

## 모시는 글



이사장 김주한

대한신경과학회는 1982년에 창립하여 30년이 안 되는 짧은 기간에 중견의 학회로 자리 잡았고 나날이 발전하고 있습니다. 회원들이 국내뿐 아니라 국제적으로도 많은 활동을 하여 여러 국제 학회를 유치하고 성공적으로 개최하여 국제적인 역량을 발휘하고 있습니다. 앞으로도 이런 국제화 노력을 키워 나가야 할 것입니다. 올해 6월에는 대한신경과학회의 영문학술지(Journal of Clinical Neurology)의 IF가 발표되었는데 0.44로 다른 학술지보다 우수한 평가를 받았으며 앞으로도 IF를 높이는 데 회원들이 더욱 노력해야 할 것입니다.

올해 11월 4일-6일(목-토)까지 학술대회가 대전 컨벤션 센터(DCC)에서 개최됩니다. "Integrated Diversity"의 캐치 프레이즈로 다양한 프로그램이 준비되어 있습니다. 회원들이 많이 참가하여 지식의 습득, 학술적 의견 교환, 친목도모 등을 위해 예년과는 다소 다르게 준비하였습니다. 그리고 자학회, 인접학회, 신경과개원의협의회와의 충분한 의견교환을 통해 프로그램을 조정했습니다.

다양한 분야의 최신 지견의 소개를 목적으로 review 프로그램, 의료정책에 대한 강의, 여러 분야의 초청강의, 워크숍, 심포지엄 및 satellite 심포지엄, 국제적인 석학인 Samuel Wiebe, Thomas Brandt 교수의 특별강의(plenary lecture)가 예정되어 있습니다. 이번 학술대회는 scientific session 중에도 review course를 동시에 진행하여 회원들의 관심과 참여도를 증진시키려 합니다. 그리고 심포지엄 등의 강의 내용에 대한 전문의 시험의 반영을 고려하고 있습니다. 회원들의 친목과 화합을 위해 불링대회 등의 social 프로그램을 예정하고 있습니다.

그리고 11월 7일(일)은 수련위원회에서 준비한 전공의 및 정회원을 위한 교육이 있습니다.

앞으로 여러가지 규제에 의해 학술대회의 후원이 많이 힘들어질 것으로 판단합니다. 따라서 학술대회 운영의 변화가 불가피하고 회원들께서도 어려움이 있을 수 있으며 그럴수록 회원들의 많은 협조가 필요합니다. 대한신경과학회는 학술대회 진행에서 회원들의 의견이나 제안을 열린 마음으로 받고자 합니다. 학술대회를 위해 좋은 의견을 서슴치 말고 알려 주시기 바랍니다. 학술 프로그램이 모든 회원들에게 더 유익하고 가치 있도록 최선을 다할 것입니다. 이렇듯 회원들의 통일된 역량이 하나로 결집됨으로써 대한신경과학회의 국내외적 위상은 한 단계씩 높은 곳을 향하여 전진할 것입니다.

학술대회를 준비하느라 바쁘게도 불구하고 노력해 주신 학술위원들에게 회원을 대표하여 감사드립니다.

제29차 종합학술대회에 회원 여러분을 초대합니다. 제29차 통합학술대회에 많은 회원 여러분들이 적극적으로 참여하시고, 회원 간의 활발한 토론과 교류를 통해 회원 모두의 학문적 발전이 있기를 기원합니다. 감사합니다.



## Greeting



Chairman  
Byung-In Lee

### Dear Colleagues, Ladies and Gentlemen:

On the behalf of Korean Neurological Association(KNA), I proudly announce that the 29th Annual Congress of KNA is going to be held in Daejeon from November 4th to November 7th, 2010. Since KNA adopted the policy of holding only one congress annually in 2007, the annual congress has rapidly progressed to be the single, most important event of KNA promoting our capabilities in neurological care, research, education, and our friendship. I have no doubt that the 29<sup>th</sup> Congress will provide us the best what we need for the promotion of our professional career.

The Main Theme of 29<sup>th</sup> Annual Congress commemorating the first decade of 21<sup>st</sup> Century is “**Integrated Diversity**” indicating the ultimate harmony of many contrasts existing in Neurology and our practicing environments. The Scientific program of 29<sup>th</sup> Congress consists of Lectures, Update Reviews, Educational Courses, Workshops, and Symposiums, in addition to Platform and Poster Presentations. Two outstanding international speakers, Prof. Samuel Wiebe in Epilepsy and Prof. Thomas Brandt in Neuro-otology, will tell us about the Recent Advances in each fields. Most of our excellent local opinion leaders as well as our sister societies (Movement Disorders, Dementia, Clinical Neurophysiology, Headache, Neurocritical Care, and Sleep Disorders) are going to participate to the Congress to promote the quality of program as the highest. In this year, for the purpose of promoting KNA as one of Leading Societies in our region, KNA launched a new program, “**Neurology Asia**”, in which Prof. Samuel Wiebe (Canada), Prof. Sunao Kaneco (Japan), Prof. Yang-Hsin Shih (Taiwan), and Dr. SK Choi (Korea) will provide excellent discussions about “**How to Promote Collaborations among Asian Epilepsy Communities**”. It should also be acknowledged that the Session for “**Epilepsy Management**” is going to be presented in English as an initial attempt of KNA being more globally interactive. Daejeon Convention Center, located in the center of our nation, is a new, beautifully designed and highly equipped complex, which was built under the modern concept of multifunctional purposes, thus we are going to experience its excellent atmosphere during our attendance to the Congress.

On the behalf of KNA, I express my deepest regard to all members of the Society for excellent contributions and dedications toward the progress of KNA. I welcome you all and encourage you to participate to the 29<sup>th</sup> Congress to feel our close ties and to experience the highest standard of our professional activities. Hope seeing you all in Daejeon.

## 준비위원회

### 대한신경과학회 임원

위원회명	성명	소속병원	위원회명	성명	소속병원
회장	이병인	연세의대	법제이사	박건우	고려의대
이사장	김주한	한양의대	홍보이사	김상호	동아의대
부회장	이창훈	이창훈신경내과의원	정보이사	임정근	계명의대
	김재우	동아의대	기획이사	성기범	순천향의대
부이사장	김승민	연세의대	국제이사	전범석	서울의대
감사	이동국	대구가톨릭의대	무임소(노인신경의학회)	고임석	국립의료원
감사	황연미	한마음신경내과	무임소(국문편집)	김명규	전남의대
총무이사	김희태	한양의대	무임소(의무)	서만옥	전북의대
학술이사	김지수	서울의대	무임소(개원의협의회)	안재훈	신구의원
수련이사	박기덕	이화의대	무임소(교육)	오건세	울지의대
고시이사	정진상	성균관의대	무임소(정책)	홍승봉	성균관의대
편집이사	이상암	울산의대	용어위원장	송흥기	한림의대
재무이사	이규용	한양의대	교과서편찬위원장	박성호	서울의대
보형이사	김영인	가톨릭의대			

### 학술위원회

위원회명	성명	소속병원	위원회명	성명	소속병원
위원장	김지수	서울의대	위원	손영민	가톨릭의대
간사	홍윤호	서울의대	위원	신병수	전북의대
위원	강지훈	제주의대	위원	안태범	경희의대
위원	김대성	부산의대	위원	이경복	순천향의대
위원	김병건	울지의대	위원	이서영	강원의대
위원	김병조	고려의대	위원	이호원	경북의대
위원	김지현	단국의대	위원	정성해	충남의대
위원	김현영	한양의대	위원	정지향	이화의대
위원	김호진	국립암센터	위원	최성민	전남의대
위원	마효일	한림의대	위원	한병인	두(頭)신경과 의원
위원	문소영	아주의대	위원	황성희	한림의대
위원	박수철	연세의대			



# 학술대회장

## 1st Floor Room

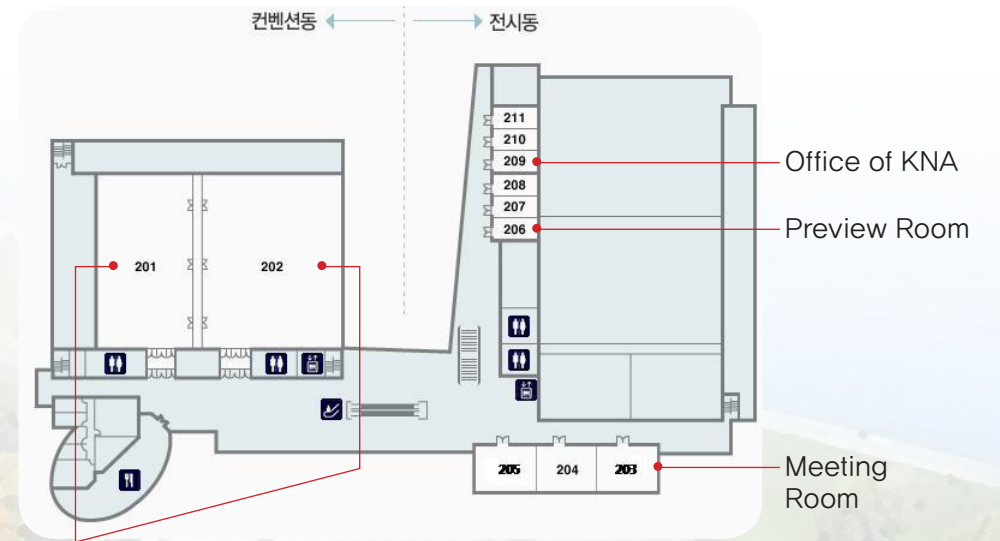


Registration desk

Booth  
Poster presentation

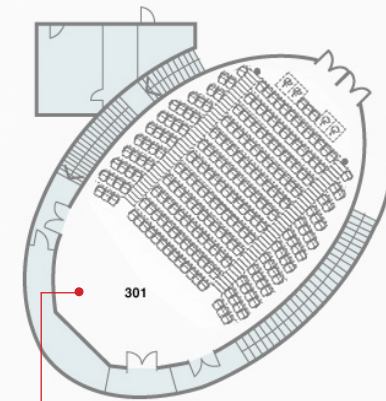
- Scientific session
- Evening symposium / Workshop
- Morning lecture
- Parallel symposium
- Focused group meeting

