

Dear Colleagues :

It is our great pleasure to invite you to attend the Aging-associated Vascular Disease Research Center (AVDRC) international symposium on "Intervention of Vascular Aging: New Frontiers" that will be held at College of Medicine Yeungnam University on September 22, 2011. AVDRC was appointed as one of the 2005 medical science and engineering center by the Ministry of Education, Science and Technology, and National Research Foundation of Korea.

Aging-associated vascular diseases, such as atherosclerosis and hypertension, cause cerebral infarction, stroke, and myocardial infarction and represented 20.6% of all deaths in Korea as of 2006. Vascular diseases are the most common cause of death in the population at the age of over 75. For last 7 years, we have investigated the mechanisms for vascular aging and the impact of aging on vascular diseases. We hope our research products might contribute to the development of new strategies for intervention of vascular aging.

This symposium will discuss current researches on intervention of vascular aging. Outstanding scientists are invited to discuss the current progress in these fields. The symposium will provide not only a forum of extensive discussion on these subjects, but also an opportunity to build personal acquaintance among the attendees.

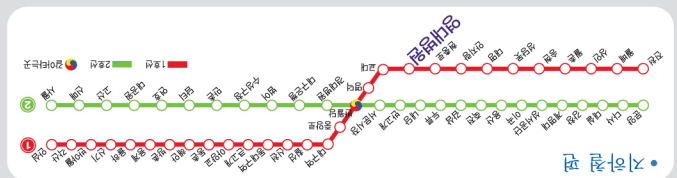
We hope that this symposium would be of great benefit for you as well as for many researchers in Korea. We look forward to seeing you here.

**Jae-Ryong Kim** MD, PhD

Director of Aging-associated Vascular Disease Research Center (AVDRC)  
Yeungnam University

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Aging-associated Vascular Disease Research Center



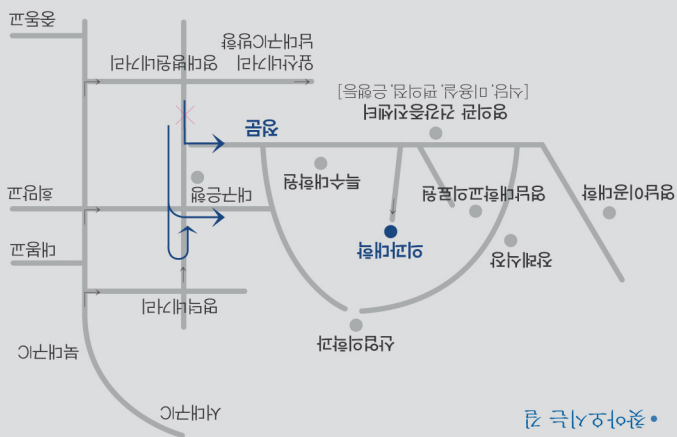
• 버스 노선

영대병원역에서 내려주세요  
순환 3-1, 452, 564, 604

영대병원역에서 내려주세요  
순환 3, 401-1, 452, 503, 604, 649, 805

대구고등학교 앞에서 내려주세요  
349, 405, 410-1, 503, 649, 805

대구고등학교 건너편에서 내려주세요  
349, 405, 410, 503, 649, 805



교육과학기술부-한국연구재단 지정 기초의과학연구소  
AVDRC 노인성혈관질환연구센터  
Aging-associated Vascular Disease Research Center

2011 AVDRC International Symposium

# Intervention of Vascular Aging : New Frontiers

September 22, 2011 (Thu) 09:00~18:00  
College of Medicine, Yeungnam University, Daegu, Korea

- 주 최 : 영남대학교 의과대학 • 장 소 : 죽성강강의실
- 주 관 : 영남대학교 노인성혈관질환연구센터
- 후 원



# Program

08:30~

**Registration**

09:15~09:30

**Opening Remarks:** Jae-Ryong Kim (Director, AVDRC, Yeungnam University)  
**Welcome Address:** Hyo Soo Lee (President, Yeungnam University)  
**Welcome Address:** Jung Ok Ha (President & CEO, Yeungnam University Medical Center)

## Session I : Endothelial Dysfunction in Aging

Chairman: **Yong-Woon Kim** (Director, Institute of Medical Science, Yeungnam University)

09:30~10:10

**Endothelium-dependent contractions: the hallmark of vascular aging**  
Paul M. Vanhoutte (University of Hong Kong, Hong Kong)

10:10~10:50

**Mechanisms underlying an age-associated exacerbation of western diet induced endothelial dysfunction**  
Lisa A. Lesniewski (University of Utah, USA)

10:50~11:15

**Disturbed flow-induced endothelial dysfunction**  
Chang-Hoon Woo (Yeungnam University, Korea)

11:15~11:30

**Coffee Break**

## Session II: Imaging in Cardiovascular Diseases

Chairman: **Myung-Shik Lee** (Sungkyunkwan University, Korea)

11:30~12:10

**Pathogenetic mechanisms on arteriovenous malformation: lesson from animal models**  
S. Paul Oh (University of Florida, USA)

12:10~12:40

**Label-free molecular imaging technologies on cardiovascular research**  
Se-Hwa Kim (Korea Research Institute of Standard and Science, Korea)

12:40~14:00

**Lunch**

## Session III: MicroRNA and Autophagy

Chairman: **In Kwon Chung** (Yonsei University, Korea)

14:00~14:40

**MicroRNAs: new regulator in aging-related cardiovascular diseases**  
Qing Jing (Shanghai Jiao-Tong University, China)

14:40~15:20

**MicroRNA-33 encoded by an intron of Srebp2 regulates HDL in vivo**  
Koh Ono (Kyoto University, Japan)

15:20~15:50

**Emerging role of autophagy in pancreatic  $\beta$ -cell homeostasis and diabetes: a new type of cell death**  
Myung-Shik Lee (Sungkyunkwan University, Korea)

15:50~16:10

**Coffee Break**

## Session IV: Cancer and Aging

Chairman: **Su-Jeong Lee** (Dean, College of Medicine, Yeungnam University)

16:10~16:40

**Telomere and telomerase biology: its application to aging and cancer**  
In Kwon Chung (Yonsei University, Korea)

16:40~17:10

**Novel determinants of cellular senescence and their action mechanisms**  
Jae-Seon Lee (Korea Institute of Radiological & Medical Sciences, Korea)

17:10~17:40

**The role of HIF-1 in the lifespan regulation by mitochondrial respiration in *C. elegans***  
Seung-Jae Lee (Pohang University of Science and Technology, Korea)

17:40~18:05

**Anti-osteoporotic agent prevents soft tissue calcification**  
Daewon Jeong (Yeungnam University, Korea)

18:05~18:15

**Closing Remarks:**  
Jae-Ryong Kim (Director, AVDRC, Yeungnam University)

18:50~

**Reception**