members are involved in the activities of the Chapters and Sections. Such vigorous academic activities of the society reflect the dynamic shape of our society being specialized, professionalized and evolving as keeping with rapidly changing global advancement of life science technology.

Our society affirms to work even harder with deep sense of mission for the future industry and scientific advancement of the nation as a representative of life science area in Korea. I believe your company also has the same kind of mission and pride as you are taking big roles in the industrial sector. To ensure our country to lead the rapidly changing and competitive world, excellent human resources and highly cooperative relationship between academia and industry are essential. Thereby, our society would like to build a strong cooperative relationship with your company.

Our society will host the International Conference of the Korean Society for Molecular and Cellular Biology (KSMCB) 2013 at COEX during the period October 9-11. This conference is one of the largest academic conferences in life science field in Korea. These days, more than four thousand people participate and present more than 1,000 scientific posters at various sessions in the conference. I would like to encourage you to participate in this important conference as an exhibitor, a promoter or a sponsor so that you could have a venue to advertise your company's products and technology to the life science researchers.

I wish you a great success and I am looking forward to our continuous cooperations.

Thank you.

Hun-Taeg Chung, M.D., Ph.D.
President, KSMCB

Overview

International Conference of the
Korean Society for Molecular and Cellular Biology

Title	International Conference of the Korean Society for Molecular and Cellular Biology
Date	(Symposium) Oct. 9(Wed)-11(Fri) 09:00-18:00 (Exhibition & Poster Presentation) **Oct. 10(Thu)-11(Fri) 09:00-18:00**
Venue	Coex, Seoul Symposium: Conference Center Hall (3F-4F) Exhibition & Poster Presentation: Hall C3-C4 (3F)
Expected Participation	160 booths(about 100 companies) 4,000 attendees
Host	Korean Society for Molecular and Cellular Biology Tel. 02-568-4445, 4490, Fax. 02-558-0131 E-mail: home@ksmcb.or.kr URL: www.ksmcb.or.kr

Booth Fee

(Unit: KRW)

No. of Booths	Space Only	Shell Scheme
1 Booth	2,400,000	2,700,000
2 Booths	4,400,000	5,100,000
3 Booths	6,300,000	7,300,000
4 Booths	8,100,000	9,300,000
5 Booths	9,800,000	11,100,000
6 Booths	11,400,000	12,700,000

* If the booth is reserved in advance for 2014 exhibition
  1) Priorities will be given for choosing booth location
  2) Booth fee will be discounted (5%) for 2014 exhibition

Provided Items

Space Only	Shell Scheme
Space	Space+Frame
• Booth Size: 3m(W) x 2m(D) (*Limited Height is under 4m.) • 1 Table per booth (150cm(W) x 70cm(L)) • 2 Folding chairs per booth • 1.5Kw Electricity, 2 (220V)electrical outlets • Carpet (needle punch carpet)	• Booth Size: 3m(W) x 2m(D) x 2.5m(H) • 1 Table per booth (150cm(W) x 70cm(L)) • 2 Folding chairs per booth • 1.5Kw Electricity, 2 (220V)electrical outlets • 3 Spot-light(100W), 1 light(40W) • 1 Company Name • 1 Information Desk per booth

* You should prepare your own table cover and multi-outlet.
* The sharing of booth space is strictly prohibited.

Overview

International Conference of the
Korean Society for Molecular and Cellular Biology

Options

(Unit: KRW)

Item	Contents	Fee
Barcode Reader	Computational input system for customer management. The customer information in Excel files will be delivered within 2 weeks after the Exhibition	One reader is free (100,000 for each additional reader)
LAN	LAN outlet for the internet use (Accessibility to wireless internet for the handheld smart devices should be checked in advance.)	70,000(Wireless)
		28,000(LAN)
Electricity	Additional electric capacity is available at the given rate	15,000/Kw
Logo	Company logo in the banner will be provided for the shell scheme booth	40,000/unit

Installation & Dismantling

Exhibit Hall Hours	Oct. 10(Thu)-11(Fri) 09:00-18:00
Exhibit Hall Installation	Oct. 9(Wed) ***Space Only Booth:** 09:00-19:00/**Shell Scheme Booth:** 16:00-19:00
Exhibit Hall Dismantling	Oct. 11(Fri) 18:00-22:00

Application Procedure

Online
By Aug 30, 2013

↓

1st Installment
May 31, 2013
(50% of total amount)

↓

Final Installment
Aug 30, 2013

↓

Meeting for the selection of booth location
Early September, 2013
(To be announced)

How to apply

To apply, fill in the 12page form and send it to the KSMCB Secretariat by email or fax. We will issue you an invoice after your application has been confirmed.
Email: home@ksmcb.or.kr Fax: 82-2-558-0131

Exhibitor's Benefit

Free email delivery to the 10,000 KSMCB members each month on the exhibitor's new techniques and products

- Exposition for the exhibitors, a socializing hub for the exhibitors
- Seminar rooms available (70 seats capacity) for 1 hour upon reservation
- Poster session for the introduction of new products and useful information from the exhibitor.
- Free 1 barcode reader rental for customer management
- Free parking (1 ticket/day for 1-2 booth, 2 tickets/day for〉3 booths)
- Free meal coupon (1 ticket/booth for 2 days)
- Night security service for the protection of the exhibits

Selection of booth location

According to the rule shown below, the booth locations will be determined during the exposition for the exhibitors and meeting for the selection of booth locations.