## Grand Ball Room



- Update review / Memorial lecture
- Luncheon symposium / Special lecture / General assembly
- Neurology Asia / Integrated scientific session

## 3rd Floor Room



- Parallel symposium
- Research writing



## 일정안내

• Nov 4th, Thur, Day 1

Time		Grand Ball Room		1st Floor Room								3rd Floor Room	
		201	202	101	102	103	104	105	106	107	108		
08:00-09:00	Registration												
09:00-10:20	Updates Review I	Review of Neurology Updates I											
10:20-10:40	Coffee Break												
10:40-11:40	Memorial Lecture (유당 명호진 교수)	우리사회에서 평소 접하는 상상과 진실											
11:40-12:30	Updates Review II	Review of Neurology Updates II											
12:30-13:30	Luncheon Symposium I	2010 보건 의료 정책의 변화 및 향후 전망											
13:30-14:50	Updates Review III	Review of Neurology Updates III											
14:50-15:10	Coffee Break												
15:10-16:10	Special Lecture	Translational Bioinformatics for Personalizing Healthcare											
16:10-17:00	Updates Review IV	Review of Neurology Updates IV											
17:00-18:00	Dinner Break												
18:30-20:00	Evening Symposium /Workshop (WS) I	Social Program (Bowling Tournament)	Movement Disorders: Learning from Video	WS: Canalith Repositioning Maneuvers: Tx of BPPV	Common Sleep Disorders That Neurologists Should Know	Intraoperative Neurophysiologic Monitoring	Research Writing 편집위원회						

- **Recent Update** \_신경과 각분야에서 최근 1년 동안 새롭게 update된 내용들을 소개하고 알리는 강의임
- **Memorial lecture** \_고 명호진교수 기념강연회

## 일정안내

• Nov 5th, fri, Day 2

Time		Grand Ball Room		1st Floor Room								3rd Floor Room	
		201	202	101	102	103	104	105	106	107	108		
08:00-09:20	Morning Lecture			Neuroanatomy		Genetics for Neurologists		Sleep Disorders in Common Neurologic Disease					
09:30-10:00	General Assembly	개회식 및 총회											
10:00-11:00	Plenary Lecture I	Epilepsy Surgery: Evidence & Outcome											
11:00-11:15	Coffee Break												
11:15-12:15	Scientific Session(SS) I & Parallel Symposium(SY) I			SS: Stroke I		SS: Dementia I		SS: Movement Disorder I		SS: Epilepsy		SY: Emerging Therapy in Neuromuscular Disorders	
12:30-13:30	Luncheon Symposium II	Luncheon Symposium II Creutzfeldt-Jakob disease											
13:30-14:50	Poster Presentation I												
15:00-16:30	Parallel Symposium (SY) II	Neurology Asia: How to Enhance Regional Collaborations in Epilepsy Care and Research?		SY: Combination of Antiplatelet Drugs		SY: Recent Advances in Alzheimer's Therapy		SY: Recent Issues in Movement Disorder		SY: Neurocritical Care			
16:30-16:45	Coffee Break												
16:45-17:45	Scientific Session(SS) II & Parallel Symposium(SY) II			SS: Stroke II		SS: Muscle & Nerve I		SS: Headache & Pain		SS: Neuroscience /General Neurology		SY: Issues in Epilepsy Management	
17:45-18:30	Dinner Break												
18:30-20:30	Evening Symposium /Workshop (WS) II	이사장 초청 만찬 유성호텔 2층 구룡	Junior Faculty Development Program	Debates in Neurology Practice: Thrombolysis		WS: Needle EMG		WS: Cognitive Scales for Clinicians					

- **이사장 초청 만찬** \_Scientific Session II 이후, 초청장을 받으신 분들만 참석하심 (차량편은 학회장소에서 6시 15분 출발 / 일시 : 11월 5일(금) 6시 30분 / 장소 : 유성호텔 중식당)



## 일정안내

• Nov 6th, sat, Day 3

Time		Grand Ball Room		1st Floor Room								3rd Floor Room
		201	202	101	102	103	104	105	106	107	108	
08:00-09:30	Integrated Educational Course	Management of Common Neurological Disorders : Case-based Learning	Recent Advances in Neuroimaging	Focused Group Meetings								
				FGM: Acute Cardioembolic Stroke Registry Meeting	FGM: ALS/MND Research Group Meeting	FGM: Nutrition in Clinical Neurology Research Meeting	FGM: Drug Resistant Epilepsy Meeting					
09:30-09:45	Coffee Break											
09:45-10:45	Scientific Session(SS) III / Parallel Symposium (SY) III			SS: Stroke III	SS: Sleep	SS: Neurotology	SY: MS & NMO	SY: Migraine aura & their subforms				
11:00-12:00	Plenary Lecture II	Management of Dizzy Patients										
12:20-13:20	Luncheon Symposium III	Luncheon Satellite Symposium III-1	Luncheon Satellite Symposium III-2									
13:30-14:30	Scientific Session(SS) IV / Parallel Symposium (SY) IV		SS: Epilepsy II	SS: Stroke IV	SS: Dementia II	SS: Muscle & Nerve II	SS: Movement disorder II	SY: Evaluation of vestibular disorders				
14:40-16:00	Poster Presentation II											
16:00-16:15	Coffee Break											
16:15-18:00	Integrated Scientific Session	Integrated Scientific Session (통합 구연)										
18:00-19:00	Closing Ceremony	폐회 및 시상										

## 보수교육

• Nov 7th, sun, 2층 201호

09:00~09:10	인사말	김주한 이사장 (한양의대)
09:10~09:50	Updated information on several cardiac diseases for neurologists	송재관 (울산의대 심장내과)
09:50~10:30	Lung protective mechanical ventilation	김영삼 (연세의대 호흡기내과)
10:30~10:50	Coffee Break	
10:50~11:30	Sepsis and septic shock	이재갑 (한림의대 감염내과)
11:30~12:00	인서비스시험 성적 우수자 시상	
12:00~12:40	점심시간 <b>ILDONG</b> 연동제약	
12:40~13:30	임상 Neuropsychological test	정지향 (이화의대)
13:30~14:20	Transcranial Doppler (TCD)	이준홍 (국민보훈공단일산병원)
14:20~14:50	전문의 고시 객관화임상술기시험 (OSCE) 설명회	고시위원회



## 세부일정

• Nov 4th, Thur, Day 1

	Hall name	Time	Title	
Updates Review I	Grand Ballroom(201-202)	09:00-10:20	Review of Neurology Updates I	Chairs: 박성파(경북의대) & 김경환(연세의대)
		09:00-09:25	Stroke	홍근식(인제의대)
		09:25-09:50	Dementia	문소영(아주의대)
		09:50-10:15	Epilepsy	손영민(가톨릭의대)
Memorial Lecture	Grand Ballroom(201-202)	10:40-11:40	우리사회에서 평소 접하는 상상과 진실	Chair: 이광우(서울의대) 성주호(University of Minnesota, USA)
Updates Review II	Grand Ballroom(201-202)	11:40-12:30	Review of Neurology Updates II	Chairs: 하정상(영남의대), 김희태(한양의대)
		11:40-12:05	Movement disorders	김중석(가톨릭의대)
		12:05-12:30	Neuromuscular disorders	성정준(서울의대)
Luncheon Symposium I	Grand Ballroom(201-202)	12:30-13:30	2010 보건의료정책의 변화 및 향후 전망	Chair: 서정규(경북의대) 이경권 변호사(법무법인대세)
Updates Review III	Grand Ballroom(201-202)	13:30-14:50	Review of Neurology Updates III	Chairs: 오건세(울지의대) & 조필자(국립중앙의료원)
		13:30-13:55	MS/NMO	김병준(성균관의대)
		13:55-14:20	Headache	박정욱(가톨릭의대)
Special Lecture	Grand Ballroom(201-202)	14:20-14:45	Sleep disorders	김지현(단국의대)
		15:10-16:10	Translational Bioinformatics for Personalizing Healthcare	Chair: 노재규(서울의대) 김주한(서울의대 의료정보학)
Updates Review IV	Grand Ballroom(201-202)	16:10-17:00	Review of Neurology Updates IV	Chairs: 임병훈(경상의대) & 김재문(충남의대)
		16:10-16:35	Neurotology	이형(계명의대)
		16:35-17:00	Neurocritical care	김규식(국민건강보험공단 일산병원)
Evening Symposium /Workshop(WS) I	1st Floor Room (101-102)	18:30-20:30	Movement Disorders: Learning from Video	Moderators: 박건우(고려의대)
		18:30-18:55	Eye movement in movement disorders	강지훈(제주대의대)
		19:00-19:25	Drug-induced movement disorders	정선주(울산의대)
		19:30-19:55	Hyperkinetic movement disorders	백종삼(인제의대)
		20:00-20:25	Movement disorders in hereditary diseases	조진환(성균관의대)

