



KORANET

Korean scientific cooperation network with the European Research Area
An initiative to intensify and strengthen the regional
S&T cooperation between Korea and the ERA

Partnering Event report

KORANET Pilot Joint Call Partnering Event

1/2 February 2010
Seoul/Korea KORANET

(Deliverable 4.2.1)

Abstract

This report aims at summarizing the outcomes and results of the KORANET Pilot Joint Call Partnering Event that was held in Seoul, Korea on 1-2 February 2010.



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EXECUTIVE SUMMARY

The KORANET Pilot Joint Call Partnering and Brokerage Event was held on 1-2 February 2010 in Seoul, Korea. The Partnering Event was intended to officially launch the KORANET Pilot Joint Call in the field of ‘Research for Lifelong Health¹’. It approached the topic of life-long health from a multi- and interdisciplinary point of view to ensure optimum synergies and networking options.

The objectives of the Partnering and Brokerage Event can be summarized as:

- To officially launch the KORANET Pilot Joint Call in the area of ‘Research for Life-long Health’ (proposal submission until April 2nd, 2010)²
- To present all information, the requirements and steps to participate in the KORANET Pilot Joint Call
- To give researchers from Europe and Korea a chance to present their recent work in the area of ‘Research for Life-long Health’ to an international audience
- To initiate cooperation in the area of ‘Research for Life-long Health’ between European and Korean researchers that have already voiced their interest in participating in the KORANET Pilot Joint Call and thus to facilitate the set-up of project consortia (through pre-arranged networking sessions).

15 European researchers (French, German, Turkish and Austrian) and 15 Korean researchers presented their expertise and areas of interest in the fields of Health, Technology and Social Science. The speakers were selected among the 150 researchers that expressed interest in participating at the Partnering Event in Seoul and in the Pilot Joint Call by sending their scientific profile (see also the Experts’ Profiles Brochure at: <http://www.koranet.eu/en/188.php>).

Speakers’ presentations were structured in several parts illustrating for each of the speakers their research institution, their expertise and research projects, and the type of partnership/expertise sought.

The presentations in the three thematic areas (Health, Technology and Social Sciences) did not follow a strict order but were delivered as a mix so as to ensure dynamic sessions and encourage interactions between the speakers and the participants.

The speakers were specialists in various scientific areas and they illustrated a wide range of expertise and the way in which it could be used in order to deal with illness and disability among the elderly, to prevent degenerative diseases, to deal with specific needs, and to bring technological solutions for better quality of life and independence.

About one hundred researchers and experts took part at the event. Both European and Korean researchers appreciated the presentations that gave them the opportunity to discover the research projects of their fellows and set the basis for more detailed discussions during the face-to-face sessions that took place on the second day of the event. This was also the starting point of several

¹ The rationale behind the selection of this topic is that in the past decades Europe and Korea have both faced drastic changes in their demographic profile due to an ever-increasing ageing population. The ageing of the human population represents one of the most significant political, social and scientific challenges of our societies. The study of this phenomenon is vital not only because it relates to the quality of life of older people but also because of its implications for the society and its services.

² For more information on the KORANET Pilot Joint Call on Research for Life-long Health see: <http://www.koranet.eu/en/211.php>.

project ideas involving the European and the Korean researchers with a special focus on ageing populations.

All presentations can be viewed at <http://www.koranet.eu/en/188.php>.

I. THE KORANET PROJECT

KORANET - **KOReAn** scientific cooperation **NET**work with the European Research Area - is a network of European ministries, funding organisations, S&T policy promoting centres and Korea, represented by the Korean partner organisation, the National Research Foundation of Korea (NRF). It is supported by the European Commission under its 7th framework programme.

KORANET was initiated to promote science and technology cooperation between EU and Korea, since Korea is recognized as one of the leading innovator of new human-centric technology in Asia with ever growing market and standard of living. Korea and the EU share a common interest in specific areas of science, e.g. fusion energy, life sciences (biotechnology and health research), information technologies and telecommunications, industrial and materials technologies, sustainable development and humanities and social sciences. Thus, there is sufficient common ground to initiate multilateral cooperation between Europe and Korea.

The **KORANET project goal** is to enhance the existing research partnership between European countries and Korea by building a sustainable and coordinated ERA. The objectives are:

- Improving information exchange and cooperation between Korean and European research communities
- Exchanging best practices as regards the planning and implementation of S&T policies and international S&T cooperation
- Coordinating bilateral approaches of EU Member States/Associated Countries and Korea
- Specifying priority thematic areas for cooperation
- Establishing an appropriate framework for strategic cooperation
- Developing a one-stop agency for Korean S&T interests
- Learning from completed and ongoing ERA-NETs (good practice)
- Developing and implementing a full concept for a joint funding programme in a thematic area (based on a pilot joint funding scheme).

The **work packages** in the KORANET project are following:

- **WP 1: Analysis, monitoring, review**
Mapping of regional approaches including the preparation of reports and studies on S&T co-operation as well as an analysis of cooperation instruments and approaches
- **WP 2: Strategy and foresight**
Leading strategic discussions, identifying cooperation areas of common interest, setting framework objectives for future cooperation
- **WP 3: Joint funding**
Development and implementation of a pilot joint funding scheme (pilot joint call) and based on its evaluation a joint funding programme of programme owners
- **WP 4: Joint activities**

Implementing a continuous scientific and policy dialogue (annual conferences dedicated to different topics, workshops, brokerage and information events, networking activities for researchers)

➤ **WP 5: Organisation and management**

General coordination of the project including information dissemination

KORANET consists of three bodies: A consortium committee that constitutes the highest decision-making body and supervises the project implementation, a steering committee of ministries that critically accompanies the project to ensure the coherence with national policy goals and reviews the network's achievements with regard to the working plan and several observers that with their experience contribute to and comment on the progress of the KORANET project and participate in relevant meetings and activities.

