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THE CAPITAL OF KNOWLEDGE

NAPLES, APRIL 28-30, 2022

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SECOND INTERNATIONAL CONGRESS

THE CAPITAL OF KNOWLEDGE

Naples, April 28-30, 2022

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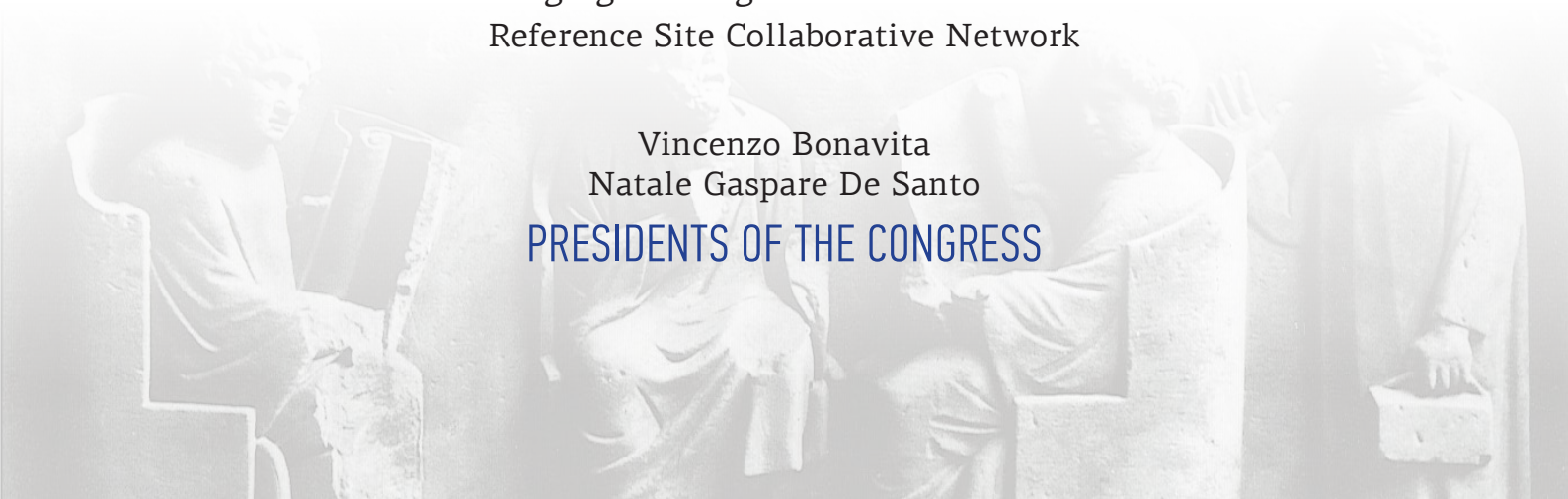

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SECOND INTERNATIONAL CONGRESS

THE CAPITAL OF KNOWLEDGE

Naples, April 28-30, 2022

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Welcome Letter

Dear Colleagues,

It is a privilege and an honor to welcome you to the Second International Congress on *The Capital of Knowledge* of the European Association of Professors Emeriti that will take place in Naples on April 2022.

The main aim of the Congress is to protect the richness of contributions of professors emeriti and of any retired academician throughout Europe. Emeriti belong to the highest centile of the cultural enterprise of all European countries. They are ambulant libraries of their disciplines since more than ninety per cent of the knowledge that counts in their field has been developed during their academic lifespan. Their talents and creativity deserve to be protected and actively utilized. They should not be separated from the academies where they have served, they should just change their role from drivers - a role needing stronger energy-into members of the team, and not merely a minor role, in all human activities. The talent and creativity of emeriti is protected in many European countries where they can contribute to advancement of research and teaching. We are pleased that the European Union allows emeriti to have active roles in the programs they support.

The Naples congress will discuss the importance of Europe as the place of spirit and of politics rendering possible full participation of emeriti professors in mentoring and research. Mentoring is a vocation for life, and aging does not prevent scientific breakthroughs.

The congress of the EAPE is peculiar and is not driven by professional needs but rather by a willingness to serve the position of emeriti in the aging society, in line with the calls of UNO, WHO and the European Union for creative aging.

The problem of aging in artists and scientists is fascinating. As reported by the German poet, essayist and physician Gottfried Benn - nominated for a Nobel Prize five times - in the last four hundred years 150-200 geniuses determined the cultural progress of Western Europe. Half of them were old-old.

The abstracts of the Congress express the many souls of our association, our interest for research and the passion for teaching of our creative members. We would stress that a unique group of abstracts are authored by students, young scientists and still active full professors leading creative groups: they have been requested for assembling some intergenerational sessions, an innovation for this congress. As reported in *Science* in 2005 by Roger Guimerà et al., "Team Assembly Mechanisms Determine Collaboration Network Structure and Team Performance" thus newcomers provide the innovative ideas, the incumbents are "storehouse for the pool of knowledge", thus newcomers working in teams with incumbents (seasoned scientists) will likely produce epochal ideas and breakthroughs teams made only of incumbents will not.