## 세부일정

• Nov 4th, Thur, Day 1

	Hall name	Time	Title	
Evening Symposium /Workshop(WS) I	1st Floor Room (103-104)	18:30-20:00	WS: Canalith Repositioning Maneuvers: Tx of BPPV	Moderators: 김재일(단국의대) & 김병건(울지의대)
		18:30-19:00	Posterior canal	이태경(순천향의대)
		19:00-19:30	Horizontal canal	오선영(전북의대)
		19:30-19:50	Anterior canal	정성해(충남의대)
Evening Symposium /Workshop(WS) I	1st Floor Room (105-106)	18:30-20:30	Common Sleep Disorders That Neurologists Should Know	Moderators: 홍승봉(성균관의대) & 김명규(전남의대)
		18:30-18:50	Insomnia	김지연(대구가톨릭의대)
		18:50-19:10	Sleep-disordered breathing	양광익(순천향의대)
		19:10-19:30	Narcolepsy and hypersomnia	주은연(성균관의대)
		19:30-19:50	Circadian rhythm sleep disorder	남현우(서울의대)
		19:50-20:20	Parasomnia and sleep-related movement disorder(restless legs syndrome)	조용원(계명의대)
		20:20-20:30	Q & A	
		18:30-21:10	Intraoperative Neurophysiologic Monitoring	Moderators: 김영인(가톨릭의대)
		18:30-18:45	Issues of intraoperative neuromonitoring	김영인(가톨릭의대)
		18:45-19:00	Sensory system and neuromonitoring	조중양(인제의대)
Evening Symposium /Workshop(WS) I	1st Floor Room (107-108)	19:00-19:15	Motor system and neuromonitoring	임성철(가톨릭의대)
		19:15-19:45	Peripheral nervous system and neuromonitoring	안석원(중앙의대)
		19:45-20:00	BAEP and Cranial nerve monitoring	이은미(울산의대)
		20:10-20:25	Spinal cord monitoring	박경석(서울의대)
		20:25-20:40	Monitoring and vascular surgery	박민수(영남의대)
		20:40-20:55	Cortical mapping and electrocorticography	서대원(성균관의대)
		20:55-21:10	Subcortical mapping and deep brain stimulation	손영민(가톨릭의대)
		18:30-20:30	Research Writing 편집위원회	Moderator: 이상암
		18:30-20:30	Computer-assisted research writing in English	Adam Turner (Hanyang University)
		Evening Symposium /Workshop(WS) I	3rd Floor Room	18:30-20:30
18:30-20:30	Computer-assisted research writing in English			Adam Turner (Hanyang University)



## 세부일정

• Nov 5th, fri, Day 2

	Hall name	Time	Title	
Morning Lecture	1st Floor Room (101-102)	08:00-09:20	<b>Neuroanatomy</b>	Chairs: 김영현(전북의대) & 최진영(건국의대)
		08:00-08:20	Cerebral cortex	김숙희(건국의대)
		08:20-08:40	Cerebrovascular anatomy & vascular territory	홍지만(아주의대)
		08:40-09:00	Functional neuroanatomy in movement disorders	고성범(고려의대)
	1st Floor Room (103-104)	09:00-09:20	Neuroanatomy of peripheral and central vestibular systems	최광동(부산의대)
		08:00-09:20	<b>Genetics for Neurologists</b>	Chairs: 선우일남(연세의대) & 김병준(성균관의대)
	1st Floor Room (105-106)	08:00-08:40	Basic concepts and future perspectives of neurogenetics in the era of next-generation genomics	정선주(울산의대)
		08:40-09:20	Genetic testing, counseling & identifying disease genes	기창석(성균관의대, 진단검사의학과)
		08:00-09:20	<b>Sleep Disorders in Common Neurologic Disease</b>	Chairs: 이상암(울산의대) & 김진호(조선의대)
		08:00-08:20	Sleep disturbances in dementia	이호원(경북의대)
	1st Floor Room (105-106)	08:20-08:40	Insomnia and REM sleep behavior disorder in Parkinsonism	마효일(한림의대)
		08:40-09:00	Sleep apnea and stroke	윤창호(인하의대)
09:00-09:20		Parasomnia versus nocturnal seizures	신원철(경희의대)	
Plenary Lecture I	Grand Ballroom(201-202)	10:00-11:00	<b>Epilepsy Surgery: Evidence &amp; Outcome</b>	Chair: 김주환(한양의대) Samuel Wiebe(University of Calgary, Canada)
Scientific Session(SS) I & Parallel Symposium(SY) I	1st Floor Room (101-102)	11:15-12:15	<b>SS: Stroke I</b>	Chairs: 김종성(울산의대) & 조기현(전남의대)
	1st Floor Room (103-104)	11:15-12:15	<b>SS: Dementia I</b>	Chairs: 나덕렬(성균관의대) & 이재홍(울산의대)
	1st Floor Room (105-106)	11:15-12:15	<b>SS: Movement Disorder I</b>	Chairs: 전범석(서울의대) & 김재우(동아의대)
	1st Floor Room (107-108)	11:15-12:15	<b>SS: Epilepsy</b>	Chairs: 허경(연세의대) & 이성수(원주의대)
	3rd Floor Room	11:15-12:15	<b>SY: Emerging Therapy in Neuromuscular Disorders</b>	Chairs: 권기환(한림의대) & 김승현(한양의대)
11:15-11:40		Enzyme replacement therapy	김대성(부산의대)	
11:45-12:10		Anti-sense oligonucleotide therapy	황종익(고려의대)	
Luncheon Symposium II	Grand Ballroom(201-202)	12:30-13:30	<b>Luncheon Symposium II Creutzfeldt-Jakob Disease</b>	Chair: 김상윤(서울의대)
		12:30-12:50	CJD 질환 실험실 진단, 감시 및 연구 현황	주영란 박사 (질병관리본부 국립보건연구원 신경계바이러스과)
		12:50-13:10	Clinical diagnosis of CJD	박수철(연세의대)
		13:10-13:30	NeuroPrion 2010	김상윤(서울의대)

## 세부일정

• Nov 5th, fri, Day 2

	Hall name	Time	Title	
	Grand Ballroom(201)	15:00-16:30	<b>Neurology Asia: How to Enhance Regional Collaborations in Epilepsy Care and Research?</b>	Chair: 이병민(연세의대)
		15:05-15:25	Pharmacogenetics in epilepsy: current status and future directions	Sunao Kaneco(President, Japan Epilepsy Society, Japan)
		15:25-16:05	Clinical Trials in Asia: current status and future (1) AEDs trial (2) Epilepsy surgery	Dr. SK Choi(Janssen Cilag) Dr. Yang-Hsin Shih(Taipei Veterans General Hospital, Taiwan)
		16:05-16:25	Collaborations in Epilepsy Research: The way forward	Samuel Wiebe(University of Calgary, Canada)
Parallel Symposium(SY) II	1st Floor Room (101-102)	15:00-16:30	<b>SY: Combination of Antiplatelet Drugs</b>	Chairs: 윤병우(서울의대) & 이병철(한림의대)
		15:00-15:20	The mechanism of action of oral antiplatelet agents	이경복(순천향의대)
		15:20-15:40	Evidence of effectiveness of various antiplatelet drugs	유경호(한림의대)
		15:40-16:10	Evidence of combination anti-PLT therapy	구자성(가톨릭의대)
		16:10-16:30	Future antiplatelet drugs in ischemic stroke	권순억(울산의대)
	1st Floor Room (103-104)	15:00-16:30	<b>SY: Recent Advances in Alzheimer's Therapy</b>	Chairs: 한설희(건국의대) & 김범생(가톨릭의대)
		15:00-15:20	Anti-amyloid therapy	김상윤(서울의대)
		15:20-15:40	Immunotherapy	이재홍(울산의대)
		15:40-16:00	Antitau therapy	정지향(이화의대)
		16:00-16:20	Dimebon & mitochondrial-based therapy	박경원(동아의대)
1st Floor Room (105-106)	15:00-16:30	<b>SY: Recent Issues in Movement Disorder</b>	Chairs: 서만옥(전북의대)	
	15:00-15:25	Clinical implication of alpha synuclein	안태범(경희의대)	
	15:30-15:55	Vascular factors in Parkinson disease	이필휴(연세의대)	
	16:00-16:25	Clinical appraisal of alternative treatment in movement disorders	최성민(전남의대)	
	15:00-16:30	<b>SY: Neurocritical Care</b>	Chairs: 이광수(가톨릭의대) & 박기덕(이화의대)	
1st Floor Room (107-108)	15:00-15:30	Medical treatments in subarachnoid hemorrhage	김규식(국민건강보험공단 일산병원)	
	15:30-16:00	Monitoring of neurocritical patients	전상범(아산병원)	
	16:00-16:30	Syncope: How to approach clinically	권석범(한림의대)	



## 세부일정

• Nov 5th, fri, Day 2

	Hall name	Time	Title		
Scientific Session(SS) II & Parallel Symposium(SY) II	1st Floor Room (101-102)	16:45-17:45	SS: Stroke II	Chairs: 이광호(성균관의대) & 장대일(경희의대)	
	1st Floor Room (103-104)	16:45-17:45	SS: Muscle & Nerve I	Chairs: 최영철(연세의대) & 주인수(아주의대)	
	1st Floor Room (105-106)	16:45-17:45	SS: Headache & Pain	Chairs: 정진상(성균관대의대) & 김민기(서울의료원)	
	1st Floor Room (107-108)	16:45-17:45	SS: Neuroscience/General Neurology	Chairs: 이경민(서울의대) & 고재영(울산의대)	
	3rd Floor Room	16:45-17:45	SY: Issues in Epilepsy Management	Chairs: 이상도(계명대의대)	
		16:45-17:05	Antiepileptic drug therapy: when to start and stop?	허경(연세의대)	
		17:05-17:25	Comorbidities of epilepsy: prevalence and management?	Samuel Wiebe(University of Calgary, Canada)	
	Evening Symposium /Workshop(WS) II	1st Floor Room (101-102)	18:30-20:30	Junior Faculty Development Program	Moderator: 박수철(연세의대)
			18:30-19:00	보건복지가족부 보건의료기술 연구사업: 현황 및 전망	정통령 사무관(보건복지가족부 보건산업기술과)
			19:00-19:20	신진과학자 양성 사업	김정민 연구원(보건산업진흥원)
19:30-20:00			정부 과제 연구 계획서: 작성 요령 및 심사	김승현(한양대의대)	
1st Floor Room (103-104)		20:00-20:20	정부 연구 과제 수행 및 성과 관리	김동익(동국대의대)	
		18:30-20:30	Debates in Neurology Practice: Thrombolysis	Moderators: 김경문(성균관대의대) & 배희준(서울의대)	
		18:30-19:00	Current status of thrombolytic therapy in acute ischemic stroke	김경문(성균관대의대)	
		19:00-19:30	Review of inclusion and exclusion criteria for thrombolysis	박종무(울지의대)	
1st Floor Room (105-106)		19:30-20:00	Thrombolysis in uncommon ischemic stroke	남효석(연세의대)	
		20:00-20:30	New mechanical techniques for intra-arterial thrombolysis	권오기(서울의대, 신경외과)	
	18:30-20:30	WS: Needle EMG	Moderators: 임경근(계명대의대) & 이동국(대구가톨릭대의대)		
	18:30-19:20	Surface landmark for localization of needle	배종석(인제의대)		
1st Floor Room (107-108)	19:30-20:20	Waveform analysis	손은희(충남의대)		
	18:30-20:30	WS: Cognitive Scales for Clinicians	Moderators: 한일우(용인효자병원) & 어경윤(동국대의대)		
	18:30-19:00	NPI, IADL & IQ code	최성혜(인하의대)		
	19:00-19:30	CDR & GDS	김정은(이화대의대)		
	19:30-20:00	K-MOCA	강연욱(한림의대, 심리학과)		
	20:00-20:30	Clock drawing test & 3MS	이애영(충남의대)		