The KORANET project has **consortium committee** consists of:

- International Bureau of the Federal Ministry of Education and Research at the Project Management Agency of the German Aerospace Centre (DLR), Germany
- Centre for Social Innovation (ZSI), Austria
- VDI/VDE Innovation + Technik GmbH (VDI/VDE-IT), Germany
- National Research Foundation of Korea (NRF), Korea
- British Council (BC), United Kingdom
- Technical Research Centre of Finland (VTT), Finland
- Veneto Innovazione S.p.A. (VenInn), Italy
- National Centre for Scientific Research (CNRS), France
- Polish Academy of Science (PAN), Poland
- Hungarian Korean Technical Cooperation Centre (HKTCC), Hungary
- Scientific and Technological Research Council of Turkey (TÜBİTAK), Turkey

The KORANET **steering committee** consists of representatives of the following five ministries:

- Germany: Federal Ministry of Education and Research (BMBF)
- Korea: Ministry of Education, Science and Technology (MEST)
- Austria: Federal Ministry of Science and Research (BMWF)
- Hungary: National Office for Research and Technology (NKTH)
- France: Ministry for Foreign and European Affairs (MAEE)

Following organisations are **observers** of the KORANET project.

- Royal Society Science Policy Centre (RSSPC), United Kingdom
- British Academy (BA), United Kingdom
- Research Council of Norway (RCN), Norway
- OSEO, Direction des Partenariats Européens et Internationaux, France
- Swedish Governmental Agency for Innovation Systems (VINNOVA), Sweden
- Korea Institute for the Advancement of Technology (KIAT), Korea

More information on KORANET, the project's deliverables and news on EU-Korean S&T cooperation can be found on the official KORANET project website: www.koranet.eu.

II. THE KORANET PARTNERING EVENT, 1-2 FEBRUARY 2010, SEOUL/KOREA

The Partnering Event is part of a series of events organised within the KORANET project dedicated to scientists from EU and Korea in order to overcome the respective lack of knowledge of each other in the domain of scientific research. Its main objective was the official launch of the KORANET Pilot Joint Call, enabling partnership between European and Korean researchers.

The aim of the KORANET Pilot Joint Call is to fund thematic areas of mutual interest in the frame of Research for Life-long Health and thus to encourage and strengthen cooperation among European and Korean scientists. The KORANET Pilot Joint Call focuses on a broad theme so as to ensure a wide range of applicants of different disciplines. Therefore, the following three thematic sub-topics were selected:

- Health (gerontology, medicine, genetics, biology)
- Social sciences (sociology, political science, demography, statistics, psychology, economics)
- Technology (biotechnology, ICT engineering, material science, robotics, nanotechnology)

The Partnering Event targeted researchers from universities and research institutions from Europe and Korea interested in sharing new project ideas and finding collaboration partners. The main European target countries are those that participate in the KORANET Pilot Joint Call, namely Austria, France, Germany, Korea and Turkey.

The objectives of the Partnering Event were determined as fourfold:



Picture 1: Dr. Lee's (NRF) welcoming speech

- To officially launch the KORANET Pilot Joint Call in the area of Research for Life-long Health (Proposal submission from 8 February to 2 April, 2010).
- To present all information, the requirements and steps to participate in the KORANET Pilot Joint Call.
- To give researchers from Europe and Korea a chance to present their recent work in the area of 'Research for Life-long Health' to an international audience.

- To initiate cooperation in the area of Research for Life-long Health between European and Korean researchers that have already voiced their interest in participating in the KORANET Pilot Joint Call and thus to facilitate the set-up of project consortia (through pre-arranged networking sessions).

1.1 Format

During the 1st and 2nd of February 2010 the KORANET Partnering Event took place in Seoul. The two-day event was attended by approximately 100 researchers, policy makers and the interested public.

The introduction and welcome of the NRF officials and the KORANET project coordinator, Dr. Gerold Heinrichs, were followed by a detailed presentation of the KORANET Pilot Joint Call and 15 minute presentations given by a range of European and Korean scientists.

While the first day and half of the second day were dedicated entirely to these presentations, face-to-face sessions took place in the afternoon of the second day. These sessions aimed at facilitating detailed discussions among European and Korean researchers in view of future



Picture 2: KORANET Partnering Event participants



Picture 3: Dr. Park (NRF)

cooperation. The important number of interactions that took place proved that, both on the European and the Korean side, there is a real need for mutual knowledge of current research projects and that numerous synergies can be created in the scientific fields open within the KORANET Pilot Joint Call.

1.2 Experts' Profiles Brochure

The Experts' Profiles Brochure is uploaded at <http://www.koranet.eu/en/188.php> and contains about 150 scientific profiles of both European and Korean researchers that are working in one of the Pilot Joint Call domains (Health, Technology and Social Sciences) and who have expressed their interest in setting up or consolidating cooperation in the field of Research for Life-Long Health.

This collection can also serve as base for partner searching for the teams involved in the Pilot Joint Call or for the scientists looking for Korean and/or European partners with a view to future collaboration.