We thank the Hellenic Society of Cardiology and its President Professor Dr. Ioannis-Georgios Kanakakis, FESC, for hosting the abstracts in *Journal of Hellenic Cardiology*.

Recently a symposium on *Ageing of the Population: Challenges and Opportunities for Society and University* took place at the Croatian Academy of Sciences and Arts organized by Mrs. Snježana Prijić Samaržija, PhD, Professor of Philosophy, Rector, University of Rijeka and President of the Young European Research Universities Network and by the Association of Professors Emeriti in Rijeka. Many active, top European scientists in various fields and professors emeriti and emeritae, including the President of EAPE, were invited along with Dubravka Šuica, Vice-President for Democracy and Demography, European Community. The main conclusion of the event was "Building an age-friendly and emeriti/emeritae-friendly university". This goal might be achieved by incorporating into the university all so called universities for the third age, that indeed are not universities. By contrast, in the university there would be all competencies and skills needed to render the university age-friendly as a service to the community. In addition, the creativity of emeriti and emeritae, a special category of professors who represent the highest centile of the cultural richness of a country, should be fully utilized for the activities of university.

The Capital of Knowledge moves from Athens-where the muses conferred creativity to humans-to Naples where the body of the siren Parthenope, daughter of Achelous and the muse Terpsichore, won by Odysseus' creativity, was buried.

Naples and its surroundings—capturing beauty and cultural heritage—represent an additional reason to come and to help making our congress a success.

Natale G. De Santo
EAPE President, Co-Chair of the Congress

Luigi Campanella
EAPE General Secretary

Dennis V. Cokkinos
First President of EAPE

and Vincenzo Bonavita
Co-chair of the Congress

Final Program
Timeline Second EAPE Congress

VENUES

April 28, 2022
1.30 PM - 8.00 PM
AUDITORIUM HOTEL VESUVIO
FREE ADMISSION

April 29, 2022
9.00 AM - 8.00 PM
April 30, 2022
9.00 AM - 1.00 PM
AUDITORIUM UNIVERSITA' FEDERICO II
FREE ADMISSION

PUBLICATION OF ABSTRACTS

Abstracts published in a Supplement of *Archives of Hellenic Medicine* 2022

PUBLICATION OF PROCEEDINGS

The Proceedings of the Second EAPE Congress will be published in a book edited by the Society for the Propagation of Useful Books in Athens.

DAY 1

Thursday April 28, 2022
Main Hall Grand Hotel Vesuvio
45 Via Partenope, Napoli

2.30 PM: Registrations

3.30-5.15 PM: Session 1 (plenary) - Academies (presentations 15 + 5 minutes)

Chairpersons:

Lucija Čok, *Professor Emerita University of Primorska, Koper-Capodistria*
Sir Les Ebdon, *Professor Emeritus University of Bedfordshire, Luton*

Giuseppe Marrucci, University Federico II, President Accademia Pontaniana, Naples, Italy
Accademia Pontaniana: A brief history

Goffredo Sciaudone, University of Campania Luigi Vanvitelli, Naples, President Società Nazionale di Scienze Lettere ed Arti in Napoli, Italy
The need for a unification of "knowledge" in medicine to protect the patient

Christos Zerefos, Faculty of Geology and Geoenvironment, University of Athens, Secretary General Academy of Athens, Greece
Manmade climate change and the world cultural and natural heritage

Wolfgang Kaltenbacher, Italian Institute for Philosophical Studies
The crisis of our age and the Italian Institute for Philosophical Studies

Ortensio Zecchino, President of Biogem, Genetic Research Centre "Gaetano Salvatore", Ariano Irpino, Italy
On the origin of Biogem

5.15-6.30 PM: Opening Ceremony

Vincenzo Bonavita and **Natale Gaspare De Santo,** *Co-Chairs of the II EAPE Congress*
Matteo Lorito, *President University Federico II, Naples*
Francesco Nicoletti, *President University Luigi Vanvitelli, Naples*
Roberto Tottoli, *President University L'Orientale, Naples*
Adolfo Russo, *Vicar for Culture, Church of Naples*
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Liv Mjelde, *Professor Emerita, The Senior Centre, Oslo Metropolitan University*
Nancy Papalexandris, *President of the Association of Professors Emeriti of the University of Economics and Business, Athens*
Constantin Soldatos, *President Hellenic Branch of EAPE*

6.30-7.05 PM: Session 2 (plenary) Lecture (5 min moderator +30 min presentation)

Chairperson: **Raymond Ardaillou,** *Académie de Médecine Paris*

Patrick Berche, Académie de Médecine Paris
Covid-19 Syndemic, a New Concept in Public Health

7.10-7.45 PM: Session 3 (plenary): Special Lecture (5 min moderator +30 min presentation)

Chairperson: **Paolo Pupillo,** *Professor Emeritus University of Bologna*

Riccardo Valentini, Director of the Impact Division of the Euro-Mediterranean Center, Nobel Prize 2007
Climate Change and the Challenge of a Rapid Ecological Transitiom.