## 세부일정

• Nov 6th, fri, Day 3

	Hall name	Time	Title			
Integrated Educational Course	Grand Ballroom(201)	08:00-09:30	Management of Common Neurological Disorders: Case-based Learning	Chairs: 정대수(부산의대) & 하충건(인하의대)		
		08:00-08:30	Stroke	한상원(인제의대)		
		08:30-09:00	Epilepsy	이서영(강원대의대)		
		09:00-09:30	Movement disorder	김한준(서울의대)		
	Grand Ballroom(202)	08:00-09:30	Recent Advances in Neuroimaging	Chair: 신동진(가천의대)		
		08:00-08:30	CT and MR perfusion imaging	이덕희(울산의대, 영상의학과)		
		08:30-09:00	Diffusion tensor MRI: principles and analysis	오경수(서울대학교, BK21 division of Human Life Science)		
		09:00-09:30	Functional neuroimaging: recent developments	박해경(연세의대, 영상의학과)		
		Focused Group Meetings	1st Floor Room (101-102)	08:00-9:30	FGM : Acute Cardioembolic Stroke Registry Meeting	Moderator: 권순익(울산의대)
			1st Floor Room (103-104)	08:00-9:30	FGM : ALS/MND Research Group Meeting	Moderator: 홍윤호(서울의대)
1st Floor Room (105-106)	08:00-9:30		FGM : Nutrition in Clinical Neurology Research Meeting	Moderator: 김용재(이화대의대)		
1st Floor Room (107-108)	08:00-9:30		FGM : Drug Resistant Epilepsy Meeting	Moderator: 이병인(연세의대)		
Scientific Session(SS) III / Parallel Symposium(SY) III	1st Floor Room (103-104)		09:45-10:45	SS: Stroke III	Chairs: 허지희(연세의대) & 이준홍(일산공단병원)	
	1st Floor Room (105-106)		09:45-10:45	SS: Sleep	Chairs: 김원주(연세의대) & 윤창호(인하의대)	
	1st Floor Room (107-108)	09:45-10:45	SS: Neurology	Chairs: 성기범(순천향의대) & 김재일(단국대의대)		
	1st Floor Room (107-108)	09:45-10:45	SY: MS & NMO	Chairs: 김승민(연세의대) & 김광국(울산의대)		
		09:45-10:00	Management of steroid refractory relapse and suboptimal response to disease modifying drug in multiple sclerosis	임영민(울산의대)		
		10:00-10:15	Anti-aquaporin 4 antibody in the pathogenesis of NMO	김우준(국립암센터)		
		10:15-10:30	Proposal of standard MRI protocol for MS & NMO	문원진(건국의대 영상의학과)		
		10:30-10:40	Introduction of nationwide MS/NMO registry	김병조(고려의대)		
		10:40-10:45	Q & A			

세부일정

• Nov 6th, sat, Day 3

	Hall name	Time	Title	
Scientific Session(SS) III / Parallel Symposium(SY) III	3rd Floor Room	09:45-10:45	SY: Migraine aura & their subforms	Chairs: 박규현(부산의대) & 김용재(이화대의대)
		09:45-10:05	Typical aura: Pathogenesis & Epidemiology	문희수(성균관의대)
		10:05-10:25	Typical aura: Symptomatology	주민경(한림의대)
		10:25-10:45	Basilar type migraine, hemiplegic migraine & retinal migraine	김병건(울지의대)
Plenary Lecture II	Grand Ballroom(201-202)	11:00-12:00	Management of Dizzy Patients	Chair: 김지수(서울의대) Thomas Brandt (University Munich, Germany)
Luncheon Symposium III	Grand Ballroom(201)	12:20-13:20	Luncheon Satellite Symposium III-1 (향설상 수상자 강연)	Chairs: 박성호(서울의대) & 이승훈(서울의대)
	Grand Ballroom(202)	12:20-13:20	Luncheon Satellite Symposium III-2 (명인학술상 수상자 강연)	Chair: 이광우(서울의대) & 배종석(인제의대)
Scientific Session(SS) IV / Parallel Symposium(SY) IV	Grand Ballroom(202)	13:30-14:30	SS: Epilepsy II	Chairs: 송홍기(한림의대) & 박현미(가천의대)
	1st Floor Room (101-102)	13:30-14:30	SS: Stroke IV	Chairs: 김제(충남의대) & 황성희(한림의대)
	1st Floor Room (103-104)	13:30-14:30	SS: Dementia II	Chairs: 최경규(이화의대) & 양동원(가톨릭의대)
	1st Floor Room (105-106)	13:30-14:30	SS: Muscle & Nerve II	Chairs: 이상수(충북의대) & 김병준(성균관의대)
	1st Floor Room (107-108)	13:30-14:30	SS: Movement disorder II	Chairs: 이종식(울산의대) & 이광수(가톨릭의대)
	3rd Floor Room	14:00-15:00	SY: Evaluation of vestibular disorders	Chairs: 정경천(경희의대)
		14:00-14:30	Evaluation of otolithic function	김선혜(부산의대)
		14:30-15:00	Imaging the vestibular system and its disorders	Thomas Brandt (University Munich, Germany)
Integrated Scientific Session	Grand Ballroom(201-202)	16:15-18:00	Integrated Scientific Session(통합 구연)	Chairs: 이병인(연세의대) & 김주환(한양의대)





## Integrated Scientific Session(통합 구연 세션)

시간: 2010년 11월 6일 16:15-18:00  
장소: Grand Ballroom

분야별 구연 세션과 달리, 제출된 모든 분야의 초록 중에서 심사를 통해 미리 선정된 우수 연제를 발표하고 토론함. 발표자는 우수 연제상에 자동 선정됨.

### Chairs

Prof. 이병인 (연세의대) & 김주한 (한양의대)

### Presenters & corresponding authors

Outcomes of autologous bone marrow stem cell therapy in ALS patients and analysis of factors affecting prognosis of stem cell therapy: Current status and future directions of stem cell therapy for ALS patients.	김승현 (한양의대)
The effect of IV amantadine on On-FOG	김영은 (서울의대)
Predictors of quality of life in seizure-free patients receiving antiepileptic drug monotherapy	박진성 (경북의대)
Topography of cortical thinning in PIB-negative vs. PIB-positive subcortical Vascular cognitive impairment	서상원 (성균관의대)
Validation of Stroke Screening Questionnaire	조용진 (인제의대)
The role of Apoptosis Signal-Regulating Kinase 1 as a partner of biopolymers in neuronal cell death	조경주 (연세의대)

## Evening Symposium Movement Disorders: Learning from Videos

November 4, 2010  
18:30-20:30  
1st Floor Room, 101 & 102

### Moderators

Prof. 박건우 (고려의대) & Prof. 손영호 (연세의대)

### Program Overview

This program will describe typical and atypical presentations of movement disorders and provide an opportunity of learning from videos.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge:

1. Abnormal eye movements in movement disorders.
2. Clinical manifestations of drug-induced movement disorders.
3. Clinical spectrum of hyperkinetic movement disorders.
4. Abnormal movements in various hereditary diseases.

### Speakers

18:30-18:55	Eye movements in movement disorders	Prof. 강지훈 (제주대의대)
19:00-19:25	Drug-induced movement disorders	Prof. 정선주 (울산의대)
19:30-19:55	Hyperkinetic movement disorders	Prof. 백종삼 (인제의대)
20:00-20:25	Movement disorders in hereditary diseases	Prof. 조진환 (성균관의대)



## Workshop Canalith Repositioning Maneuvers

November 4, 2010  
18:30-20:30  
1st Floor Room, 103

### Moderators

Prof. 김재일 (단국대의대) & Prof. 김병건 (울지의대)

### Program Overview

Benign paroxysmal positional vertigo (BPPV) is the most common vestibular disorder causing vertigo, and it is induced by changes in the head position relative to the direction of gravity. Otolithic debris detaching from the utricular macule is known to give rise to vertigo in this disorder by entering the semicircular canals (canalolithiasis) or by attaching to the cupula and thereby making it heavier than the endolymph (cupulolithiasis). Canalith repositioning maneuvers (CRMs) have been developed to remove the otolithic debris from the canal or to detach otolithic debris from the cupula. The application of an appropriate CRM results in immediate resolution of the vertigo in BPPV. This workshop is designed to help clinicians understand the characteristic patterns of positional nystagmus in BPPV involving each semicircular canal and the CRMs for each type of BPPV.

### Learning Objectives

Attending this workshop course will provide participants with the following knowledge and skills:

1. Characteristic patterns of positional nystagmus induced in each type of BPPV.
2. The ability to apply the appropriate CRM for each type of BPPV.
3. Recent studies and their results regarding CRMs.