1.3 Key outcomes

The key outcomes of the KORANET Pilot Joint Call Partnering Event were:

- The official launch of the KORANET Pilot Joint Call in the area of 'Research for Life-long Health' and to obtain detailed information about the call;
- Invited speakers were able to present their research projects to an international audience;
- For both European and Korean scientists present at the event, it was an opportunity to get better knowledge of the existing expertise in Europe and Korea in the fields of Health, Technology and Social Sciences, but also to discuss and exchange ideas on potential areas of mutual interest;
- Setting the basis of future cooperation within multidisciplinary projects in the area of 'Research for Life-long Health' among European and Korean researchers;

- The Pilot Joint Call will support the developing future cooperation or strengthening collaboration between European and Korean researchers.

1.4 Follow-up activities



Picture 4: Speakers of the Partnering Event

One of the key objectives of the KORANET project is to develop and implement a joint funding programme among the EU Member States/Associated Countries and South Korea. The Pilot Joint Call is the first step taken towards the accomplishment of this objective. Then, based on the assessment and the lessons learnt during the Pilot Joint Call, the KORANET Main Call for proposals will be designed and implemented in 2011 or 2012.

Before implementing the KORANET Main Call, feedback from participants will be obtained. Therefore, the annual KORANET

conference that is to take place in September 2010 in Budapest, Hungary, will focus on the topic of Life-long Health and will officially mark the start of the projects funded in the frame of the KORANET Pilot Joint Call.

III. ABSTRACTS OF CONFERENCE PRESENTATIONS

- ***Diabetes as a Model of Oxidative Aging: Potential Remedies Using Natural and Synthetic Antioxidants:*** Dr. Cimen Karasu (Gazi University, Faculty of Medicine, Turkey) explained that the project comprises a multidisciplinary approach to the investigation of molecular factors in the generation and the etiology of chronic diabetic complications. She is looking for partners qualified in cellular mechanisms of age-related metabolic diseases such as diabetes and knowledge on drug target related with glycoxidative stress, and drug design and phytotherapeutics.
- ***Medical Simulation with Visual and Haptic Fidelity to Train or Plan Medical Procedures:*** Dr. Doo Yong Lee (Korea Advanced Institute of Science and Technology) explained that his project is dedicated to the development of high-fidelity simulation with both visual and haptic sensations to train or plan medical procedures. Having an expertise in haptic interface design and control, robotics and physics-based modelling of human organs and tissues, he is looking for partners specialised in computer graphics rendering, computer graphics display, virtual reality simulation and haptic interface.
- ***Employee Related Instruments of Corporate Social Responsibility (Including Safety, Heat Protection and Precaution) in Germany and Confucian Asia:*** Dr. Silke Bustamante (Berlin School of Law and Economics, Germany) illustrated her project dedicated to the comparative analysis of employee related measures of corporate social responsibility focusing on safety, health protection and health precaution. She is looking for partners with knowledge of CSR in Korea and Asia, knowledge about available datasets, contacts to NGOs', universities and companies.

- **Local Poverty Alleviation Programs Multilateral Cooperation Strategies:** Dr. Pan Suk Kim /Young Je Kim (Yonsei University, Korea) described his project dedicated to the poverty eradication and international development based on a multi-disciplinary approach including social policies, public health, scientific technologies, regional studies, etc. He is looking for expertise in the field of knowledge-sharing of European ideas of socio-economic development in developing countries.
- **Prospects and Challenges of an Ageing Society: Comparing Germany and Korea:** Dr. Peter Enste (Institute for Work and Technology, Germany) illustrated his project “Prospects and challenges of an ageing society” dealing with the concept of housing for independent living for the high-risk groups of the elderly, but also with the comparison of models of citizens’ involvement for an ageing society, the development of business models in health and wellness, E-health and Telemedicine, as well as evaluation of health-related projects. Dr. Enste is looking for international partners from science and practice on similar research interests.
- **Functional Analysis of Dopamine D2 Receptor Signaling Involved in Dopaminergic Neuro Psychiatric Disorders:** Dr. Ja-Hyun Baik (Korea University) is studying the physiological role and signal transduction of dopamine receptors and feeding behaviour regulation by melanocortin. Dr. Ja-Hyun Baik is looking for partners with knowledge in electrophysical recording of dopaminergic neurons, non-invasive neurotransmitter release analysis in animal, brain imaging and electron microscopic analysis of neurons, medicinal chemistry and preclinical collaboration.
- **Dynamic Interactive Multivalent Nanopatform:** Dr. Mihail-Dumitru Barboiu (European Institute for Membranes, France) detailed his project which aims to investigate the sugar-protein biointeractions by quartz crystal microbalance using nanopatforms as both QCM mass amplifiers and as biomimetic saccharide platforms. Dr. Barboiu is looking for partners with knowledge in biomolecules dynamically partitioned in nanopatforms, in protein surfaces prepared by dynamic immobilisation and nanopatforms solutions tested in QCM.



Picture 5: Dr. Heinrichs (DLR)

- **Calcium Control in Secretory Cells and Related Diseases:** Dr. Seung Hyun Yoo (Inha University) illustrated his expertise in Ca^{2+} control mechanisms by secretory granules, IP3-dependent Ca^{2+} control in the cytoplasm and nucleus of secretory cells, biochemistry of chromogranins A and B, and secretogranin II, molecular neurobiology of neuroendocrine cell.
- **Radio frequency identification (RFID) Applications:** Dr. Jozsef Banlaki (Bay Zoltan Foundation for Applied Research, Hungary) detailed his experience in the field of Ambient Assisted Living and the expertise to develop RFID (Near Field Communication-NFC) applications: logistics, production, banking. He is looking for partners producers in NFC technology and research centres for a long term cooperation in order to develop new RFID components.