DAY 2

Friday, April 29, 2022
Centro Congressi Università Federico II
36 Via Partenope, Napoli

8.00 AM: Registrations

9.00-11.20 AM: Hall A: Parallel Session no. 4 - Workshop on Nature (presentations 12 + 5 min)

Chairpersons:

Nikos Markatos, *National Technical University of Athens, School of Chemical Engineering Athens*
Maria Ochsenkuehn-Petropoulou, *National Technical University of Athens-School of Chemical Engineering*
Franco Pedrotti, *Emeritus Professor University of Camerino*

Franco Pedrotti, Emeritus University of Camerino, Camerino, Italy
Nature conservation in Europe

Orazio Ciancio[1], Piermaria Corona[2], Susanna Nocentini[3], [1]Accademia Italiana Scienze Forestali, [2]Università della Tuscia, [3]Università di Firenze, Florence, Italy
The culture of the forest and the role of knowledge

Paolo Pupillo, Emeritus Professor of Plant Physiology, University of Bologna, Bologna, Italy
Plant photosynthesis and climate

Massimo Pica Ciamarra, University of Naples Federico II Department of Architecture, Naples, Italy
Nature protection

Paolo Ciambelli[1], Marcel Van de Voorde[2] [1]Emeritus Professor, University of Salerno, Fisciano, Italy, [2]Emeritus Professor, Delft University of technology Delft, Delft, Netherlands
Towards a hydrogen economy? Where we are

Luigi Fusco Girard, Università Federico II, Naples, Italy
The transition towards the ecological modernization of society: which contribution of Emeriti Professors in the context of the knowledge economy?

Nicholas-Christos Markatos, National Technical University of Athens, School of Chemical Engineering, Athens, Greece
CFD in environmental engineering and risk analysis

Maria Ochsenkuehn-Petropoulou, National Technical University of Athens-School of Chemical Engineering, Athens, Greece
Aerosol research for atmospheric quality and human health

9.00-11.20 AM: Hall B: Parallel Session no. 5 - Workshop on Infectious and Chronic Diseases

Part A: Infectious Diseases (presentations 12 + 5 min)

Chairpersons:

Guido Bellinghieri, *Accademia Peloritana dei Pericolanti, Messina*
Oliver Ràcz, *Safarik University, Medical School, Kosice*
Halima Resić, *Professor Emerita University of Sarajevo*

Athanasios Diamandopoulos, EKPA, Athens, Greece
Dogs and vultures devouring corpses of victims of pandemics and killed enemies. An historical review

Antonio Pugliese, Department of Veterinary Sciences, University of Messina, Messina, Italy
Pathocenosis (from contagious diseases of antiquity to plagues, epidemics, pandemics and of epizootic diseases)

Vincenzo Savica, Accademia Peloritana dei Pericolanti at University of Messina, Messina, Italy
Epidemic and pandemic: past, present and future

Raymond Ardaillou, French Academy of Medicine Paris France
Vaccination against Covid-19, which vaccine to select?

Ljubisa Mitrovic[1], Dragana Mitrović[2], Dunja Velickovic[3], [1]Emeritus Professor University of Niš Faculty of Philosophy Department of Sociology, [2]Associate, Centre for Balkan Studies, [3]PhD student/associate, Nis Center of Innovation, Niš, Serbia
The global "fugue of death" and the morbid tartuffian games of the pharmaceutical mafia. (Socio-anthropological marginalia and the causes and consequences of the Covid-19 pandemic for the contemporary man and society)

Part B: Chronic Diseases (presentations 12 + 5 min)

Halima Resić, Medicine University, Sarajevo, Bosnia and Herzegovina
Trends in renal replacement therapy in Bosnia and Herzegovina in the last decade

Guido Bellinghieri, Accademia Peloritana dei Pericolanti, Messina, Italy
Organ donation and transplantation in Europe: how far has it progressed?