### Speakers

18:30-19:00	Posterior canal	Prof. 이태경 (순천향의대)
19:00-19:30	Horizontal canal	Prof. 오선영 (전북의대)
19:30-19:50	Anterior canal	Prof. 정성해 (충남의대)

## Evening Symposium Common Sleep Disorders that Neurologists Should Know

November 4, 2010  
18:30-20:30  
1st floor room, 105-106

### Moderators

Prof. 홍승봉 (성균관의대) & Prof. 김명규 (전남의대)

### Program Overview

This workshop will offer an introductory course on sleep medicine for neurologists. The sessions will describe clinical features, diagnostic evaluation, and treatment options for common sleep disorders including insomnia, hypersomnia, sleep-disordered breathing disorders, circadian rhythm sleep disorder, parasomnia, and sleep-related movement disorder using a case-based approach.

### Learning Objectives

Attending this workshop will provide the participants with the following knowledge and skills:

1. Classification of insomnia and evaluation methods and treatment options for insomnia.
2. Sleep-disordered breathing disorders, including obstructive sleep apnea, central apnea, and sleep-related hypoventilation, and the ability to plan treatments.
3. Clinical features of narcolepsy and other types of hypersomnia, and diagnosis and treatment options for central hypersomnia.
4. Circadian rhythm, how to assess circadian rhythm sleep disorder (CRSD) in the clinical setting, and treatments for CRSD.
5. Clinical features and differential diagnosis of NREM and REM parasomnia, and treatment options for parasomnia.
6. Diagnosis, evaluation, and management of sleep-related movement disorders including restless legs syndrome.

### Speakers

18:30-18:50	Insomnia	Prof. 김지연(대구가톨릭의대)
18:50-19:10	Sleep-disordered breathing	Prof. 양광익 (순천향의대)
19:10-19:30	Narcolepsy and hypersomnia	Prof. 주은연 (성균관의대)
19:30-19:50	Circadian rhythm sleep disorder	Prof. 남현우 (서울의대)
19:50-20:20	Parasomnia and sleep-related movement disorder (restless legs syndrome)	Prof. 조용원 (계명대의대)
20:20-20:30	Q & A	



## Evening Symposium Intraoperative Neurophysiologic Monitoring

November 4, 2010  
18:30-21:25  
1st Floor Room, 107 & 108

### Moderators

Prof. 김영인 (가톨릭의대)

### Program Overview

Intraoperative neurophysiological monitoring refers to the use of electrophysiological methods to monitor the functional integrity of neural structures (brain, nerves, and spinal cord) during surgery. The most common applications are in neurosurgery, such as spinal surgery; selected brain surgeries; carotid endarterectomy; ENT procedures such as acoustic neuroma resection; and peripheral nerve surgery. Intraoperative monitoring is used to localize neural structures, to test the function of these structures, and for early detection of intraoperative injury in order to facilitate the use of immediate corrective measures. This session will provide an overview of intraoperative monitoring techniques and clinical case presentations for practicing neurologists.

### Learning Objectives

Attending this morning lecture will provide the participants with the following knowledge:

1. Basic principles of intraoperative neurophysiologic monitoring.
2. Principles of sensory and motor systems and the peripheral nervous system underlying neuromonitoring.
3. BAEP and cranial nerve monitoring.
4. Techniques for spinal cord monitoring.
5. Neuromonitoring during vascular surgery.
6. Subcortical mapping and deep brain stimulation.

### Speakers

18:30-18:45	Issues of intraoperative neuromonitoring	Prof. 김영인 (가톨릭의대)
18:45-19:00	Sensory system and neuromonitoring	Prof. 조중양 (인제의대)
19:00-19:15	Motor system and neuromonitoring	Prof. 임성철 (가톨릭의대)
19:15-19:45	Peripheral nervous system and neuromonitoring	Prof. 안석원 (중앙의대)
19:45-20:00	Anesthesia and neuromonitoring	Prof. 이정진 (성균관대의대)
20:00-20:10	Q&A	
20:10-20:25	BAEP and Cranial nerve monitoring	Prof. 강중구 (울산의대)
20:25-20:40	Spinal cord monitoring	Prof. 박경석 (서울의대)
20:40-20:55	Monitoring and vascular surgery	Prof. 박민수 (영남의대)
20:55-21:10	Cortical mapping and electrocorticography	Prof. 서대원 (성균관대의대)
21:10-21:25	Subcortical mapping and deep brain stimulation	Prof. 손영민 (가톨릭의대)

## Morning Lecture Neuroanatomy

November 5, 2010  
08:00 - 09:20 am  
1st Floor Room, 101 & 102

### Chairs

Prof. 김영현 (전북의대) & Prof. 최진영 (건국대의대)

### Program Overview

Neuroanatomy is a fundamental and vital topic for neurologists to better understand neurologic dysfunctions. This session will provide an overview of the important neural structures in the cerebral cortex, cerebral vasculature, basal ganglia, and vestibular system.

### Learning Objectives

Attending this morning lecture will provide participants with the following knowledge:

1. Important structures in the cerebral cortex.
2. Cerebrovascular anatomy.
3. Functional anatomy in movement disorders.
4. Important structures in the central and peripheral vestibular systems.

### Speakers

08:00-08:20 am	Cerebral cortex	Prof. 김숙희 (건국대의대)
08:20-08:40 am	Cerebrovascular anatomy and vascular territory	Prof. 홍지만 (아주대의대)
08:40-09:00 am	Functional anatomy in movement disorders	Prof. 고성범 (고려의대)
09:00-09:20 am	Central and peripheral vestibular systems	Prof. 최광동 (부산의대)



## Morning Lecture Genetics for Neurologists

November 5, 2010  
8:00 - 9:20 am  
1st Floor Room, 103-104

### Chairs

Prof. 선우일남 (연세의대) & Prof. 허균 (아주의대)

### Program overview

Genetic testing can provide a definitive diagnosis of many inherited neurological disorders. The number of disease genes and causative mutations have dramatically increased over the past few years, and genetics has had a huge impact on both the research and practice of neurology. This session will provide an overview and future prospect of neurogenetics, and a review of genetic testing and counseling as well as various methods of identifying disease genes.

### Learning Objectives

Attending this morning lecture will provide the participants with the following knowledge:

1. Basic concepts in neurogenetics;
2. Future perspectives of neurogenetics in post-genomic era;
3. Conventional and emerging methods for genetic testing;
4. Principles and ethical problems of genetic counseling;
5. Principles and strategies of identifying disease genes

### Speakers

08:00-08:40 am	Basic concepts and future perspectives of neurogenetics in the era of next-generation genomics	Prof. 정선주 (울산의대)
08:40-09:20 am	Genetic testing, counseling & identifying disease genes	Prof. 기창석 (성균관의대 진단검사의학과)

## Morning Lecture Sleep Disorders in Common Neurologic Diseases

November 5, 2010  
08:00-9:20 am  
1st Floor Room, 105 & 106

### Chairs

Prof. 이상암 (울산의대) & Prof. 김진호 (조선의대)

### Program Overview

Sleep disorders or complaints are frequently associated with other neurologic conditions. The sleep problems may be directly attributable to the neurologic disorder itself, or to the treatment of the underlying condition. On the other hand, neurologic sequelae are associated with untreated sleep disturbances. In this session, the common sleep disorders that are comorbid in neurologic diseases including degenerative disease, ischemic stroke, and epilepsy will be reviewed in order to provide better insights into the interface between sleep and neurology.

### Learning Objectives

Attending this morning lecture will provide the participants with the following knowledge:

1. Prevalence of sleep disturbances, including insomnia and parasomnia, in patients with dementia or parkinsonism.
2. Diagnostic evaluations and treatment options for sleep disturbances in patients with dementia or parkinsonism.
3. Similarities and differences between parasomnia and nocturnal seizure.
4. Clinical significance of obstructive sleep apnea and its impact on the prognosis in ischemic stroke patients.

### Speakers

08:00-8:20 am	Sleep disturbances in dementia	Prof. 이호원 (경북의대)
08:20-8:40 am	Insomnia and REM sleep behavior disorder in parkinsonism	Prof. 마효일 (한림의대)
08:40-9:00 am	Obstructive sleep apnea and ischemic stroke	Prof. 윤창호 (인하의대)
09:00-9:20 am	Parasomnia versus nocturnal seizures	Prof. 신원철 (경희의대)



## Symposium Emerging Therapies in Neuromuscular Disorders

November 5, 2010  
11:15-12:15  
3rd Floor Room

### Chairs

Prof. 권기한 (한림의대) & Prof. 김승현 (한양의대)

### Program Overview

Research into therapeutic approaches for neuromuscular disorders has made great progress over the past few years. This symposium will address two therapeutic developments for neuromuscular disorders-enzyme replacement therapy and antisense oligonucleotide therapy-which hold great promise for the future.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge:

1. Basic principles underlying enzyme replacement therapy, and its clinical applications.
2. Basic concepts of antisense oligonucleotide therapy, and its prospects for clinical applications.

### Speakers

11:15-11:40 am	Enzyme replacement therapy	Prof. 김대성 (부산의대)
11:45-12:10	Antisense oligonucleotide therapy	Prof. 황중익 (고려의대)

## Symposium Combinations of Antiplatelet Drugs

November 5, 2010  
15:00-16:30  
1st Floor Room, 101 & 102

### Chairs

Prof. 윤병우 (서울의대) & Prof. 이병철 (한림의대)

### Program Overview

Several antiplatelet agents with different mechanisms of action are currently available for the secondary prevention of ischemic stroke. This program will address the rationale and clinical evidence of combination of various antiplatelet drugs with different mechanisms. The suitability and feasibility of recent insurance announcements about antiplatelet-drug combinations will also be discussed.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge:

1. Various mechanisms of antiplatelet drugs.
2. Evidence-based efficacy and safety of various antiplatelet drugs.
3. How to interpret data obtained from clinical trials on antiplatelet-drug combinations.
4. Application of antiplatelet-drug combinations to stroke therapy.