- ***Anticancer Action of W3-polyunsaturated Fatty Acids in Cancers: In Vitro and In Vivo:*** Dr. Kyu Lim (Chungnam National University School of Medicine, Korea) illustrated his expertise in in-vitro experiments – tube formation using HUVEC, immunocytochemistry and immunohistochemistry, FACS analysis, motility and invasion assay, zymography, (all techniques on cellular and molecular biology). The partners sought should have expertise in tumorigenicity using subcutaneous and orthopic injection in mouse, metastasis (spleen injection and tail vein injection).
- ***Preclinical Research and Clinical Examination of New Silver Nanoparticle Coated Catheters and Intraventricular Cerebral Catheter, Predictive and Prognostical Study Forbrain Injury Outcome:*** Dr. Bela Demeter (Borsod County and Teaching Hospital, Hungary) described his research project dealing with the use of antibacterial effect of the nano-silver particle in clinical practice in order to avoid spreading infection, to fight antibiotic resistant bacteria, to apply nanoparticles on invasive and semi-invasive medical devices). He searches partners for proof of concept, possible production facilities, angel ventures.
- ***Surface Characterization of Nanomaterials Based on Image Analysis:*** J. Jay Liu (Pukyong National University, Korea) detailed a project idea dealing with computer-aided diagnosis and treatment in medicine (numerical estimation of disease progression/ status; modelling patients' response to treatment, mode-based treatment of disease) by integrating and analyzing data from all sources. He searches partners with expertise in dynamics, identification and control of biochemical systems, optimal model-based design of experiments for model identification.
- ***Functional Neuroimaging of Brain by Optical Tomography in Health and Disease:*** Dr. Ata Akin (Boğaziçi University, Turkey) presented his project dedicated to functional optical imaging of the brain and his approach based on the use of functional neuro-optical imaging in early diagnosis and prognosis of neurodegenerative diseases.
- ***Research on Intelligent Rehabilitation Robots to Serve the Disabled:*** Dr. Uwe Lange (University of Bremen - Institute of Automation, Germany) presented his research project on intelligent rehabilitation robots to serve the disabled. He is interested in partners in the fields of rehabilitation robotics, robot control, computer vision, safety in robotics and human-machine interface.
- ***Development and Application of Microfabricated Electrochemical Biosensors to Life Long Health:*** Dr. Soo-Ik Chang (Chungbuk National University, Korea) illustrated the application of multiple microelectrode array chip to biological system, the diagnostics for health using electrochemical sensor, the high-throughput screening for new angiogenesis inhibitors using microfabricated electrochemical biosensors. The partners sought should have expertise in electrochemical measurement, droplet-based microfluidics, fabrication of electrochemical biosensors.
- ***Nanohydroxyapatite Based Composite Development for Bioapplications:*** Dr. Csaba Balazsi (Research Institute for Technical Physics and Materials Science, Hungary) described his project idea dealing with the use of based materials (eggshell or seashell) for implants and medical applications, for example bone regeneration.
- ***Scaffold Design, Elastic Polymers, and Growth Factor Delivery System for Connective Tissue Regeneration:*** Dr. Giyoong Tae / Dr. Young Ha Kim (Gwangju Institute of Science and Technology, Korea) presented a talk on tissue regeneration, the use of mechanical stimuli for connective tissues using a very elastic scaffold and proper delivery of GFs and cells using

heparin-functionalized hydrogel and nanoparticles.

- ***Treatment of Neurinflammation by Epigenome Modulation:*** Dr. Hermann Schluesener (Institute of Brain Research, University of Tuebingen, Germany) illustrated his efforts in finding new pathways, new drugs and new strategies based on the epigenetic processes in chronic and degenerative disease. Dr. Schluesener is looking for partners with expertise in bioinformatics, microarray data mining, expertise in epigenome modulation, notably histone-acetylation and lead drugs.
- ***Biomarkers for Aeging Related Neurodegeneration:*** Dr. Young Mok Park (Korea Basic Science Institute, Korea) concentrates his research on the identification of biomarkers for ageing related disordered nervous system to develop better prevention and treatment strategies. He searches for clinicians and neuropathologists who can provide well characterized and defined human samples, as well as protein candidate validation and characterization.
- ***F2C18 an Antitumoral Polypeptide for Colon and Liver Cancers:*** Dr. Bruno Clément (INSERM National Institute of Health and Medical Research, France) described his expertise in hepatology, cancer, cell and molecular biology, biobank, technologies (tumour targeting, imaging, cell chip). Dr. Clément searches for partners with experience in anti-cancer drug production and validation, pre-clinical study, and phase 1 clinical study.



Picture 6: Researchers at the face-to-face session

- ***Zinc Role in Atherosclerotic and Osteogenic Calcification:*** Dr. In-Sook Kwun (Andong National University, Korea) explained his research project dedicated to the study of zinc as a nutraceutical and medicinal biofactor for prevention of osteoporosis and atherosclerosis.

- ***Ageing of Human Bone-derived Mesenchymal Stem Cells: Molecular and Cellular Cues:*** Dr. Regina Brunauer (Austrian Academy of Sciences, Austria) described her experience in projects dealing with ageing research. AAS is the (first institute in Europe dealing with aging research, and is involved in several European projects: Proteom-Age, Mim-Age, Era-Age, Future-Age). In the future the project will focus on translational research: drug screening (molecular cell biology), vaccines for elderly (immunology), tissue engineering by implants (extracellular matrix research).