Giancarlo Bracale, Emeritus Professor of Vascular Surgery, University Federico II, Naples, Italy
Mediterranean federation for advancing vascular surgery (Me.F.A.V.S.): premise, aims, opportunities, actual scientific results

11.20-11.40 AM: Break

11.40 AM - 1.40 PM: Hall A: Parallel Session no. 6 - Intergenerational Workshop on Mental Health

(presentations 12 + 5 min)

Chairpersons:

Rosa Musolino, *Department of Clinical and Experimental Medicine; University of Messina*
Giuseppe Sorrentino, *Professor of Neurology University of Naples Parthenope*

Giuseppe Sorrentino, Professor of Neurology University of Naples Parthenope, Institute of Applied Sciences and Intelligent Systems, CNR. Pozzuoli, Naples, Institute Hermitage Capodimonte, Naples, Italy
Brain flexibility and neuro degenerative diseases

Carmine Vitale, Associate Professor of Neurology, Department of Motor Sciences and Wellness, University Parthenope and Regional Net for Parkinson's Disease and Movement Disorders, Istituto di Diagnosi e Cura, Hermitage Capodimonte, Naples, Italy
About Parkinson's disease

Raffaele Sperandeo, DISU University of Basilicata, Potenza, Italy
Relational field and complex networks: the contribution of computational sciences to psychotherapy

Davide Viggiano, Department of Translational Medical Sciences, University of Campania "L.Vanvitelli", Naples, Italy
Neuro-nephrology in advanced age: will the kidney function lead to eternal youth of the mind?

Goffredo Sciaudone, Rosetta Rossi, Francesca Sciaudone, Università degli Studi della Campania Luigi Vanvitelli, Naples, Italy
Neuroplasticity and maieutics of emotions: a work of integration

George N. Christodoulou, Athens University, Society of Preventive Psychiatry, Board Member EAPE, Athens, Greece
Mental health impact of disasters: avoid, mitigate or just tolerate?

Rosa Musolino, Department of Clinical and Experimental Medicine; University of Messina , Messina, Italy
Stroke Medicine from Antiquity to today

11.40 AM - 1.40 PM: Hall B: Parallel Session no. 7 - Workshop on Ethics, Children and Older Person

(presentations 12 + 5 min)

Chairpersons:

Luigi Campanella, *General Secretary of EAPE, University of Rome La Sapienza*
Michael Kunze, *Emeritus Professor of Public Health, University of Vienna*

Alberto Girlando, Molecular Materials Group, Parma, Italy
Integrity of Science, the information industry and the myth of excellence

Hartmut Frank, Bayreuth Center of Ecology and Environmental Research, University of Bayreuth, Germany
Corona, a challenge to ethics in science

Lucija Čok, Luigi Campanella, George Christodoulou, Jože Gričar, Heinrich C. Mayr, Carole-Lynne Le Navenec and **Greg Sadlek,** Universities: Primorska and Maribor (Slovenia), Sapienza (Rome, Italy), Athens Medical School (Greece), Alpen Adria Universität (Klagenfurt, Austria), Calgary (Canada), Cleveland University (USA)
Ethical and legal aspects related to the contributions of emeriti professors to the public good (1st part)

Rumyanka Dimitrova, Varna Free University, Varna, Bulgaria
The elderly and children

Dana Baran, "Grigore T. Popa" University of Medicine and Pharmacy, Department of Preventive Medicine and Interdisciplinarity, Iasi, Romania
Relevance of the person's identity and the alterity of masks

Dušanka Mičetić-Turk, Faculty of Medicine, University of Maribor; Center for Retired and Professors Emeriti of the University of Maribor, Slovenia
Life and academic activities of professors emeriti and retired professors on university of Maribor

1.40-3.00 PM: Break

3.00-5.35 PM: Hall A: Parallel Session no. 8 - Workshop on The Capital of Knowledge - 1st PART -

(presentations 12 + 5 min)

Chairpersons:

Christos Bartsocas, *Emeritus National & Kapodistrian University of Athens*
Malcolm Phillips, *Charing Cross Hospital, London*
Giancarlo Bracale, *Emeritus University Federico II, Board Member of APEF*

Dimitrios Yfantis, Department of Chemical Engineering Technical University of Athens, Athens, Greece
Ancient chemical technology: the invention of mineral acids and aqua regia in an Arabic or Hellenistic achievement? – An interdisciplinary approach

Gaetano Vincenzo Pelagalli, Giuseppe Paino, Department of Veterinary Medicine University of Naples Federico II, Naples Italy
The Birds as artistic expression of ancient Pompeii

Christos Bartsocas, National & Kapodistrian University of Athens, Athens,Greece
Georgios Gemistos "Plethon": an exceptional Greek scholar at the 1438 Florence Council and his influence in Italian Renaissance

Natale Gaspare De Santo[1], Carmela Bisaccia[2] and Luca Salvatore De Santo[3], [1]Emeritus Università della Campania Luigi Vanvitelli, [2]Istituto Mazzini Napoli, [3]Division of Heart Surgery Università della Campania Luigi Vanvitelli, Naples, Italy
On the admirable aging creativity of Roman pontiffs in the years 1492-2005

Gaetano Thiene, Emeritus Professor University of Padua, Padua, Italy
The dawn of cardiovascular medicine at the university of Padua (1222-2022), land of the doges