First priority: exhibitors with sponsorship packages and bigger size of the booth

Second priority: exhibitors reserved for 2014 exhibition

Third priority: first come first serve basis for the registration

Exposition & Use of seminar rooms

Exposition

Exposition to introduce the exhibitor's techniques and products (during the lunch time)

Item	Contents
Date	Session 1-4 : Oct. 9(Wed) 12:00-12:50 Session 5-6 : Oct. 10(Thu) 12:20-13:10 Session 7-8 : Oct. 10(Fri) 12:20-13:10
Contents	Exhibitor's free choice (advertisement on new techniques/products or recruit information)
Fee	KRW 10,000,000/session
Provided Items	150 seats, Beam projector, Mic (Lunch boxes for the participants may be prepared by the exhibitors)
Closing Date	Aug. 30(Fri)
How to apply	To apply, fill in the 11page form and send it to the KSMCB Secretariat by email or fax. Email: home@ksmcb.or.kr Fax: 82-2-558-0131

Use of seminar rooms

Free use of seminar rooms (1 hour) for the exhibitors

Item	Contents
Date	Oct. 10(Tue)-11(Fri) 10:00-17:00
Contents	Free
Fee	Free
Provided Items	Lecture platform, Chairs (70 ea), Beam projector, Mic (* Bring your own laptop computers)
Closing Date	Aug. 30(Fri), FCFS
How to apply	To apply, fill in the blanks below and email to home@ksmcb.or.kr

Application for using of seminar rooms			
Company Name			
Contact Person		Tel	
Desired date		Desired time	
Contents	Title		
	Speaker		
	Description (Max 200 Characters)		
	Logo	(Attach)	

Support & Advertisement

Sponsorship Package

Sponsorship Package A

(Unit: KRW)

Class	Benefits	Value
1. Exhibition	4 Booths(Space Only)	8,100,000
2. Advertisement	Logo Advertisement on the Main Page of the Website (12months)	6,000,000
	Logo Advertisement at the Webmail (12months)	6,000,000
	Advertisement (1page) on abstract book	1,000,000
	Printing Your Logo on Registration Desks	1,000,000
3. Workshop	Exposition (Luncheon Sym.)	10,000,000
4. Remembrance	Self-production	7,000,000
5. Scholarship Awards	Name on the Promotional literature(except plaque)	10,000,000
6. Poster Presentation Awards	000 Best Poster Prize	6,000,000
Total Value		~~55,100,000~~
Discounted Amount		**→ 50,000,000**

[Additional benefits]
1. Sponsor names printed on banners, abstract book and posters
2. Sponsor names printed on the front side of the registration desks.
3. Priorities will be given for choosing booth location

Sponsorship Package B

(Unit: KRW)

Class	Benefits	Value
1. Exhibition	4 Booths(Space Only)	8,100,000
2. Advertisement	Logo Advertisement on the Main Page of the Website (12months)	6,000,000
	Advertisement (1page) on abstract book	1,000,000
	Advertisement leaflet insert in the abstract book (self-production)	2,000,000
	Printing Your Logo on Registration Desks	1,000,000
3. Workshop	Exposition (Luncheon Sym.)	10,000,000
4. Remembrance	Self-production	10,000,000
5. Poster Presentation Awards	000 Best Poster Prize	6,000,000
Total Value		~~44,100,000~~
Discounted Amount		**→ 40,000,000**

[Additional benefits]
1. Sponsor names printed on banners, abstract book and posters
2. Sponsor names printed on the front side of the registration desks.
3. Priorities will be given for choosing booth location

Support & Advertisement

Sponsorship Package

Sponsorship Package C

(Unit: KRW)

Class	Benefits	Value
1. Exhibition	4 Booths(Space Only)	8,100,000
2. Advertisement	Logo Advertisement on the Main Page of the Website (12months)	6,000,000
	Advertisement (1page) on abstract book	1,000,000
	Advertisement leaflet insert in the abstract book (self-production)	2,000,000
	Printing Your Logo on Registration Desks	1,000,000
3. Workshop	Exposition (Luncheon Sym.)	10,000,000
4. Remembrance	Self-production	5,000,000
Total Value		~~33,100,000~~
Discounted Amount		**→ 30,000,000**

[Additional benefits]
1. Priorities will be given for choosing booth location

Sponsorship Package D

(Unit: KRW)

Class	Benefits	Value
1. Exhibition	3 Booths(Space Only)	6,300,000
2. Advertisement	Logo Advertisement on the Main Page of the Website (12months)	3,500,000
	Advertisement (1page) on abstract book	1,000,000
	Printing Your Logo on Registration Desks	1,000,000
	Advertisement on the Newsletter(1page)	1,000,000
3. Workshop	Exposition (Luncheon Sym.)	10,000,000
Total Value		~~22,800,000~~
Discounted Amount		**→ 20,000,000**

[Additional benefits]
1. Priorities will be given for choosing booth location

Sponsorship Package E

(Unit: KRW)

Class	Benefits	Value
1. Exhibition	1 Booth(Space Only)	2,400,000
2. Workshop	Exposition (Luncheon Sym.)	10,000,000
Total Value		~~12,400,000~~
Discounted Amount		**→ 10,000,000**

[Additional benefits]
1. Priorities will be given for choosing booth location

＊Let us create a customized support program for you.