- ***Development of Novel Microfluidic Platform for Neuroscience:*** Noo Li Jeon (Seoul National University, Korea) described his research project dealing with cell migration in gradient generating microfluidic devices, and neutrophil chemotaxis in microfluidic gradient device. He looks for partners with experience in cancer stem cell biology, angiogenesis and optical microscopy.
- ***Using wearable and mobile Computing Solutions to Enable a Longer Healthy Living at Home:*** Dr. Michael Lawo (TZI Universitaet Bremen), Germany illustrated expertise available at TZI and the research activities dealing with mobile solutions, system quality and information security, adaptive communications, interaction and education. He would like to find partners doing research on wearable sensors, and research on social/context/stress level monitoring.



Picture 7: Researchers at the face-to-face session

- **Research on Wireless Communication Modem and BSP (Bio-signal Processor) SoC Design for eHealth Application:** Jaeseok Kim (Yonsei University, Korea) described his research activities dealing with commercial ICD (Implantable Cardioverter Defibrillator) System (Medtronic), the development of enhanced ICD systems. His potential partners should have expertise in dealing with implantable glucose sensor/ micro-pump (MEMS) and BSP algorithm for diabetic and pre-clinic test.

- **Therapeutic Uses in Regenerative Medicine of Bone Marrow and Adipose Derived Mesenchymal Stem Cells :** Dr. Louis Casteilla (CNRS-National Centre for Scientific Research, France) described his project idea dealing with adipose tissue as a source of regenerative cells. He searches for partners with expertise in developmental biology, nanotechnology (cell tracking), animal models.
- **Cartilage and Bone Tissue Engineering from Mesenchymal Stem Cell:** Dr. Gun-Il Im (Dongguk University Ilsan Hospital), Korea) illustrated his research project based on bone and cartilage regeneration and his current studies focussing on the development of cell therapy for bone defect and spine fusion using adipose stem cell and the promotion of cartilage regeneration using the viral or non viral transfection of sox trio gene.
- **Targeting of Antitumour/antimicrobial Drugs by Peptide/protein Bioconjugates:** Dr. Gabor Mezo (Research Group of Peptide Chemistry-Eötvös Lorand University, Hungary) is aiming at targeting antitumor/antimicrobial drugs using peptide/protein bioconjugates. His objective is to increase the cell specificity of antitumor/antimicrobial drugs. He is interested in partners with expertise in comparative analysis of genomics/proteomics of treated cells, and in vitro experiments.
- **Service Middleware and User Interface Technology Supporting Well-Being Life Style for Aged Person:** Dr. Kyeong-Deok Moon (Electronics and Telecommunications Research Institute, Korea) gave a presentation of his project dedicated to service middleware and user interface technology supporting well-being life-style for aged persons. His goal is to develop a sensing and communication system to assist decision-making and task-completion of the elder users.



Picture 8/9: Researchers at the face-to-face session (Left) – Participants of the Partnering event (Right)

IV. CONCLUSION

In conclusion, the KORANET Partnering Event that took place in Seoul on 1-2 February 2010 can be considered as a successful event since it attracted a relevant audience, namely European and Korean scientists specialised in the fields of the KORANET Pilot Joint Call: health, technology and social sciences.

The participants had the opportunity to obtain detailed information about the Pilot Joint Call. Moreover, the Korean and European researchers could get to know each others expertise in their specific scientific fields.

Thanks to the face-to-face sessions exchange and discussion among European and Korean scientists was facilitated thus setting the basis for future collaboration projects, some of which will be submitted within the KORANET Pilot Joint Call.

APPENDICES

APPENDIX 1: KORANET Partnering Event Agenda



KORANET Pilot Joint Call in the area of 'Research for Life-long Health' - Partnering event -

1st and 2nd of February, 2010
Seoul, Korea

AGENDA

VENUE

Somerset Palace Seoul
85 Susong-dong, Jongno-gu, Seoul
<http://www.somersetpalace.co.kr/en/index.asp>

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BACKGROUND INFORMATION

The primary aim of the KORANET Pilot Joint Call is to fund thematic areas of mutual interest in the frame of 'Research for Life-long Health'. A key objective of the KORANET partners is to focus the Pilot Joint Call on one broad theme, in order to ensure a wide range of applicants of different disciplines. Therefore, the following three thematic sub-topics were selected:

- **Health** (gerontology, medicine, genetics, biology)
- **Social sciences** (sociology, political science, demography, statistics, psychology, economics)
- **Technology** (biotechnology, ICT engineering, material science, robotics, nanotechnology)

Why the topic of Life-long Health? In the past decades Europe and Korea have both faced drastic changes in their demographic profile due to an ever-increasing ageing population.

The ageing of the human population represents one of the most significant political, social and scientific challenges of our societies. The study of this phenomenon is vital not only because it relates to the quality of life of older people but also because of its implications for the society and its services.

The KORANET pilot joint call aims at bringing together European and Korean researchers and scientists to do joint research on the topic of Life-long Health. It tries to approach the topic of life-long health from a multi- and interdisciplinary point of view to ensure optimum synergies and networking options. Thus, applications from a large variety of disciplines are welcome as long as they target to overcome the current constraints on the quality of life of older people in our society and to help them enjoying better quality lives as they age. Applications are encouraged to adopt a truly interdisciplinary research approach.

OBJECTIVES

The objective of the Partnering Event is fourfold:

- To officially launch the KORANET Pilot Joint Call in the area of 'Research for Life-long Health' (proposal submission in February/March 2010)
- To present all information, the requirements and steps to participate in the KORANET Pilot Joint Call
- To give researchers from Europe and Korea a chance to present their recent work in the area of 'Research for Life-long Health' to an international audience
- To initiate cooperation in the area of 'Research for Life-long Health' between European and Korean researchers that have already voiced their interest in participating in the KORANET Pilot Joint Call and thus to facilitate the set-up of project consortia (through pre-arranged networking sessions).