Giuseppe Paino, Gaetano Vincenzo Pelagalli, Department of Veterinary Medicine, University of Naples Federico II, Naples, Italy
The"fonifero" of Giovanni Paladino (1876) first hearing aid

Malcolm Phillips[1], Natale Gaspare De Santo[2], [1]Charing Cross Hospital, London, UK, [2]Univesity Luigi Vanvitelli, Naples
Robert Schrier – A world leader in Nephrology

Oliver Râcz, Joseph Fövényi, Safarik University, Medical School, Kosice, Slovakia & Miskolc University, Faculty of Healthcare, Hungary
Light for diabetic patients thanks to Eva Maria Kohner (1929-2021), a Jewish baroness from Budapest

3.00-5.35 PM: Hall A: Parallel Session no. 9 - Workshop on The Capital of Knowledge - 2nd PART -

(presentations 12 + 5 min)

Chairpersons:

Athanasios Diamandopoulos, *Medical School EKPA, Athens*
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Paolo Ciambelli, *Professor Emeritus University of Salerno*

Lorenzo A. Pinna, Department of Biomedical Sciences, The University of Padova, Padova, Italy
Curiosity driven science: the capital of useless knowledge

Stella Priovolou, Department of Latin and Italian Literature, University of Athens, Greece
The European Union and its cultural heritage

Luigi Campanella, Department of Chemistry, Università La Sapienza, Rome, Italy
Right to knowledge of European Citizens

Enzo Viccaro, New Scarlatti Orchestra, Naples, Italy
A portrait of the artist as an old man: paths and secrets of creative longevity in musical art

Massimiliano Marotta, President of the Italian Institute for Philosophical Studies, Naples, Italy
Reconciliation: the modernity of Sophocles' Philoctetes

Luigi Santini, Olimpio Guerriero, Stefano Sepe, Università degli Studi della Campania Luigi Vanvitelli, Naples, Italy
The human capital of age

Maddalena Illario, Department of Public Health/R&D Unit, Federico II University & Hospital, RSCN, Naples, Italy
Innovative approaches to prevent frailty: overcoming bottlenecks to validation and scale up

5.35-5.50 PM: Break

5.50-7.20 PM: Hall A - (Plenary): Assembly (EAPE Members only)

8.30 PM: Social Event

DAY 3

Saturday, April 30, 2022
Centro Congressi Università Federico II
36 Via Partenope, Napoli

9.00-9.40 AM: Hall A Session no.10 (Plenary) Lecture (5 min moderator +30 min presentation)

Chairperson: **Gaetano Thiene,** *President Accademia Olimpica Vicenza, Emeritus Professor University of Padua*

Dennis V. Cokkinos, Department of Cardiology University of Athens
Cardiology in the 21st Century

9.45-11.30 AM: Session no.11 (Plenary) Contemporary Hot Topics (Presentations 12 min + 5 min)

Chairpersons:

George Christodoulou, *Athens University, Society of Preventive Psychiatry, EAPE Board Member*
Carlo Lauro, *President Association of Professors Emeriti Federico II, Naples*

Liv Mjelde, The Senior Centre, Oslo Metropolitan University, Oslo, Norway
Vocational Learning: The art of reflective curiosity

Vincenzo Bonavita, University Federico II, Naples, Italy
Diagnostic error and clinical method in neurology

Luigi Campanella, Lucija Čok, George Christodoulou, Jože Gričar, Heinrich C. Mayr, Carole-Lynne Le Navenec and **Greg Sadlek,** Universities: Primorska and Maribor (Slovenia), Sapienza (Rome, Italy), Athens Medical School (Greece), Alpen Adria Universität (Klagenfurt, Austria), Calgary (Canada), Cleveland University (USA)
Ethical and legal aspects related to the contributions of emeriti professors to the public good (2nd part)

Rado Pišot, Science and Research Center, Institute for Kinesiology research, Koper, Slovenia
Physical inactivity vs physical activity- Will We survive?

Sir Les Ebdon, University of Bedfordshire, Luton,UK
How the pandemic has exacerbated educational inequalities

Sir Adrian Smith PRS, President of The Royal Society, London, UK
The Communication of science in a pandemic

11.30-11.40 AM: Break

11.40 AM-1.10 PM: Session no.12 (Plenary) Intergenerational Workshop on Aging (Presentations 12 min + 5 min)

Chairpersons:

Alessandra Perna, *Professor of Nephrology, University Luigi Vanvitelli, Naples*
Ferdinando Auricchio, *Emeritus University Luigi Vanvitelli, Naples*

Francesco Salvatore, University Federico II Naples, Naples, Italy
From the inversion of the paradigm between"aging and disease" to the "biomedical person"concept

Alessandra Perna, Department of Translational Sciences, University of Campania Luigi Vanvitelli, Naples, Italy
Chronic kidney disease: a human model of accelerated aging