Support & Advertisement

Special Sponsorship

Special Sponsorship Ⅰ

(Unit: KRW)

항 목	금 액
Poster Presentation Awards	6,000,000

[Additional benefits]
1. Poster presentation awards under the sponsor names. Participation of sponsor representatives at awarding ceremony
2. Free advertisement (1 page) on abstract book

Special Sponsorship Ⅱ

(Unit: KRW)

항 목	금 액
Travel Grant Awards	6,000,000

[Additional benefits]
1. Travel grant awards under the sponsor names
2. Free advertisement (1 page) on abstract book

Special Sponsorship Ⅲ

(Unit: KRW)

항 목		금 액
Bag Insertion Ⅰ	1 whole side Advertisement (limited 1 sponsor)	10,000,000
Bag Insertion Ⅱ	small side Advertisement (up to 5 sponsors)	3,000,000

Special Sponsorship Ⅳ

(Unit: KRW)

항 목	금 액
Supporting Fund for Conference Gifts	3,000,000

[Additional benefits]
1. Sponsor names engraved in the gifts
2. Presentation of the gifts by sponsor representatives
3. Free advertisement (1 page) on abstract book

How to apply

To apply, fill in the 12page form and send it to the KSMCB Secretariat by email or fax.
Email: home@ksmcb.or.kr Fax: 82-2-558-0131

Support & Advertisement

Advertisement

On-line & Off-Line

(Unit: KRW)

Items	Location	Fee	No.of Copies	Issue date	Frequency
Annual conference abstract book	inside	1,000,000 KRW	4,000 ea	Oct	1 issue/year
	cover 2/3/4	2,000,000 KRW			
Winter conference abstract book	inside	1,000,000 KRW	1,000 ea	Jan	1 issue/year
Homepage banner	main	500,000 KRW/month			anytime
	subheader	250,000 KRW/month			
2013-2014 Member list book	inside	1,000,000 KRW	1,000 ea	Sep	1 issue/2year
KSMCB Newsletter	inside	1,000,000 KRW	3,000 ea	Dec	1 issue/year
	cover 2/3/4	2,000,000 KRW			

Annual Meeting

(Unit: KRW)

Items	Fee	Company	Contents
Sponsor advertisement movies	2,000,000 KRW	1 sponsor	Screening advertisement movie during break time (10 min max.)
Advertisement leaflet insert in the abstract book	2,000,000 KRW	Up to 5 sponsors	Advertisement leaflet insert in the abstract book (self-production)
Registration desk	1,000,000 KRW	Up to 5 sponsors	Sponsor name or logo on the front side of registration desks
Internet lounge	1,000,000 KRW	1 sponsor	Sponsor name, logo or poster in booth

How to Apply

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Email: home@ksmcb.or.kr Fax: 82-2-558-0131

Application for Sponsorship/Exhibition

Company	Name of Company			
	Representative			
	Name of Contact Person			
	Address			
	Tel		Fax	
	Email		URL	
	Exhibition items	☐ Imaging devices ☐ Cell Research devices ☐ General analytic devices ☐ Chemicals and reagents ☐ Disposable plasticwares ☐ Books ☐ etc ( )		
	Service Fields (*Multiple choice)	☐ Reagents for research and diagnostics ☐ Diagnosis and analysis service ☐ R&D service ☐ Books ☐ Lab animal care devices ☐ Analysis and measurement devices ☐ Sterilization devices ☐ Imaging devices ☐ Basic Research devices ☐ Medical devices ☐ Analysis softwares ☐ New drug development ☐ Medicine ☐ Preclinical experiment agents ☐ Cryopreservation containers ☐ etc ( )		
Category	Exhibition	**Space Only Booth**	**Shell Scheme Booth**	
		☐ 1 Booth ☐ 2 Booths ☐ 3 Booths ☐ 4 Booths ☐ 5 Booths ☐ 6 Booths	☐ 1 Booth ☐ 2 Booths ☐ 3 Booths ☐ 4 Booths ☐ 5 Booths ☐ 6 Booths	
		Option		
		☐ Barcode Reader		
		☐ LAN ☐ Wireless LAN		
		☐ Electricity		
		☐ Logo		
	Exposition	☐ ₩10,000,000		
	Sponsorship Package	☐ A (₩50,000,000) ☐ B (₩40,000,000) ☐ C (₩30,000,000) ☐ D (₩20,000,000) ☐ E (₩10,000,000)		
	Special Sponsorship	☐ Ⅰ (₩6,000,000) ☐ Ⅱ (₩6,000,000) ☐ Ⅲ - ⅰ (₩10,000,000) ☐ Ⅲ - ⅱ (₩3,000,000) ☐ Ⅳ (₩3,000,000)		
	Advertisement	☐ Website Banner(Main Page) ☐ Website Banner(Sub Page) ☐ Abstract Book ☐ Screening advertisement movie ☐ Leaflet insert in the abstract book ☐ Printing your logo on registration desks ☐ Internet Lounge		
Total		₩_____		