PARTICIPANT PROFILE

The Partnering Event targets researchers from **universities and research institutions from Europe and Korea** who are interested in sharing new project ideas and finding collaboration partners. The main European target countries are those that participate in the KORANET Pilot Joint Call: Austria, France, Germany, Hungary Korea and Turkey.

Participation in the partnering event is free of charge upon registration and offers a unique possibility to contribute to EU-Korea scientific cooperation in the field of 'Research for Life-long Health'.

AGENDA

Monday, 1st of February 2010

09.30 – 10.00 Arrival and registration

KORANET Project and the Pilot Joint Call:

| | |
|---------------|---|
| 10.00 – 10.15 | <p>Opening Address Yongmo Lee, Director, Center for International Affairs, National Research Foundation of Korea (NRF)</p> <p>Welcome speech Jin-Seon Park, Director, International Exchange and Cooperation Division, Ministry of Education, Science and Technology (MEST)</p> |
| 10.15 – 10.30 | <p>Welcome speech and introduction of the KORANET project Gerold Heinrichs, Head of Department for Asia, America and Oceania of the International Bureau of the German Federal Ministry of Education and Research and Coordinator of KORANET</p> |
| 10.30 – 10.45 | <p>The KORANET Pilot Joint Call – Information on the Call requirements and proposal submission Marinela Popa, European Project Manager, CNRS, International Relations Office</p> |
| 10.45 – 10.55 | <p>Questions on the KORANET Pilot Joint Call</p> |
| 10.55 – 11.00 | <p>Photo Session</p> |

Research for Life-Long Health – Presentation of project ideas

Chair: Prof. Ja-Hyun Baik (Korea University)

| | |
|---------------|--|
| 11.00 – 11.15 | <p>Cimen Karasu (Gazi University, Faculty of Medecine), Turkey <i>Diabetes as a model of oxidative aging: Potential remedies using natural and synthetic anti-oxidants</i></p> |
| 11.15 – 11.30 | <p>Doo Yong Lee (Korea Advanced Institute of Science and Technology) <i>Medical Simulation with Visual and Haptic Fidelity to Train or Plan Medical Procedures</i></p> |
| 11.30 – 11.45 | <p>Silke Bustamante (Berlin School of Law and Economics), Germany <i>Employee related instruments of corporate social responsibility (including safety, heat protection and precaution) in Germany and Confucian Asia</i></p> |
| 11.45 – 12.00 | <p>Pan Suk Kim / Young Je Kim (Yonsei University), Korea <i>Local Poverty Alleviation Programs Multilateral Cooperation Strategies</i></p> |
| 12.00 – 13.30 | <p>Lunch (buffet)</p> |

Chair: Prof. Doo Yong Lee (KAIST)

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| 13.30 – 13.45 | <p>Peter Enste (Institute for Work and Technology), Germany <i>Prospects and challenges of an ageing society: Comparing Germany and Korea</i></p> |
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| 13.45 – 14.00 | Ja-Hyun Baik (Korea University) <i>Functional Analysis of Dopamine D2 Receptor Signaling Involved in Dopaminergic Neuro-Psychiatric Disorders</i> |
| 14.00 – 14.15 | Mihail-Dumitru Barboiu (European Institute for Membranes), France <i>Dynamic Interactive Multivalent nanoplatfoms</i> |
| 14.15 – 14.30 | Seung Hyun Yoo (Inha University) <i>Calcium Control in Secretory Cells and Related Diseases</i> |
| 14.30 – 14.45 | Jozsef Banlaki (Bay Zoltan Foundation for Applied Research), Hungary <i>RFID applications</i> |
| 14:45 – 15.00 | Coffee break |
| 15.00 – 15.15 | Kyu Lim (Chungnam National University School of Medicine), Korea <i>Anticancer action of w3-polyunsaturated Fatty Acids in Cancers: In Vitro and In Vivo</i> |
| 15.15 – 15.30 | Bela Demeter (Borsod County and Teaching Hospital), Hungary <i>Preclinical research and clinical examination of a new silver nanoparticles coated catheters and intraventricular cerebral catheter, predictive and prognostical study for brain injury outcome</i> |
| 15.30 – 15.45 | J. Jay Liu (Pukyong National University), Korea <i>Surface Characterization of Nanomaterials Based on Image Analysis</i> |
| 15.45 – 16.00 | Ata Akin (Bogaziçi University), Turkey <i>Functional neuroimaging of brain by optical tomography in health and disease</i> |
| 16.00 – 16.15 | Coffee break |
| 16.15 – 16.30 | Uwe Lange (University of Bremen - Institute of Automation), Germany <i>Research on intelligent Rehabilitation Robots to serve the disabled</i> |
| 16.30 – 16.45 | Soo-ik Chang (Chungbuk National University), Korea <i>Development and Application of Microfabricated Electrochemical Biosensors to Life-Long Health</i> |
| 16.45 – 17.00 | Csaba Balazsi (Research Institute for Technical Physics and Materials Science), Hungary <i>Nanohydroxyapatite based composite development for bioapplications</i> |
| 17.00 – 17.15 | Giyoong Tae / Young Ha Kim (Gwangju Institute of Science and Technology), Korea <i>Scaffold Design, Elastic Polymers, and Growth Factor Delivery System for Connective Tissue Regeneration</i> |
| 17.15 – 17.30 | Summary and conclusion of the day by Chair |
| 17.30 | Reception |