Livia D'Angelo, Department of Veterinary Medicine and Animal Production, University Federico II, Naples, Italy
Nothobranchius furzeri: a tankful of opportunities for ageing research

Anna Iervolino, Department of Medical Translational Sciences, University of Campania Luigi Vanvitelli, Naples, Italy
Zebrafish: a model organism to study the focal segmental glomerulosclerosis

1.00-1.10 PM: Session no.13 (Plenary)

The next Congress of the European Association of Professors EmeritI

Chairpersons:

Vincenzo Bonavita, Natale G De Santo, *Co-chairs of the Congress*

Sir Les Ebdon, University of Bedfordshire
The Third EAPE Congress on the Capital of Knowledge

1.10 PM: Lunch

An elective didactic activity for medical student structured on *The Capital of Knowledge*

Professor Alessandra Perna, Full Professor of Nephrology, and Professor Davide Viggiano, Associate Professor of Nephrology at the University of Campania Luigi Vanvitelli in Naples have organized around the Second Congress on *The Capital of Knowledge*, an elective didactic activity for medical student that will receive specific credits from the Medical Faculty.

The Elective Didactic Activity (ADE), an integral part of the curriculum, are didactic activities chosen by the student. ADE, as an integral part of the curriculum of the student, aim to personalize the student's educational path on the basis of their inclinations and interests, deepening specific knowledge and training aspects by discussion of topics that are not included in the "core curriculum" of the Integrated Courses.

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April 28-30, Naples, Italy

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Académie de Médecine
Paris

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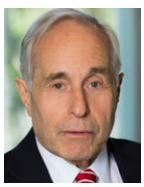

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Professor of Neurology
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of the Second International Congress of
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April 28-30, Naples, Italy

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Académie de Médecine
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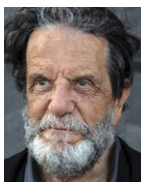

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Ortensio Zecchino
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The Lectures
(abstracts)

Patrick Berche

COVID-19 SYNDEMIC
A NEW CONCEPT IN PUBLIC HEALTH

Patrick Berche
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The pandemic of Covid-19 has emerged in 2019. Its lethality rate (deaths/ symptomatics) is estimated at ~ 0.5% in Western countries and up to 1-2% in several Southern countries. The rapid identification of the coronavirus SARS-Cov-2 allowed rapidly to develop diagnostic tests and to design very effective vaccines. In the 1990s, the anthropologist Merryl Singer introduced the innovative concept of syndemic, which opens new and global perspectives in the epidemiological approach to pandemics, such as AIDS, tuberculosis and malaria. A syndemic disease is characterized by the intertwining of biological, sociocultural and environmental factors that can aggravate the mortality rates of these diseases. A pandemic cannot be reduced to the interaction between a virus and a population. Its management must take into account the health status of populations, living conditions, cultural contexts, mentalities, behaviors, as well as the social, political and economic forces at play. The concept of syndemic applied to Covid-19. This pandemic is superimposed on other contagious diseases (AIDS, malaria, tuberculosis) and also to genuine non-infectious pandemics (diabetes, obesity, cardiovascular diseases, cancers, malnutrition...). These chronic diseases contribute to the mortality rate of Covid-19, which mainly affects the elderly people and high-risk patients. The concept of syndemic also includes sociocultural determinants that play a major role in the development of Covid-19, which suddenly highlights the social disparities and the inequality of exposure, particularly the promiscuity linked to cramped housing and precariousness. Moreover, the emergence of this pandemic creates stress and fear leading to the stigmatization of patients and their contacts, denial of the pandemic, rejection of science, disinformation and fake news that create an irrational suspicion that can lead to violence. Fear is also related to social isolation induced by barrier measures and lockdown, with consequences for the mental health of individuals. Indeed, the Covid-19 pandemic has a strong impact on mental illness, including children, and an increase in suicide rates. In addition, the robustness of the health and social assistance systems, which depends on long-term political decisions, plays also an important role on the consequences of Covid-19. This syndemic approach opens new perspectives in the management of major health crisis that must be considered globally, not only at the level of a country but at that of the whole world. It highlights the importance of socio-economic, behavioral and environmental factors, including climat changes and air polution, on the evolution of the pandemic.