Application for Sponsorship/Exhibition

Installment payment

1st installment	Date: By May 31, 2013
	Amount: 50% of total amount
Final installment	Date: By Aug 30, 2013
	Amount: Balance

Cancellation Policy

The date the written notice is received is considered the official cancellation date. The cancellation fee is a percentage of the total fee(not just of the deposit). It is assessed as follows:

Duration	Deduction
Through July. 31(Wed)	20%
Aug. 1(Thu) - Aug. 30(Fri)	50%
After Aug. 31(Sat)	100%

Payment Method

☐ **Bank Transfer**

Account: Kookmin Bank, 454101-01-129531
Name: The Korean Society for Molecular and Cellular Biology(KSMCB)
Bank Address: Kookmin bank, 316, Daechi-dong, Gangnam-gu, Seoul 135-280, Korea
Swift Code: CZNBKRSE

☐ **Credit Card (VISA, Master)**

Card No.: _____
Expiration Date(mm/yy): _____
Cardholder's Name: _____

We hereby apply to participate as a sponsor/exhibitor of the International Conference of the Korean Society for Molecular and Cellular Biology as above.

Date:_____

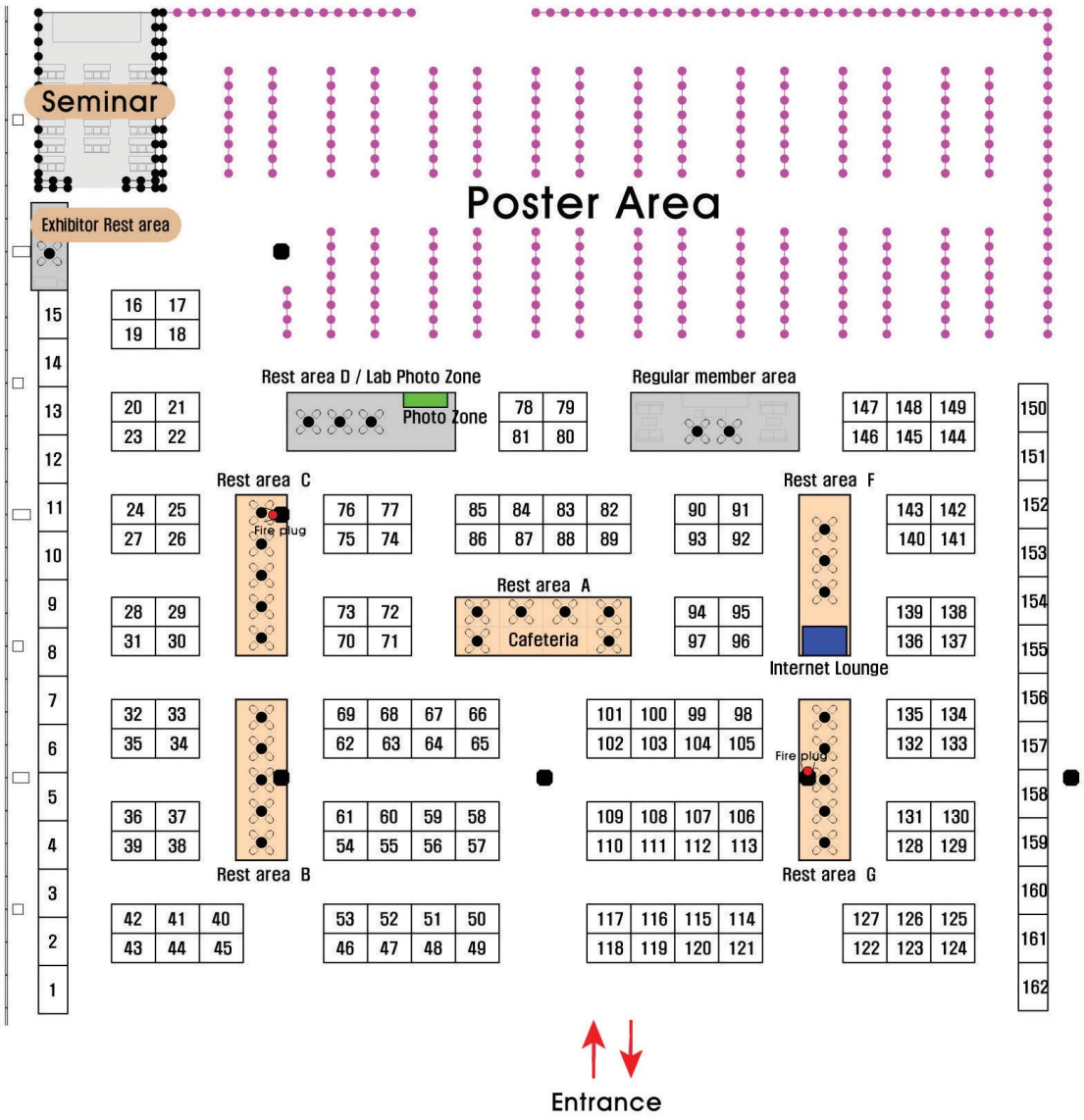
Representative:_____

Company:_____

Please fill in this form and send it to the KSMCB Secretariat by email or fax. We will issue you an invoice after your application has been confirmed. Email: home@ksmcb.or.kr Fax: 82-2-558-0131

Floor Plan

COEX, Hall C3-C4 (3F)



※ The above floor plan may be changed. After booth area select meeting, the floor plan will finally be confirmed.