### Speakers

15:00-15:20	Mechanisms of antiplatelet drugs	Prof. 이경복 (순천향의대)
15:20-15:40	Evidence of efficacy of various antiplatelet drugs	Prof. 유경호 (한림의대)
15:40-16:10	Evidence of efficacy and safety of combination antiplatelet-drug therapy	Prof. 구자성 (가톨릭의대)
16:10-16:30	Future antiplatelet drugs in ischemic stroke therapy	Prof. 권순억 (울산의대)



## Symposium Recent Advances in Alzheimer's Therapy

November 5, 2010  
15:00-16:30  
1st Floor Room, 103 & 104

### Chairs:

Prof. 한설희 (건국의대) & Prof. 김범생 (가톨릭의대)

### Program overview

There have been many developments in treatment of Alzheimer's disease. Several phase III trials for Alzheimer's disease are currently running or have finished recently. This session will provide an overview of therapeutic developments in Alzheimer's disease and the results of recent clinical trials.

### Learning Objectives

Attending this parallel symposium will provide participants with the following knowledge:

1. Recent developments in the treatment of Alzheimer's disease.
2. Mechanisms, current status and prospects of anti-amyloid therapy, immunotherapy, anti-tau therapy and Donepezil.

### Speakers

15:00-15:20	Anti-amyloid therapy	Prof. 김상윤 (서울의대)
15:20-15:40	Immunotherapy	Prof. 이재홍 (울산의대)
15:40-16:00	Anti-tau therapy	Prof. 정지향 (이화대의대)
16:00-16:20	Donepezil	Prof. 박경원 (동아대의대)

## Symposium Recent Issues in Movement Disorders

November 5, 2010  
15:00-16:30  
1st Floor Room, 105 & 106

### Chairs

Prof. 서만욱 (전북의대)

### Program Overview

This symposium will discuss the following issues: (1) the discovery of  $\alpha$ -synuclein in Parkinson's disease, which has prompted many studies into its molecular, genetic, pathological, and clinical implications in neurodegenerative diseases; (2) vascular factors in Parkinson's disease that have prompted researchers to widely employ brain imaging; and (3) the strengths and weaknesses of studies that have considered alternative treatments for movement disorders.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge:

1. Clinical implications of  $\alpha$ -synuclein.
2. Vascular factors possibly involved in Parkinson's disease.
3. Strengths and weaknesses of basic and clinical studies that have applied alternative treatments.

### Speakers

15:00-15:25	Clinical implications of $\alpha$ -synuclein	Prof. 안태범 (경희대의대)
15:30-15:55	Vascular factors in Parkinson's disease	Prof. 이필휴 (연세의대)
16:00-16:25	Clinical appraisal of alternative treatments in movement disorders	Prof. 최성민 (전남대의대)



## Symposium Neurocritical Care

November 5, 2010  
15:00-16:30  
1st Floor Room, 107 & 108

### Chairs

Prof. 이광수 (가톨릭의대) & Prof. 박기덕 (이화대의대)

### Program Overview

Neurocritical care as a subspecialty in the field of neuroscience has grown rapidly over the last 2 decades with advances in monitoring, diagnostic, and therapeutic modalities for various problems and diseases involving the brain and spinal cord. The spectrum of problems and diseases encompasses major cerebral infarction, status epilepticus, CNS infection, demyelination, neuromuscular junction disorder, traumatic brain injury, and intracranial hemorrhage. Critical care can greatly improve outcomes. The neurointensivist requires all of the skills expected of a general intensivist with the addition of those acquired by training as a neurologist. This symposium aims to help neurologists in training and also those who are already in clinical practice to broaden their view of the medical care provided to patients with SAH, to understand essential monitoring skills needed for the care of critically ill patients, and to understand how to clinically approach patients with syncope.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge and skills:

1. The ability to manage patients with SAH during the critical period.
2. An understanding of the essential monitoring skills required to care for critically ill patients.
3. The ability to approach patients presenting with syncope.

### Speakers

15:00-15:30	Medical management of SAH	Prof. 김규식 (국민건강보험공단 일산병원)
15:30-16:00	Monitoring neurocritical patients	Prof. 전상범 (울산의대)
16:00-16:30	How to approach syncope clinically	Prof. 권석범 (한림의대)

## Symposium Issues in Epilepsy Management

November 5, 2010  
16:45-17:45  
3rd Floor Room

### Chairs

Prof. 이상도 (계명대의대)

### Program Overview

During the clinical management of epilepsy patients we occasionally encounter various unresolved and unclear therapeutic issues. We have prepared several lectures that provide some clues and answers for those issues. During this session, undated AED pharmacotherapy will be described by Dr. Heo. Dr. Samuel Wiebe will provide some important messages on the comorbidity of epilepsy patients and its prevalence and management. Dr. Hong would describe how to select surgical candidates for epilepsy control. The present session will provide an overview of some epilepsy issues for both practicing neurologists and epilepsy specialists.

### Learning Objectives

Attending this morning lecture will provide the participants with the following knowledge:

1. Basic concepts of epilepsy patient management.
2. Recent issues related to antiepileptic drug (AED) pharmacotherapy.
3. Comorbidities of epilepsy and principles of their management.
4. Principles and examples of decision making for epilepsy surgery candidates.

### Speakers

16:45-17:05	AEDs therapy: when to start and stop	Prof. 허경 (연세의대)
17:05-17:25	Comorbidities of epilepsy: prevalence and management	Prof. Samuel Wiebe (University of Calgary, Canada)
17:25-17:45	Epilepsy surgery: how to select the patient	Prof. 홍승봉 (성균관의대)



## Evening Symposium Junior Faculty Development Program

November 5, 2010  
18:30-20:30  
1st Floor Room, 101-102

### Moderator

Prof. 박수철 (연세의대)

### Program overview

이 프로그램은 신경과학을 전공하는 젊은 연구자들에게 신경과학 분야 연구에 대한 정부의 지원 정책을 설명하고 좀 더 용이하게 연구비를 획득할 수 있는 전략적 방법을 제시하고자 기획되었다. 또한, 정부연구과제 수행의 실제적인 면들을 소개하여, 연구 의욕을 고취시키고 학문적 입지를 강화할 수 있는 계기가 될 수 있도록 준비하였다. 이를 위해 정부의 관련 기관에서 정책을 추진하고 연구 사업을 관리하는 분들과, 실제 연구계획서를 심의하고 관리하시는 분들을 모셨으며, 신경과에서 정부연구를 수행하고 있는 연구자를 통해 그 과정에 대한 경험을 듣는 기회를 제공하고자 한다.

### Speakers

18:30-19:00	보건복지가족부 보건의료기술 연구사업: 현황 및 전망	정통령 사무관 (보건복지가족부 보건산업기술과)
19:00-19:20	신진과학자 양성 사업	김정민 연구원 (보건산업진흥원)
19:30-20:00	정부과제 연구계획서: 작성 요령 및 심사	Prof. 김승현 (한양의대)
20:00-20:20	정부연구과제 수행 및 성과 관리	Prof. 김동익 (동국의대)

## Evening Symposium Debates in Neurology Practice: Thrombolysis

November 5, 2010  
18:30-20:30  
1st Floor Room, 103 & 104

### Moderators

Prof. 김경문 (성균관대의대) & Prof. 배희준 (서울의대)

### Program Overview

Early administration of intravenous recombinant tissue plasminogen activator (rt-PA) improves the outcome after ischemic stroke. Previous analyses of combined data from individual patients have suggested benefits beyond 3 h from stroke onset. We re-examined the eligibility criteria and the effects of treatment with intravenous rt-PA on the therapeutic benefit and clinical risk by analyzing recent trial data. Various experiences of intravenous and intra-arterial thrombolysis will be discussed.

### Learning Objectives

- Attending this workshop will provide the participants with the following knowledge:
1. The ability to interpret the contemporary data and evidence related to thrombolysis.
  2. A review of the inclusion and exclusion criteria of thrombolysis.
  3. Case-based learning about thrombolysis in uncommon ischemic stroke.
  4. Special approaches applied to intra-arterial thrombolysis.

### Speakers

18:30-19:00	Current status of thrombolysis	Prof. 김경문 (성균관의대)
19:00-19:30	Review of inclusion and exclusion criteria for thrombolysis	Prof. 박종무 (울지의대)
19:30-20:00	Thrombolysis in uncommon ischemic stroke	Prof. 남효석 (연세의대)
20:00-23:30	Special experience, case presentation	Prof. 권오기 (서울의대 신경외과)



## Workshop Needle EMG

November 5, 2010  
18:30-20:30  
1st Floor Room, 105 & 106

### Moderators

Prof. 임정근 (계명의대) & Prof. 이동국 (대구가톨릭의대)

### Program Overview

Needle electromyography (EMG) is an important tool for assessing the physiological status of motor units in neuromuscular disorders. Performing EMG requires a unique combination of skills and knowledge of peripheral neuromuscular system. Skills for the successful, high-quality, and reproducible EMG include adequate localization of the recording needle, visual and auditory pattern recognition and semiquantitation of waveforms. This workshop will address the techniques of needle EMG and waveform analysis.

### Learning Objectives

Attending this symposium will provide participants with the following skills:

1. The ability to select the appropriate muscles to examine.
2. The ability to determine whether a needle is correctly located in the target muscle.
3. The ability to discriminate various waveforms during needle EMG.
4. The ability to interpret the results of needle EMG.

### Speakers

18:30-19:20	Surface landmarks for needle localization	Pf. 배종석 (인제대학교)
19:30-20:30	Waveform analysis	Pf. 손은희 (충남대학교)

## Workshop Cognitive Scales for Clinicians

November 5, 2010  
18:30-20:30  
1st Floor Room, 107 & 108

### Moderators

한일우 원장 (용인효자병원) & Prof. 어경윤 (동국의대)

### Program Overview

Various clinical scales for evaluating cognitive dysfunctions have been developed. This session will provide an overview of the most commonly used clinical scales.