Riccardo Valentini

CLIMATE CHANGE AND THE CHALLENGE OF A RAPID ECOLOGICAL TRANSITION

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The issue of climate change and its impact on humanity can no longer be postponed. According to the latest IPCC report, changes observed in the atmosphere, oceans, cryosphere and biosphere provide unmistakable evidence of a warming world. In recent decades, key indicators of the climate system have reached levels not seen in centuries or millennia. The Mediterranean is at the center of an unprecedented climate change. Currently, the average terrestrial temperature of the region has exceeded 1.5° C and is intensifying on the one hand extremes of summer heat and drought and on the other increasing the temperature of the Mediterranean Sea and the dynamics of extra-tropical cyclones. In this context, the climatic scenarios foresee already in 2030 the exceeding of the 2° C threshold and therefore an intensification of the climatic extremes. For the Mediterranean, it is therefore of fundamental importance to act urgently to secure strategic sectors of the economy and society, making production and nature infrastructures more resilient to climate change. The Mediterranean has various vulnerabilities in relation to climate change: hydrogeological instability, agricultural production, urban areas, natural areas, coastal areas and port infrastructures. Regional and local institutions are crucial for the implementation of the climate change adaptation strategy. The ecological transition of society needs continuous dialogue with citizens and local communities in a path of co-creation of the future society. Significant progress has been made in climate research thanks to new super-computing tools and advanced modeling for climate risk prediction and the creation of decision support systems for planning technological investments for adaptation. The integration of the most advanced scientific knowledge with territorial response policies to combat climate change is the only strategy possible today due to the dimension and urgency of the problems which, despite having a global dimension, have a decisive impact on life and development of local communities.

Dennis V. Cokkinos

CARDIOLOGY IN THE 21ST CENTURY

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The past, 20th Century, in which most of us pursued our activities, was a very good era for Cardiology and cardiac surgery, bringing cardiac catheterization, coronary arteriography, coronary care units, open heart surgery, pacemakers, defibrillation, ablation, and Interventional Cardiology, together with new drugs.

The past Century can be seen as the triumph of analog technology.

In the 21st Century we are moving to the digital era, characterized by artificial intelligence, machine learning and precision medicine, molecular mechanisms, gen- and the many other - omics, high-throughput techniques, genetic editing, and many others which cannot be readily guessed, given the fact that medical knowledge currently doubles every 13 months; this trend is expected to further increase.

Predictions can easily be proven wrong. However, I would venture the following expectations: Heart surgery and interventional cardiology will decrease, the former to a greater with a new focus on valvular lesion corrections.

Lipid-lowering, molecular interventions will combat atherosclerosis and its sequelae. In heart failure and also, in arrhythmias, cell therapy will finally come of age under many new guises. Cell death of the myocardium will be prevented and a new facet, Anastasis -rising from the dead- will be encouraged.

However, all these therapies are costly. Financing will become a major problem, necessitating a multidisciplinary approach.

Human survival has increased very strongly in the last century. However, it is becoming apparent that this improvement is stalling, and may be reversed by 2040; this trend has become apparent even before the advent of the COVID-19 pandemic which has already cost 5.5 M lives and a huge economic backlash.

However, every war, and this pandemic is already an Armageddon, inevitably brings progress. I remain confident that Cardiology, a major branch of Medicine, will overcome. Humankind a child of Heaven and the Earth will find means to answer to current challenges and will prevail. We, as senior teachers, have a responsibility to provide our experience and stoicity to help our fellow humans by offering information, encouragement and wisdom, but also by remaining active, continue our research and healing practices.

Session1 on Academies
(abstracts)

Giuseppe Marrucci

ACCADEMIA PONTANIANA: A BRIEF HISTORY

Giuseppe Marrucci
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As long ago as in 1443, Alfonso V of Aragon, new King of Naples founded the Pontaniana academy. After the king, the second President of the Academy was the humanist and literary man Giovanni Pontano, from whom the academy takes its name. However, just a century later, in the troubled times of the Protestant Reformation, the Academy was felt as politically dangerous, and it was suppressed by the Spanish Vice-King, Peter from Toledo, in 1542.

The Pontaniana Academy was born again more than two centuries later, in 1808, when the Neapolitan Kingdom was part of the Napoleon Empire. In the new atmosphere of freedom, a group of intellectuals under the leadership of Vincenzo Cuoco re-founded the academy, which then succeeded in surviving the Restoration, i.e., the coming back of the Bourbon King. The Pontaniana Academy went on successfully up to the present days, with the only exception of difficult times in the last years of the fascist regime, resulting in yet another suppression, followed by a second restoration under the Military Government of the Allies in 1944.

Today, the Pontaniana is made up of the following five classes: Pure and Applied Mathematics; Natural Sciences; Moral Sciences; History, Archeology, and Philology; Letters and Beaux Arts. The academicians of the five classes meet once a month, all together, to favor communication among the different disciplines.