Program

Wednesday, October 9, 2013

Time/Place	317	318	327	401	402
10:00-11:00	Registration				
11:00-12:00	Meet the Leading Scientists (in Korean) (Rm. 401)				
12:00-12:50	Company Workshop 1	Company Workshop 2	Company Workshop 3		Company Workshop 4
12:50-13:00	Break				
13:00-15:00	**SY01** Tumor Microenvironment and Inflammation	**SY02** Stem Cell Niche and Cell Therapy	**SY03** Metabolites and Metabolite Signaling in Plant Growth Regulation	**SY04** Cell Fate Control and Nanotechnology	Institut Pasteur Korea Satellite Meeting
15:00-15:10	Break				
15:10-15:20	Opening Ceremony (Rm. 401)				
15:20-16:10	Plenary Lecture I. **James L. Manley, Ph.D.** (Rm. 401)				
16:10-16:50	Special Lecture. **Nobutaka Hirokawa, M.D., Ph.D.** (Rm. 401)				**Macrogen Award Lecture**
16:50-17:00	Break				
17:00-17:50	Plenary Lecture II. Lynne E. Maquat, Ph.D. (Rm. 401)				

Thursday, October 10, 2013

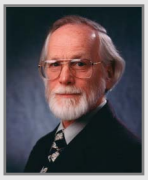
Time/Place	317	318	327	401	402	Hall C3-C4(3F) Poster/Exhibition
08:00-09:00						
09:00-11:00	**SY05** Genome-Wide Study of Gene Expression Regulation	**SY06** Post-Transcriptional Regulation of Gene Expression by RNA-Binding Proteins and Non-Coding RNAs	**SY07** Neurobiology of Disease	**SY08** Developmental Biology of Tooth	**SY09** Mitochondria Dynamics and Function	**Poster Presentation I** 09:00-17:40 11:00-11:30(duty) 13:30-14:00(duty)
11:00-11:30	Break & Poster Viewing					
11:30-12:20	Nobel Laureate Lecture. **John Michael Bishop, M.D., Ph.D.** (Rm. 401)					
12:20-13:10	Research Ethics Sym.(Korean)	Company Workshop 5	Company Workshop 6	Satellite Meeting I	Council Meeting	
13:10-14:00	Break & Poster Viewing					
14:00-14:50	Plenary Lecture III. **Hans Clevers, M.D., Ph.D.** (Rm. 401)					
14:50-15:30	**KSMCB Life Science Award Lecture** (Rm. 401)					
15:30-15:40	Break					
15:40-17:40	**SY10** Sensing and Behavior	**SY11** Beta Cell in Diabetes	**SY12** Sphingolipid Biology	**SY13** Transcription and Chromatin		
17:40-18:30	Reception (402)					

Friday, October 11, 2013

Time/Place	317	318	327	401	402	Hall C3-C4(3F) Poster/Exhibition
08:00-09:00						
09:00-11:00	**SY14** Inflammation and Immune Cell Activation	**SY15** Cell and Molecular Biology of Bacterial Infection	**SY16** Checkpoint and Genomic Integrity	**SY17** Plant Hormones and Development	**SY18** HO-1/CO Parmacology, Physiology and Biology	**Poster Presentation II** 09:00-17:40 11:00-11:30(duty) 13:30-14:00(duty)
11:00-11:30	Break & Poster Viewing					
11:30-12:20	Plenary Lecture IV. **Timothy A. Springer, Ph.D.** (Rm. 401)					
12:20-13:10	Satellite Meeting II	Satellite Meeting III	Company Workshop 7	KSMCB General Assembly	Company Workshop 8	
13:10-14:00	Break & Poster Viewing					
14:00-14:50	Plenary Lecture V. **Junjie Chen, Ph.D.** (Rm. 401)					
14:50-15:30	**Ilchun Memorial Lecture** (Rm. 401)					
15:30-15:40	Break					
15:40-17:40	**SY19** NAD in Health and Diseas	**SY20** Nuclear Receptors and Human Disease	**SY21** Lipoprotein in Atherosclerosis and Metabolic Syndrome	**SY22** Structural Understanding of the Cell Signaling	**SY23** Current Development Status of DNA-Based Drugs	
17:40-18:00	Closing Remark (Rm. 401)					

Invited Speakers

Nobel Laureate Lecture



Exploiting the Cancer Genome

J. Michael Bishop, M.D., Ph.D.
Department of Microbiology and Immunology, University of California, USA

* 1989 Nobel Laureate

Dr. J. Michael Bishop, Chancellor Emeritus of the University of California at San Francisco (UCSF), serves as a Professor in the Department of Microbiology and Immunology and Director of the GW Hooper Foundation. Dr. Bishop joined the UCSF faculty in 1968 and was appointed as UCSF chancellor in February 1998. Since 2004, he also has held the Arthur and Toni Rembe Rock Distinguished Professorship. While serving as chancellor, Dr. Bishop continued to teach medical students and run his distinguished research lab. Dr. Bishop and his colleague Harold Varmus shared the Nobel Prize in Physiology or Medicine in 1989 for their discovery of the first proto-oncogene, c-src. Dr. Bishop and Dr. Glenn Seaborg, who served as chancellor at UC Berkeley from 1958-61, are the only two Nobel laureates to have served as chancellors in the 10-campus UC system. Dr. Bishop's research team has investigated the genetic underpinnings of cancer, in particular the large group of cellular genes known as proto-oncogenes.