Tuesday, 2nd of February 2010**Research for Life-Long Health – Presentation of project ideas****Chair: Prof. In-Sook Kwun** (Andong National University)

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| 09.30 – 10.00 | Arrival and registration |
| 10:00 – 10:15 | Hermann Schluesener (Institute of Brain Research, University of Tuebingen), Germany <i>Treatment of neuroinflammation by epigenome modulation</i> |
| 10.15 – 10.30 | Young Mok Park (Korea Basic Science Institute), Korea <i>Biomarkers for Aging Related Neurodegeneration</i> |
| 10.30 – 10.45 | Bruno Clément (INSERM-National Institute of Health and Medical Research), France <i>F2C18 an antitumoral polypeptide for colon and liver cancers</i> |
| 10.45 – 11.00 | In-Sook Kwun (Andong National University), Korea <i>Zinc Role in Atherosclerotic and Osteogenic Calcification</i> |
| 11.00 – 11.15 | Coffee break |
| 11.15 – 11.30 | Regina Brunauer (Austrian Academy of Sciences), Austria <i>Ageing of human bone-derived mesenchymal stem cells: molecular and cellular cues</i> |
| 11.30 – 11.45 | Noo Li Jeon (Seoul National University), Korea <i>Development of Novel Microfluidic Platform for Neuroscience</i> |
| 11:45 – 12:00 | Michael Lawo (TZI Universitaet Bremen), Germany <i>Using wearable and mobile computing solutions to enable a longer healthy living at home</i> |
| 12.00 – 12.15 | Jaeseok Kim (Yonsei University), Korea <i>Research on Wireless Communication Modem and BSP (Bio-signal Processor) SoC Design for e-Health Application</i> |
| 12.15 – 13.30 | Lunch (Buffet) |
| 13.30 – 13.45 | Louis Casteilla (CNRS-National Centre for Scientific Research), France <i>Therapeutic uses in regenerative medicine of bone marrow and adipose derived mesenchymal stem cells</i> |
| 13.45 – 14.00 | Gun-Il Im (Dongguk University Ilsan Hospital), Korea <i>Cartilage and Bone Tissue Engineering from Mesenchymal Stem Cell</i> |
| 14.00 – 14.15 | Gabor Mezo (Research Group of Peptide Chemistry-Eötvös Lorand University), Hungary <i>Targeting of antitumour/antimicrobial drugs by peptide/protein bioconjugates</i> |

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| 14.15 – 14.30 | Kyeong-Deok Moon (<i>Electronics and Telecommunications Research Institute</i>), Korea <i>Service Middleware and User Interface Technology Supporting Well-Being Life Style for Aged Person</i> |
| 14.30 – 14.40 | Summary and conclusion of the day by Chair |
| 14.40 – 15.00 | Coffee break |
| 15.00 – 17.00 | Face-to-face Networking Sessions The afternoon session is dedicated to individual networking sessions where European and Korean stakeholders will have the opportunity to meet in two or small groups to discuss their work and future cooperation. The face-to-face networking opportunities will be made possible upon previous registration by submitting a researcher profile. The profile template can be downloaded from the KORANET project website (www.koranet.eu). During the face-2-face networking sessions, the researchers will also have the opportunity to ask questions regarding the KORANET Pilot Joint Call directly to the national contact points (NCPs) from those countries participating in the funding of the Pilot Joint Call. In order to make an arrangement for the face-to-face networking session please refer to the ‘Researcher Profile Catalogue’ on the KORANET webpage and send an e-mail to Ms. Marinela POPA (marinela.popa@cnrs-dir.fr) regarding your request. |

Due to the multidisciplinary nature of the KORANET Pilot Joint Call and the partnering event, the participants are highly encouraged to participate in all sessions of the two-day event.

APPENDIX 2: Participants List of KORANET Pilot Joint Call Partnering Event

| <u>SURNAME</u> | <u>FIRST NAME</u> | <u>INSTITUTION</u> |
|----------------|-------------------|---|
| 1. Ahn | Chang-Won | Electronics and Telecommunications Research Institute (ETRI) |
| 2. Akın | Ata | Bogazici University |
| 3. Bach | Jordi Esplluga | Centre for the Development of Industrial Technology (CDTI) |
| 4. Baik | Ja-Hyun | Korea University |
| 5. Balazsi | Csaba | Research Institute for Technical Physics and Materials Science |
| 6. Banlaki | Jozsef | Bay Zoltan Foundation for Applied Research |
| 7. Barboiu | Mihail-Dumitru | European Institute for Membranes |
| 8. Bien | Zeungnam | Ulsan National Institute of Science Technology (UNIST) |
| 9. Brunauer | Regina | Austrian Academy of Sciences |
| 10. Bustamante | Silke | Berlin School of Law and Economics |
| 11. Casteilla | Louis | University Toulouse III/CNRS |
| 12. Chae | Heesung | Electronics and Telecommunications Research Institute (ETRI) |
| 13. Chang | Soo-Ik | Chungbuk National University |
| 14. Chung | Sang J. | KRIBB |
| 15. Chang | Pyung | Korea Advanced Institute of Science and Technology (KAIST) |
| 16. Chi | Su-Young | Electronics and Telecommunications Research Institute (ETRI) |
| 17. Choi | Doo- Yong | Ministry of Education, Science and Technology (MEST) |
| 18. Choi | Miran | Electronics and Telecommunications Research Institute (ETRI) |
| 19. Choi | Chang- Yeong | Gangwon Embedded Software Cooperative Research Center (GEMS) |
| 20. Choi | Jinhee | University of Seoul (UQS) |
| 21. Choi | Hae Woon | Keimyung University |
| 22. Choi | Kyung | Kangwon National University |
| 23. Choi | Seong Soo | SunMoon University |
| 24. Choi | Seong Soo | Sun Moon University |
| 25. Chun | Sejong | Korea Research Institute of Standards and Science (KRISS) |
| 26. Chung | Mijin | National Research Foundation of Korea |
| 27. Clement | Bruno | INSERM-National Institute of Health and Medical Research |
| 28. Demeter | Bela | Borsod County and Teaching Hospital |
| 29. Enste | Peter | Institute for Work and Technology |
| 30. Eryilmaz | Gülsün | The Scientific and Technological Research Council of Turkey (TUBİTAK) |
| 31. Heinrichs | Gerold | International Bureau of the BMBF at the German Aerospace Agency (DLR) |
| 32. Im | Gun-II | Donnguk University Iisan Hospital |