### Learning Objectives

Attending the workshop will provide participants with the following skills:

1. The ability to apply various clinical scales.
2. The ability to analyze the performances of various clinical scales.

### Speakers

18:30-19:00	NPI, IADL, and IQ code	Prof. 최성혜 (인하의대)
19:00-19:30	CDR and GDS	Prof. 김정은 (이화대의대)
19:30-20:00	K-MOCA	Prof. 강연욱 (한림의대)
20:00-20:30	Clock drawing test and 3MS	Prof. 이애영 (충남대의대)



## Integrated Educational Course Management of Common Neurological Disorders: Case-Based Learning

November 6, 2010  
08:00 - 09:30 am  
2nd Floor Room, 201

### Chairs

Prof. 정대수 (부산의대) & Prof. 하충건 (인하의대)

### Program Overview

This session aims to integrate various subspecialties of neurology. Speakers will address practical issues associated with common neurological disorders. The course will provide continuing medical education for neurologists in training, and also for specialists in order to optimize the care provided to patients with common neurological disorders.

### Learning Objectives

Attending this morning lecture will provide participants with the following knowledge and skills:

1. The ability to manage patients with common neurological disorders, including stroke, epilepsy, and movement disorders.
2. Novel insights into the pathophysiology of the common neurological disorders.
3. An understanding of the principles and pitfalls of the management of common neurological disorders.

### Speakers

08:00 - 08:30 am	Stroke	Prof. 한상원 (인제의대)
08:30 - 09:00 am	Epilepsy	Prof. 이서영 (강원의대)
09:00 - 09:30 am	Movement disorders	Prof. 김한준 (서울의대)

## Integrated Educational Course Recent Advances in Neuroimaging

November 6, 2010  
08:00-09:30 am  
Grand Ballroom

### Chairs

Prof. 신동진 (가천의대) & Prof. 권오상 (중앙의대)

### Program Overview

This course will focus on recent developments in neuroimaging. The first talk will begin with a review of perfusion CT/MRI before progressing to its clinical applications. The second speaker will address the basic principles and analysis of diffusion-tensor MRI. The last talk will introduce a broad array of recent developments in functional neuroimaging and their clinical implications in neurology. The target audience is senior neurology residents, fellows, and faculty staff with a strong interest in neuroimaging techniques and their clinical/research applications.

### Learning Objectives

Attending this symposium will provide the participants with the following knowledge:

1. General principles and clinical utilities of perfusion CT/MRI.
2. Basic principles of and analysis methods used in diffusion-tensor MRI.
3. Recent developments and challenges in functional neuroimaging.

### Speakers

08:00-08:30 am	Perfusion CT & MRI	Prof. 이덕희 (울산의대 영상의학과)
08:30-09:00 am	Diffusion-tensor MRI: principles and analysis	Prof. 오정수 (서울대학교, BK21 division of Human Life Science)
09:00-09:30 am	Functional neuroimaging: recent developments	Prof. 이재성 (서울의대 핵의학교실)



## Symposium MS & NMO

November 6, 2010  
9:45 am - 10:45 am  
1st Floor Room, 107-108

### Chairs

Prof. 김승민 (연세의대) & Prof. 김광국 (울산의대)

### Program overview

This program will cover two important issues and also introduce nationwide MS/NMO registry project. The first talk will discuss the treatment options for the patients who are not properly recovered from severe relapses, thus expected to have severe disability. Several proposed treatment paradigms for suboptimally controlled MS will be also discussed. The second talk will deal with one of the hottest issue, 'anti-aquaporin-4 antibody'. The current understanding on pathogenesis of neuromyelitis optica will be discussed. And the implication of anti-aquaporin-4 antibody will be described in that context. Then, invited neuroradiologist will propose the standard MRI protocol for MS and NMO, which is suitable for clinical practice as well as research. Finally, nationwide MS/NMO registry project will be introduced.

### Learning Objectives

After attending this symposium, the participants should:

1. Learn the current evidence in the treatment of severe relapses
2. Learn how to define suboptimal responders
3. Learn the management strategy of severe relapses and suboptimal responders
4. Understand the basic pathomechanism of NMO
5. Understand the implication of anti-aquaporin-4 antibody
6. Learn the standard MRI protocol for MS and NMO
7. Learn how to participate in the ongoing nationwide MS/NMO registry project

### Speakers

09:45 - 10:00 am	Management of severe relapses & suboptimal responders	Prof. 임영민 (울산의대)
10:00 - 10:15 am	Anti-aquaporin-4 antibody: Is it a real player in NMO?	Prof. 김우준 (국립암센터)
10:15 - 10:30 am	Proposal of standard MRI protocol for MS & NMO	Prof. 문원진 (건국의대)
10:30 - 10:40 am	Introduction of nationwide MS/NMO registry	Prof. 김병조 (고려의대)
10:40 - 10:45 am	Q & A	

## Symposium Migraines with aura and their subforms

November 6, 2010  
09:45-10:45 am  
3rd floor room

### Chairs

Prof. 박규현 (부산대병원) & Prof. 김용재 (이화의대)

### Program overview

The transient neurologic symptoms of migraine are both fascinating and disturbing, and are often the symptoms that motivate patients to consult a physician. For years there has been ongoing debate as to whether migraines with and without aura represent two distinct pathophysiologic processes. This symposium is designed to provide updated insights into the pathophysiology and clinical manifestations of migraines with aura and its subforms. Emphasis will be placed on differentiating between migraine with aura and other causes of transient focal neurological deficit mimicking aura.

### Learning Objectives

Attending this morning lecture will provide the participants with the following knowledge and skills:

1. Basic pathophysiology of aura.
2. Epidemiology of migraine with aura.
3. Symptomatology of typical aura.
4. Clinical features of basilar-type migraine.
5. Relationship between hemiplegic migraine and basilar-type migraine.
6. Differentiation between retinal migraine and other causes of monocular visual loss.

### Speakers

09:45-10:05 am	Typical aura: pathogenesis and epidemiology	Prof. 문희수 (성균관대의대)
10:05-10:25 am	Typical aura: symptomatology-....	Prof. 주민경 (한림의대)
10:25-10:45 am	Basilar-type migraine, hemiplegic migraine, and retinal migraine	Prof. 김병건 (울지의대)



# 대한신경과학회 제29차 학술대회

## Symposium Evaluation of Vestibular Disorders

November 6, 2010  
13:30-14:30  
3rd Floor Room

### Chairs

Prof. 정경천 (경희의대)

### Program Overview

Traditional vestibular function tests, including the caloric and rotatory chair tests, usually investigate the function of the horizontal semicircular canal. Recently there has been considerable progress in evaluating otolithic function, which is also important for stabilizing the eyes and body during head motion. Along with the development of neuroimaging, various modalities have been applied to evaluate the physiological or pathological function of the vestibular system. This symposium is designed to provide updated insights into evaluations of the vestibular system, with an emphasis on methods used to assess otolithic function and neuroimaging of the vestibular system and its disorders.

### Learning Objectives

Attending this symposium will provide participants with the following knowledge and skills:

1. Contemporary techniques used to determine the function of the otolithic organs.
2. The ability to interpret data obtained from the tests used to evaluate otolithic function.
3. Current neuroimaging methods applied to the vestibular system.
4. How to apply current neuroimaging techniques to vestibular disorders.

### Speakers

14:00-14:30	Evaluation of the otolithic system	Prof. 김선훈 (부산의대)
14:30-15:00	Imaging the vestibular system and its disorders	Prof. Thomas Brandt (University of Munich, Germany)



## 등록비 및 연회비

### ● 등록비

	회원				비회원		
	명예회원	준회원		준회원	일반회원	일반	피교육자
	만65세이상	전문의	전임의, 군복무	전공의	-	-	증명서류 지참 (해당 기관장 또는 지도교수 서명)
사전등록비	면제	100,000	60,000	60,000	100,000	160,000	80,000
당일등록비	면제	110,000	70,000	70,000	110,000	160,000	80,000
One Day	면제	60,000	해당없음	해당없음	60,000	60,000	60,000

- \* 11/7(일) One day는 보수교육으로 등록비는 받지 않습니다만 수강유무를 표시해 주십시오.
- \* One day는 사전 및 당일등록비가 동일합니다.
- \* 피교육자 증명서류 양식은 따로 없습니다.

### ● 연회비

	명예회원(만65세이상)	정회원(전문의)	준회원(전공의)	일반회원
연회비	면제	80,000	50,000	80,000

### ● 초록발표

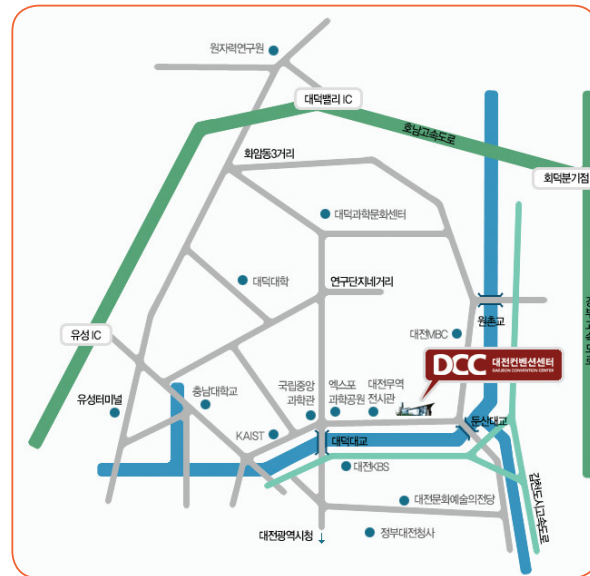
- **구 연** : 발표 7분과 질의응답 5분이고, beam projector를 사용할 예정이므로 ppt file로 준비하여 주십시오. Integrated Scientific Session은 발표 10분, 질의응답 5분이며, 반드시 영어로 발표해야 합니다. 시간을 엄수해 주시기 바라오며, 발표시간 최소 2시간 전에 preview room으로 제출해 주시기 바랍니다.
- **포스터** : 1) 발표 3분과 질의응답 2분이고, 포스터 발표자는 반드시 해당하는 poster presentation 시간에 본인의 포스터 앞에 서서 대기하시고 진행자가 오면 발표하십시오.  
 2) 포스터 크기 : 가로 0.9m X 세로 1.2m  
 3) 부착시간 : 발표 당일 오전 8시 30분 ~ 오전 9시까지  
 탈착시간 : 발표 당일 오후 6시 30분 ~ 오후 9시까지  
 (탈착 시간이 지난 후에는 포스터를 보관하지 않습니다.)
- \* 학술위원회와 수련위원회의 합의 하에 미부착 혹은 미발표 포스터에 대해서는 수련평가 실적으로 반영하지 않습니다.