Special Lecture

Kinesin Superfamily Molecular Motors, KIFs and Intracellular Transport: from Regulation of Learning/Memory and Development to Diseases

Nobutaka Hirokawa, M.D., Ph.D.
Department of Cell Biology and Anatomy, Graduate School of Medicine, University of Tokyo, Japan

* President of the International Federation for Cell Biology

Dr. N. Hirokawa is now a distinguished project professor in University of Tokyo, Graduate School of Medicine. He is also serving as the presidents of Human Frontier Science Program (HFSP) and International Federation for Cell Biology. He has been an elected associate member of EMBO (2003) and an elected member of Japan Academy (2004). The intracellular transport is fundamental for cellular functions, morphogenesis and survival in general including neurons composed of a very long axon and dendrites. Dr. Hirokawa discovered most of the kinesin superfamily motor proteins ,KIFs: 45 genes in mammals (mouse and human), elucidated their molecular structures and functional roles and successfully disclosed the mechanism of intracellular transport including 1) identification of KIFs and their own cargos, 2) mechanism of recognition, binding, and unloading cargos, and 3) mechanisms of directional transport and motility. Furthermore, using molecular genetics he successfully uncovered that KIFs play significant roles for fundamental physiological phenomena in life such as regulation of brain wiring, learning and memory, activity dependent neuronal survival, enteric neuronal development, left/right determination of our body and suppression of tumorigenesis. He further clarified that deletion of KIFs causes certain diseases such as neuropathy, learning/memory disturbance, epilepsy, elevated anxiety, hydrocephalus, female infertility, tumors and megacolon. He has published 232 high quality papers in top journals; 17 in Cell, 9 in Nature, 8 in Science, 58 in JCB, 10 in Neuron, 7 in EMBO J and 8 in PNAS. For his achievements, Dr. Hirokawa has received numerous awards including the highest prize from the

Invited Speakers

Japanese Society for Medical Sciences (1991), the Asahi prize (1996), the Japan Academy prize (1999) and Eduard Buchner prize (2005). He has been also invited to the editorial boards of high impact journals such as Cell, Science, Neuron, Dev Cell, JCB, and EMBO J.

Plenary Lectures

Regulation of mRNA Processing: Integration with Other Cellular Events and Links to Human Disease

James L. Manley, Ph.D.
Department of Biological Sciences, Columbia University, USA

James L. Manley is Julian Clarence Levi Professor of Life Sciences at Columbia University. Currently, he is a member of the U.S. National Academy of Sciences, American Academy of Arts and Sciences, and American Association for the Advancement of Science. He received his B.S. degree in Biology from Columbia University and Ph.D. degree in Molecular Biology from State University of New York at Stony Brook/Cold Spring Harbor Laboratory. After having worked at Massachusetts Institute of Technology, he has been in the Department of Biological Sciences at Columbia University since 1980. He has served on the Editorial Boards of several leading scientific journals, including Molecular Cell, Genes and Development, Nucleic Acids Research, and RNA, and is currently an Editor of Molecular and Cellular Biology and the new journal, eLife.

Dr. Manley's laboratory has made key contributions to our understanding of gene expression and its regulation in eukaryotic cells. For example, Dr. Manley has provided groundbreaking insights into two essential steps in gene expression, i.e., the splicing and polyadenylation of mRNA precursors. Dr. Manley's discovery of the prototypical SR protein splicing factor ASF/SF2, and subsequent characterization of this and related proteins, have made significant contributions to our understanding of pre-mRNA splicing: His research has focused on molecular mechanisms by which SR protein family members regulate alternative splicing, and control splicing more generally under a variety of physiological conditions.

Dr. Manley has played pioneering roles in understanding 3' processing, i.e., polyadenylation of mRNA precursors, by identifying, purifying, cloning and characterizing many of the surprisingly large number of proteins required for this reaction, and then by elucidating specific regulatory mechanisms, important in cell growth and differentiation.

Of equal importance, Dr. Manley has shown that transcription, splicing and polyadenylation are all mechanistically linked: RNA polymerase II, in addition to its role in transcription, also functions directly in both splicing and polyadenylation. This requires a unique region of the polymerase, known as C-terminal domain of RNA polymerase II (CTD), which consists of a long, repetitive sequence that is highly phosphorylated. Currently, Dr. Manley's lab is studying how the CTD functions, and how its interactions contribute to gene control. His lab is also continuously studying how transcription factors, such as the PAF complex and TLS/EWS family, function to link transcription and subsequent RNA processing and how importantly these and other factors contribute to human disease.

Invited Speakers

"Alu" strious effects on human RNA metabolism: Post-transcriptional gene regulation by inter- and intra-molecular Alu element base-pairing

Lynne E. Maquat, Ph.D.
Department of Biochemistry and Biophysics, School of Medicine and Dentistry, University of Rochester, USA

Dr. Lynne Maquat is a director of Center for RNA biology and J. Lowell Orbison Endowed Chair and Professor at University of Rochester, New York. She has been dedicated to the development of RNA biology research. Her honors and elected positions include a president of RNA society (2006), the American Association for the Advancement of Science (2006), RNA Society Lifetime Achievement Award in Service (2010), National Academy of Sciences (2011), Batsheva Fellowship, Israel Academy of Sciences and Humanities (2012-2013), University of Rochester Presidential Diversity Award (2013), and many others with countless invited seminars/meetings.