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| 33. Jang | Ji-Sun | Ministry of Education, Science and Technology (MEST) |
| 34. Jeon | Noo-li | Seoul National University (SNU) |
| 35. Jung | Heeyoung | Electronics and Telecommunications Research Institute (ETRI) |
| 36. Jung | Hyungil | Yonsei University |
| 37. Kang | Soojin | Seoul National University of Technology |
| 38. Karasu | Çimen | Gazi University |
| 39. Kim | Pan suk | Yonsei University |
| 40. Kim | Young Je | Yonsei University |
| 41. Kim | Young Ha | Gwangju Institute of Science and Technology (GIST) |
| 42. Kim | Jaeseok | Yonsei University |
| 43. Kim | In-Ho | National Research Foundation of Korea (NRF) |
| 44. Kim | Jong-Deok | National Research Foundation of Korea (NRF) |
| 45. Kim | Juneyhung | Dong-A University |
| 46. Kim | Songhee | Molecular Biotechnology and Biomaterials Lab (MBBL) |
| 47. Kim | Youngho | Seoul National University of Technology |
| 48. Kim | Joohyung | Yonsei University |
| 49. Kim | Yun Joong | Hallym University |
| 50. Kim | Dong Ha | Ewha Womans University |
| 51. Kim | Chong-Hyon | Sungkyunkwan University (SKKU) |
| 52. Kim | Seongjin | Duksung Women's University |
| 53. Kim | Minjeoung | University of Seoul (UOS) |
| 54. Kraus | Silke | International Bureau of the BMBF at the German Aerospace Agency (DLR) |
| 55. Kwon | Youngeun | Dongguk University |
| 56. Kwon | Myoung Hee | Pohang University of Science and Technology (POSTECH) |
| 57. Kwun | In-Sook | Andong National University |
| 58. Lange | Uwe | University of Bremen- Institute of Automation |
| 59. Lawo | Michael | TZI Universitaet Bremen |
| 60. Lee | Doo Yong | Korea Advanced Institute of Science and Technology (KAIST) |
| 61. Lee | Un-woo | Ministry of Education, Science and Technology (MEST) |
| 62. Lee | Yong Mo | National Research Foundation of Korea (NRF) |
| 63. Lee | Gyu Myoung | Telecom & Management Sud Paris |
| 64. Lee | Hyun Chang | Wonkwang University |
| 65. Lee | Hyunjeong | University of Seoul (UOS) |
| 66. Lim | Kyu | Chungnam National University School of Medicine |
| 67. Lipkowski | Janusz | Polish Academy of Sciences |
| 68. Liu | J. Jay | Pukyong National University |
| 69. Mallick | Sudipta | Kyungwon University |

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| 70. Mezö | Mezö | Eötvös Lorand University |
| 71. Moon | Kyeong-Deok | Electronics and Telecommunications Research Institute (ETRI) |
| 72. Oh | Suk-Heung | Woosuk University |
| 73. Oh | Kyung-Sik | Andong National University |
| 74. O'Hare | Danny | Imperial College London |
| 75. Pak | Myongsop | Sungkyunkwan University (SKKU) |
| 76. Park | Youngmok | Korea Basic Science Institute (KBSI) |
| 77. Park | Jin-Seon | Ministry of Education, Science and Technology (MEST) |
| 78. Park | Chan Kyu | Electronics and Telecommunications Research Institute (ETRI) |
| 79. Popa | Marinela | Centre National de la Recherche Scientifique (CNRS) |
| 80. Ryu | Samsun | Human Net co. Ltd |
| 81. Samal | Monica | Kyunwon University |
| 82. Scheck | Johanna | Centre for Social Innovation (ZSI) |
| 83. Schluesener | Hermann | Institute of Brain research, University of Tübingen |
| 84. Sihvonen | Markus | VTT Technical Research Centre of Finland |
| 85. Steinberger | Marion | International Bureau of the BMBF at the German Aerospace Agency (DLR) |
| 86. Tae | Giyoong | Gwangju Institute of Science and Technology (GIST) |
| 87. Vivien | Eric | Ambassade de France en Corée |
| 88. Yang | Mihi | Sookmyung Women's University |
| 89. Yoo | Seung Hyun | Inha University School of Medicine |
| 90. Yoo | Jin San | PharmAbcine |
| 91. Yoon | Yuri | Sungkyunkwan University (SKKU) |
| 92. Yun | Hyelee | National Research Foundation of Korea (NRF) |
| 93. Song | Jihwan | CHA University |
| 94. Kim | Deok-Soo | Hanyang University |