## 식사

- **조식**  
 첫번째 강의를 참가하시는 회원을 위해 간단한 다과를 준비하였습니다.
- **중식**  
 Luncheon Symposium I, II, III과 보수교육에 참석하시는 회원께 점심을 제공합니다.
- **석식**  
 Evening Symposium I, II에 참석하시는 회원을 위해 간단한 샌드위치를 준비하였습니다.

## 교통안내

### ● 약도



**DCC** 대전컨벤션센터 | 305-340 대전광역시 유성구 도룡동 4-19  
 전화 (042) 821-0114  
 팩스 (042) 821-0119

### ● 소요시간

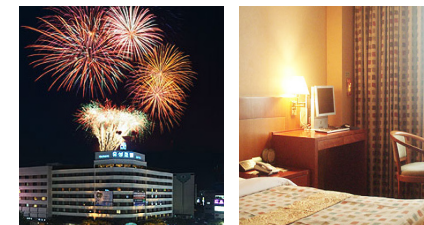
- 고속도로 : 경부, 호남, 대전 - 통영간, 대전 - 당진간 고속도로
- 철도 : 경부선, 호남선 KTX 등
- 주요도시 소요시간(KTX 기준) : 서울 50분, 대구 50분, 부산 1시간 50분, 광주 1시간 50분, 제주 50분(제주공항 청주공항, 공항버스)
- 대전역(경부선) - 20분
- 서대전역(호남선) - 20분
- 인터체인지(대전, 북대전, 유성) - 15분
- 고속버스터미널, 정류장(동부, 유성, 정부대전청사) - 15분
- 유성관광특구 - 10분
- 정부대전청사, 시청 - 10분
- 대덕연구개발특구 - 10분

### ● 주차안내

- 11월 4일(목), 11월 5일(금) 종일권(5,000원)을 구매하여야 하며, 주차권은 안내데스크에서 판매합니다.
- 11월 6일(토), 11월 7일(일)은 무료주차 할 수 있습니다.

## 숙박안내

### ● 유성호텔

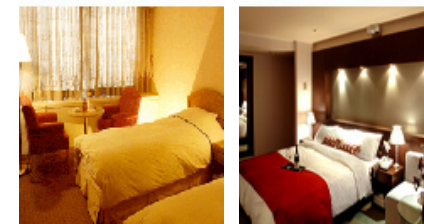


- Address : 대전광역시 유성구 봉명동 480번지
- 예약담당자 : 박우철 지배인
- Tel : 042-820-0616
- CP : 010-5038-5521
- Fax : 042-822-0041
- E-mail : chadps@hanmail.net
- Homepage : www.youseunghotel.com

객실(ROOM)	금액(50%할인가)	조식(B/F)	참고(Remarks)
침대(2인실)	₩ 100,000	₩ 13,000 (1인)	조식(07:00~):1층 가드니아
침대(1인실)	₩ 100,000	₩ 13,000 (1인)	조식(07:00~):1층 가드니아
온돌(4인실)	₩ 100,000	₩ 13,000 (1인)	조식(07:00~):1층 가드니아

- 투숙객 1층 대온천탕(유성온천원탕) 무료진행(정상가 5,000원)  
2층 고급사우나 40%할인가 적용(할인가 7,200원)
- 상기요금은 부가세 포함금액입니다.
- 객실예약은 예약담당자 통하여 진행하셔야 제공할인요율을 적용 받을수 있습니다.  
개인연락처와 유성호텔 홈페이지내 예약폴더, 또는 FAX로 예약신청하여 주시면 처리해드리겠습니다.  
객실예약진행시 결제카드번호를 말씀해주시면 감사하겠습니다.

### ● 호텔 스파피아



- Address : 대전광역시 유성구 봉명동 545-5
- 예약담당자 : 배봉희 지배인
- Tel : 042-600-6000
- CP : 011-458-1321
- Fax : 042-600-6032
- E-mail : bh9291@hanmail.net
- Homepage : www.hotelspapia.com

구분(2인실)	인원 및 평수	금액	참고(Remarks)
슈퍼리어 트윈	2인(8평)	₩ 90,000	일반객실이며, 리모델링 되지않은 객실임
코너디럭스	2인(10평)	₩ 120,000	2009년 리모델링 완료, 더블침대 1ea, VIP객실로 적합
스위트트윈	2인(24평)	₩ 150,000	응접실 + 침대 2ea, 갑천변 조망권확보

- 온천사우나, 휘트니스센터 이용 금액 50% 할인.
- 객실내 인터넷 사용 무료. (노트북 지참).
- 상기요금은 부가세 포함금액입니다.



## 숙박안내

### ● 호텔 아드리아



· Address : 대전광역시 유성구 봉명동 442~5  
 · Tel : 042-828-3737~8  
 · Homepage : www.hoteladria.co.kr

구분(2인실)	금액	참고(Remarks)
온돌, 침대	₩ 88,000	사우나 이용시 정상가 ₩ 5,000 → ₩ 2,500

- 유성호텔과 거리:도보로 3분정도 소요.(약 100m)
- 대전컨벤션센터→호텔간 거리(차량 10~15분 소요)

### ● 토요코인



· Address : 대전시 서구 둔산동 922  
 · Tel : 042-545-1045  
 · Fax : 042-545-1046  
 · Homepage : www.toyoko-inn.kr/index.html

구분(2인실)	금액	참고(Remarks)
싱글	₩ 60,500	
더블	₩ 82,500	
트윈	₩ 82,500	
디럭스트윈	₩ 108,900	
스위트트윈	₩ 132,000	
하트풀트윈	₩ 82,500	

- 지하철 정부청사역 도보10분
- 숙박 당일까지 연락이 없을 경우 자동 취소되고, 당일 취소는 취소수수료가 청구됩니다.
- 더블·트윈룸은 2인1실 요금(2명)입니다.
- 초등학생이하의 경우 숙박 요금은 무료이나 세면도구, 베개 등은 준비되지 않으며 추가 시 별도요금 10,000원이 청구됩니다
- 상가요금은 부가세 포함금액입니다.

## 셔틀버스 안내

### ● 유성호텔-스파피아호텔-DCC

승차위치 : 유성호텔 정문/스파피아호텔 입구/ DCC 정문 전면

#### ▶11월 04일(목)

회차	유성	스파피아	DCC	DCC	유성	스파피아
1	8:00	8:05	8:25			
2	8:15	8:20	8:40			
3	8:30	8:30	8:50			
4	9:00	9:05	9:25			
5	10:00	10:05	10:25			
6	11:00	11:05	11:25			
7	12:00	12:05	12:25			
8	14:00	14:05	14:25	14:30	14:50	14:55
9	15:00	15:05	15:25	15:30	15:50	15:55
10	16:00	16:05	16:25	16:30	16:50	16:55
11	17:00	17:05	17:25	17:30	17:50	17:55
12	18:00	18:05	18:25	18:00	18:20	18:25

\*DCC에서 18:15 둔산볼링장 출발

#### ▶11월 05일(금)

회차	유성	스파피아	DCC	DCC	유성	스파피아
1	7:20	7:25	7:45			
2	7:35	7:35	7:55			
3	9:00	9:00	9:20			
4	10:00	10:05	10:25			
5	11:00	11:05	11:25			
6	12:00	12:05	12:25			
7	14:00	14:05	14:25	14:30	14:50	14:55
8	15:00	15:05	15:25	15:30	15:50	15:55
9	16:00	16:05	16:25	16:30	16:50	16:55
10	17:00	17:05	17:25	17:30	17:50	17:55
11	18:00	18:05	18:25	18:00	18:20	18:25
DCC에서 2대 출발				18:15	18:35	18:40

## 셔틀버스 안내

### ▶11월 6일 (토)

회차	유성	스파피아	DCC	DCC	유성	스파피아
1	7:20	7:25	7:45			
2	7:35	7:35	7:55			
3	9:00	9:00	9:20			
4	10:00	10:05	10:25			
5	11:00	11:05	11:25			
6	12:00	12:05	12:25			
7	14:00	14:05	14:25	14:30	14:50	14:55
8	15:00	15:05	15:25	15:30	15:50	15:55
9	16:00	16:05	16:25	16:30	16:50	16:55
10	17:00	17:05	17:25	17:30	17:50	17:55
11				19:15	19:35	19:40

### ▶11월 07일 (일)

회차	유성	스파피아	DCC
1	8:00	8:05	8:25
2	8:15	8:20	8:40
3	8:30	8:30	8:50
4	9:00	9:05	9:25
5	10:00	10:05	10:25
6	11:00	11:05	11:25
7	12:00	12:05	12:25

### ● 대전역-DCC(대전컨벤션센터)

승차위치 : 대전역 KTX 하차 - 서편 광장 출구 - 지하철 대전역 3번 출구 앞 / DCC 경문 전면

#### ▶11월 4일 (목)

회차	대전역 출발	DCC 도착
1	8:10	8:30
2	8:30	8:50

#### ▶11월 6일 (토)

회차	DCC 출발	대전역 도착
1	19:15	19:35
2	19:20	19:40

#### ▶11월 7일 (일)

회차	DCC 출발	대전역 도착
1	15:30	15:50
2	15:40	16:00