The Maquat lab was first to describe (i) that nonsense-mediated mRNA decay (NMD) degrades newly synthesized mRNAs, (ii) the role of pre-mRNA introns in defining which translation termination codons trigger NMD, (iii) the idea that splicing deposits a "mark" on newly synthesized mRNAs that persists until the first round of translation, (iv) the NMD factors UPF2, UPF3, UPF3X, SMG5, SMG6 and SMG7, (v) exon-junction complexes (EJCs), (vi) the pioneer round of translation, (vi) the mechanism by which NMD depends on the cap-binding protein CBP80, (vii) the critical importance of translational repression to NMD, (vii) the cytoplasmic recapping of mRNAs, and (viii) rules for binding of the UPF1 to mRNA 3'-untranslated regions (3' UTRs).

In related studies, the Maquat lab discovered Staufen 1(STAU1)-mediated mRNA decay (SMD). STAU1 bound to a 3' UTR STAU1-binding site (SBS) leads to mRNA degradation. In SMD studies, unexpected roles for cytoplasmic long noncoding RNAs (lncRNAs) and Alu elements were discovered to base-pair with the 3' UTRs of mRNAs via partially complementary SINEs to create an intermolecular SBS and trigger SMD. The crystal structure of the STAU1 dimerization interface was solved by the Maquat lab. Dimerization enhances the efficiency of SMD by enhancing the interaction of STAU1 with UPF1.

Wnt Signaling, Lgr5 Stem Cells and Cancer

Hans Clevers, M.D., Ph.D.
Hubrecht Institute, Royal Netherlands Academy of Arts and Sciences & University Medical Center Utrecht, Netherlands

Hans Clevers obtained his MD degree in 1984 and his PhD degree in 1985 from the University Utrecht, the Netherlands. His postdoctoral work (1986-1989) was done with Cox Terhorst at the Dana-Farber Cancer Institute of the Harvard University, Boston, USA.

From 1991-2002 Hans Clevers was Professor in Immunology at the University Utrecht and, since 2002, Professor in Molecular Genetics. From 2002-2012 he was director of the Hubrecht Institute in Utrecht . Since 2012 he is President of the Royal Netherlands Academy of Arts and Sciences (KNAW).

The intestinal epithelium is the most rapidly self-renewing mammalian tissue. Lgr5 is a gene transcribed in cycling, crypt base columnar cells at the crypt base. Using lineage tracing experiments the $Lgr5^{+ve}$ cells were identified as the stem cells of the intestinal epithelium. Furthermore, $Lgr5^{+ve}$ stem cells can initiate ever-expanding organoids in vitro. The $Lgr5^{+ve}$ stem cell hierarchy of differentiation is maintained in these organoids. Thus, intestinal crypt-villus units can

Invited Speakers

be built from a single stem cell in the absence of a non-epithelial cellular niche.

Although, Lgr5 stem cells persist life-long, crypts drift toward clonality quickly. The cellular dynamics are consistent with a model in which the stem cells divide symmetrically, and stochastically adopt stem or transient amplifying cell fates after cell division.

Lgr5 stem cells are interspersed between differentiated Paneth cells, which produce all essential signals for stem-cell maintenance. Co-culturing of sorted stem cells with Paneth cells dramatically improves organoid formation. Genetic removal of Paneth cells in vivo results in the concomitant loss of Lgr5 stem cells.

Intestinal cancer is initiated by Wnt pathway-activating mutations in genes such as APC. Deletion of APC in stem cells, but not in other crypt cells results in neoplasia, identifying the stem cell as the cell-of-origin of adenomas. Moreover, a stem cell/progenitor cell hierarchy is maintained in stem cell-derived adenomas, lending support to the "cancer stem cell"-concept.

Integrins as Molecular Machines

Timothy A. Springer, Ph.D.
Immune Disease Institute, Harvard Medical School, USA

Timothy A. Springer did his Ph.D. at Harvard with Jack Strominger and his postdoc with Cesar Milstein in England. Since 1977, he has been at Harvard Medical School, where he is Latham Family Professor of Biological Chemistry and Molecular Pharmacology and at Children's Hospital. He discovered the first adhesion receptors of hematopoietic and endothelial cells. He found that LFA-1 bound ICAM-1, an inducible molecule on endothelium, and that CD2 bound LFA-3. Springer discovered that the T cell receptor for antigen and chemoattractants activate adhesiveness of LFA-1.

Springer was the first to define relationships among members of what later became known as the integrin family, by demonstrating that the adhesion molecule LFA-1 and the complement receptor Mac-1 contained β subunits that were identical and α subunits that were homologous in sequence. Springer discovered three sequential steps that mediate leukocyte emigration from the bloodstream: selectin-mediated rolling, chemoattractant stimulation, and integrin-dependent firm adhesion. Springer became a structural biologist to understand the mechanism of integrin activation, and visualized the atomic structures of these molecules bound to ligands and revealed unusually large conformational changes that activate their adhesiveness.

