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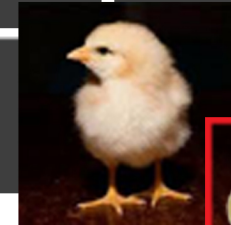
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Seoul  
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2011.07.11(월)

서울대학교 SPC농생명과학연구동 203동 101호

# Korea-Japan Joint Symposium on Avian Biology

주최 서울대학교 농생명공학부 바이오모듈레이션 사업단

[WCU Biomodulation Program, Department of Agricultural Biotechnology SNU]

추원 한국연구재단 [National Research Foundation of Korea]



# Korea-Japan Joint Symposium on Avian Biology

## 초대의 글

서울대학교 WCU 바이오모듈레이션 사업단에서는 2011년 한.일 공동 심포지엄(가금생명공학)에 여러분을 초대하게 된 것을 무한한 영광으로 생각합니다. 본 심포지엄은 가금관련 연구활성화 및 한.일 공동연구 네트워크 구축을 위하여 WCU 바이오모듈레이션 사업단에서 개최하는 국제학술대회입니다.

2011년 심포지엄의 경우 미래를 준비하는 선도 가금생명공학 기술 중 유전자 및 유전체, 줄기세포와 생식세포와 관련된 최근 연구동향을 여러분들께 소개 드리는 자리가 될 것입니다. 특히 이번 행사에는 일본 가금학회에서 총 10명의 석학 및 8명의 국내유명학자가 초빙되어 최근의 연구결과를 발표할 자리가 될 것입니다. 대한민국 생명공학분야가 발전하는데 밑알이 되고자 하는 저의 심포지엄에 모든 분들의 격려와 관심을 부탁 드리며, 소중한 시간을 허락하시어 저희가 정성 들여 준비한 심포지엄에 참여하여 주시길 진심으로 바라겠습니다.



2011년 바이오모듈레이션 한.일 공동 심포지엄  
공동 조직위원장  
한 재 용 | Kiyoshi Shimada

## 한.일 공동 심포지엄 프로그램

Time	Program	Remarks
08:30-09:00	Registration	Bldg 203 Room 101
09:00-09:10	Opening Ceremony	
	Opening Remark	Kiyoshi Shimada (Co-organizer)
	Welcome Remark	Jong Kyu Ha (Department Head)
	Greeting address	Yukinori Yoshimura (president of JPSA)
<b>Session I: Reproduction for avian model system</b>		
09:10-09:35	Yukinori Yoshimura (Hiroshima University)	Chair
09:35-10:00	Gwonhwa Song (Seoul National University)	Takeshi Ohkubo Jeong Mook Lim
10:00-10:25	Takeshi Ohkubo (Ibaraki University)	
10:25-10:50	Coffee break (Intermission)	
<b>Session II: Germ cell and stem cell biology in avian model system</b>		
10:50-11:15	Yoshiaki Nakamura (National Institute for Basic Biology)	Chair Tamao Ono
11:15-11:40	Tae Sub Park (Avicore Biotechnology Institute, Optifarm Solution Inc.)	Sea Hwan Sohn
11:40-12:05	Deivendran Rengaraj (Seoul National University)	
12:05-12:30	Jeong Mook Lim (Seoul National University)	
<b>(12:30-14:00) Lunch &amp; Poster Session</b>		
<b>Session III: Genetic resource for avian model system</b>		
14:00-14:25	Takao Oka (Hiroshima University)	Chair
14:25-14:50	Jun Heon Lee (Chungnam National University)	Norio Kansaku Jun Heon Lee
14:50-15:15	Norio Kansaku (Azabu University)	
15:15-15:40	Sea Hwan Sohn (Gyeongnam National University of Science and Technology)	
15:40-16:05	Coffee break (Intermission)	
<b>Session IV: Future application for avian biotechnology</b>		
16:05-16:30	Shusei Mizushima (Shizuoka University)	Chair
16:30-16:55	Teoan Kim (Catholic University)	Yukinori Yoshimura Teoan Kim
16:55-17:20	Wongi Min (Gyeongsang National University)	
17:20-17:30	Closing Ceremony	
	Closing remark	Jae Yong Han (Co-organizer)

## PROGRAM

08:30-09:00 Registration & Poster Hanging  
09:00-09:10 Opening Ceremony  
Opening Remarks Kiyoshi Shimada, Co-organizer  
Welcome Remark Jong Kyu Ha, Department Head  
Greeting address Yukinori Yoshimura, President of JPSA

### >>>> Session I: Reproduction for avian model system

Chairs: Takeshi Ohkubo & Jeong Mook Lim

09:10-09:35  
Yukinori Yoshimura (Hiroshima University)  
Innate Immune System in Hen Oviduct

09:35-10:00  
Gwonhwa Song (Seoul National University)  
Discovery and Characterization of Candidate Genes Regulating Oviduct Development in Chickens

10:00-10:25  
Takeshi Ohkubo (Ibaraki University)  
Signal transduction of prolactin in chicken

10:25-10:50 Coffee break

### >>>> Session II: Germ cell and stem cell biology in avian model system

Chairs: Tamao Ono & Sea Hwan Sohn

10:50-11:15  
Yoshiaki Nakamura (National Institute for Basic Biology)  
Primordial Germ Cell-mediated Genetic Resource Preservation System in Chicken

11:15-11:40  
Tae Sub Park (Avicore Biotechnology Institute, Optifarm Solution Inc.)  
Characterization of Primordial Germ Cells in Birds and Its Applications for Avian Biotechnology

11:40-12:05  
Deivendran Rengaraj (Seoul National University)  
Characterization of chicken primordial germ cells through analysis of expressed genes, metabolism and signalling

12:05-12:30  
Jeong Mook Lim (Seoul National University)  
Does cell transformation can be utilized for establishing of stem cells in various species; limitation and prospective

12:30-14:00 **Lunch & Poster Session**

**>>>> Session III: Genetic resource for avian model system**

Chair: Norio Kansaku & Jun Heon Lee

14:00-14:25

Takao Oka (Hiroshima University)

Genetic Diversity and Structure of Japanese Native Chicken Breeds Based on Microsatellite DNA Polymorphisms

14:25-14:50

Jun Heon Lee (Chungnam National University)

Discrimination of Korean native chicken populations using SNPs from mtDNA and MHC polymorphisms

14:50-15:15

10. Norio Kansaku (Azabu University)

Genetic variation in the growth hormone promoter region of *Anas platyrhynchos*, a duck native to Myanmar

15:15-15:40

Sea Hwan Sohn (Gyeongnam National University of Science and Technology)

Genetic, Epigenetic and Environmental Factors Affecting Chicken Telomere Length

15:40-16:05 Coffee break

**>>>> Session IV: Future application for avian biotechnology**

Chair: Yukinori Yoshimura & Teoan Kim

16:05-16:30

Shusei Mizushima (Shizuoka University)

Molecular mechanism on intracellular  $Ca^{2+}$  rise triggered by sperm-borne oocyte activating factor in quail oocyte

16:30-16:55

Teoan Kim (Catholic University)

Production of the transgenic chicken expressing exogenous genes in a tetracycline-inducible manner

16:55-17:20

Wongi Min (Gyeongsang National University)

Immunological applications to reduce *Eimeria* infections

17:20- 17:30

Closing Ceremony

Closing remark

Jae Yong Han, Co-organizer