Two of his discoveries, LFA-1 and LFA-3, were made into FDA-approved drugs, efalizumab and alefacept. Springer's discovery that antigen-specific responses and diapedesis required adhesion receptors inaugurated an important new class of therapeutics for autoimmune diseases, the selective adhesion molecule inhibitors. His prizes include the Basic Research Prize from the American Heart Association, the William B. Coley Medal from the Cancer Research Institute, and the Crafoord Prize in Polyarthritis from the Royal Swedish Academy of Sciences. He is a member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences. His $>$ 500 scientific articles have $>$90,000 citations and a Hirsch index of 142. Springer founded LeukoSite, is currently a board member of three biotech companies, and sits on the Board of Trust of Children's Hospital.

Current research areas in the lab include integrins and their ligands, the TGF β /BMP family, von Willebrand factor, structural vaccinology of Malaria, single molecule laser tweezers studies of force as an allosteric effector, and single molecule fluorescence studies on integrin activation in intact cells.

Invited Speakers

Protein-protein interaction network in DNA damage response and tumorigenesis

Junjie Chen, Ph.D.
Department of Experimental Radiation Oncology, The University of Texas MD Anderson Cancer Center, USA

Junjie Chen is professor and chair of the Experimental Radiation Oncology Department at University of Texas MD Anderson Cancer Center. He received B.S. in Genetics and Genetic Engineering from Fudan University and Ph.D. in Cell and Molecular Biology from University of Vermont in 1993. He completed postdoctoral training at Harvard Medical School before becoming an Assistant Professor at Mayo Clinic in 1999. He was promoted to tenured Associate Professor at Mayo Clinic in 2004 and moved to Yale University as Professor in 2006. He moved again to the University of Texas MD Anderson Cancer Center as department chair in 2009.

The overall goal of Dr. Chen's laboratory is to understand the molecular mechanisms underlying genomic instability and tumorigenesis. The maintenance of genomic integrity following DNA damage depends on the coordination of DNA repair with cell cycle checkpoint controls. The integrity of the DNA damage response pathway is crucial for the prevention of neoplastic transformation, as suggested by the fact that many proteins involved in these pathways are tumor suppressors, which include p53, ATM, Chk2, BRCA1 and BRCA2. His group discovered and studied many new components involved in DNA damage pathways, which is still a focus of his research program. Dr. Chen's group also ventured into other areas of genomic instability, including mitotic regulation, cellular senescence and aging. More recently, his lab begun to study several cancer signaling pathways that are important for tumor survival, proliferation and metastasis.

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Carol Prives (Columbia Univ., USA)
Chad Nusbaum (Broad Inst. of MIT and Harvard, USA)
Christine Vogel (New York Univ., USA)
David Moore (Baylor College of Medicine, USA)
Doo-sup Choi (Mayo Clinic College of Medicine, USA)
Eiji Hara (Japanese Foundation for Cancer Research, Japan)
Hyungjin Kim (Harvard Medical School, USA)
Janghoo Lim (Yale University, USA)
Jong W Hong (Auburn University, USA)
Ken-ichiro Hayashi (Okayama Univ, of Science, Japan)
Malcolm L. Snead (Univ. of Southern California, USA)
Marie-Louise Michel (Institut Pasteur & INSERM, France)
Mattew Hayden (Columbia Univ., USA)
Michael McManus (Massey Univ., New Zealand)
Michael Otto (NIH, USA)
Michael S. German (Univ. of California, USA)
Myriam Gorospe (NIH & NIA, USA)
Nevan Krogan (Univ. of California, USA)
Pei-Feng Li (Chinese Academy of Sciences, China)
Piali Sengupta (Brandeis Univ., USA)
Richard A. Morgan (NIH, USA)
Sona Kang (Harvard Med. School, USA)
Stefan W. Ryter (Harvard Medical School, USA)
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Takashi Nagasawa (Kyoto Univ., Japan)
Toshiro Okazaki (Kanazawa Med. Univ., Japan)
Yong-Seok Oh (Rockefeller Univ., USA)
Yisang Yoon (Georgia Regents Univ., USA)

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Korean

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Changwook Lee (Korea Advanced Inst. of Sci. and Tech.)
Chang-Yuil Kang (Seoul National Univ.)
Daeho Park (Gwangju Inst. of Science and Technology)
Daesoo Kim (Korea Advanced Inst. of Sci. and Tech.)
Dong Wook Han (Konkuk Univ.)
Dong-Soon Im (Pusan National Univ.)
Eui-Sic Cho (Chonbuk National Univ.)
Eun Hee Koh (Ulsan Univ.)
Eun Young Kim (Ajou Univ.)
Eun-Kyeong Jo (Chungnam National Univ.)
Giltsu Choi (Korea Advanced Inst. of Sci. and Tech.)
Hak Soo Seo (Seoul National Univ.)
Hansung Jung (Younsei Univ.)
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KSMCB The Korea Science Technology Center(Rm. 1105), 22, 7Gil, Teheran-ro, Gangnam-gu, Seoul 135-703, Korea Tel : 02-568-4445, 4490 Fax : 02-558-0131 http://www.ksmcb.or.kr; E-mail:home@ksmcb.or.kr

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