Goffredo Sciaudone

THE NEED FOR A UNIFICATION OF "KNOWLEDGE" IN MEDICINE TO PROTECT THE PATIENT

Goffredo Sciaudone, Carlo Melodia
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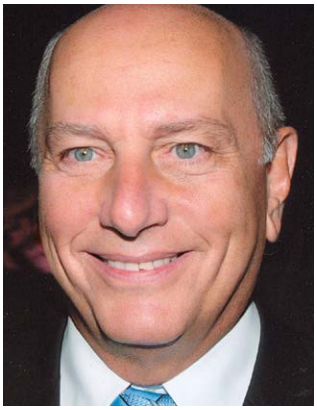
Eurispes and WHO data from 2019 revealed an increasing demand for unconventional medicines: 600 million citizens and about 500,000 doctors in the world. In Italy, the practice of MNC is the exclusive responsibility of the surgeon registered in the professional association and the remedies are on AIFA lists. From this situation the need of health professionals for a multidisciplinary training emerges in order to overcome the limitation of the specialist areas of competence, for a unitary vision of the patient. We will retrace the historical events that saw Naples (1821) as the first city in Europe to meet homeopathy and to introduce it into the Academy of Sciences (1822), then to spread it all around the world. From the 1980s, in Italy the need for a cognitive investigation into homeopathy emerged, also to fit in the European reality. We were actively supported by many Institutional Authorities who had understood the need to recover the figure of the patient in his state of illness. For this purpose and motivated by the exclusive ethical interest, we have been engaged in the training of the homeopathic doctor using, in addition to a group of classical homeopathy teachers, also a large number of University Professors, not only of medical disciplines, to guarantee a judgment skills at the service of the patient according to Hippocratic indications.



Christos Zerefos

MANMADE CLIMATE CHANGE AND THE WORLD CULTURAL AND NATURAL HERITAGE

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Following the recent IPCC report in 2021, there is high certainty that global warming is proceeding faster than thought before. This resulted to the destabilization of our climate, seen clearly in the past few decades by the increase in the number and intensity of extreme weather and geophysical events. As a result of that, cultural and natural heritage became increasingly vulnerable to the adverse effects of global climate change. This unfortunate consequence of climate change has not yet been systematically integrated in global climate change mitigation and adaptation estimates. There is an immediate need for action before the damage to our common heritage becomes irreversible. In this work examples of climate-related damages seen on our natural and cultural heritage are presented. The analysis presents results on climate changes of extreme events indices at 275 UNESCO cultural and natural heritage sites in the Mediterranean. Regional model simulations from Cordex EU project have been used to estimate the changes of extreme precipitation frequency, the fire weather risk index and mean sea level rise at coastal sites in the Mediterranean. The analysis has been done under two climate change scenarios namely RCP4.5 and RCP8.5 for which the changes between 2071-2100 relative to 1971-2000 have been calculated. It has been found that the vast majority of UNESCO heritage sites in the Mediterranean are threatened in a destabilized climate.

Antonio Gargano

THE CRISIS OF OUR AGE AND THE ITALIAN INSTITUTE FOR PHILOSOPHICAL STUDIES

Antonio Gargano

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We live in an age of big changes in all fields of human activities, from economy to spiritual expressions. In front of these changes we are disoriented, we lack of reference points. In order to overcome this condition we need philosophy. As Plato said, we cannot operate well, in adequate direction, if we are not aware of what is good. Theory must come before action.

Philosophy is a creation of the Greek civilization, which was inherited first of all by Europe, but it is a common possibility of the whole mankind because it is grounded on reason, a common treasure of the human being. But philosophy has become a specialist discipline of academic organization of knowledge and has no goals in the public life. This is the reason why, in 1975 the Neapolitan Avvocato Gerardo Marotta 1927-2017 founded the Instituto Italiano per gli Studi Filosofici.

The Nobel Prize in Chemistry and Honorary President of the Institute Ilya Prigogine wrote: "I can say that the rapprochement between physical sciences and the humanities has been facilitated thanks to the Italian Institute for Philosophical Studies. The Neapolitan Institute is an example of such rapprochement in the name of humanism. The institute, in fact, studies the traditional problems of philosophy as well as the classical problems of science. In this sense, the Neapolitan Institute plays a very important role in Europe". The Institute aims at expanding philosophical culture, by blending the major European tradition, but it promotes, alongside philosophical studies, all studies that can contribute to elaborating inherent problems and finding solutions in the spheres of various scientific disciplines, with the contribution of experts of every country in the world.

Ortensio Zecchino

ON THE ORIGIN OF BIOGEM

Ortensio Zecchino

President of Biogem, Genetic Research Centre "Gaetano Salvatore", Ariano irpino

Email: presidenza@biogem.it

In my third age, for a chance, I had the gratifying opportunity to give life to a small-large enterprise with high scientific and social value. In the mid-nineties, when I chaired the Senate Culture, Education and Scientific Research Commission, with Gaetano Salvatore, my beloved friend and renowned physician, and Renato Dulbecco we submitted the proposal for a biology and molecular genetics institute. With Dulbecco's support, I suggested to build it in Ariano Irpino, my home town.

Our project was eventually selected, and Biogem consortium was born in 1997, soon after the unexpected death of Gaetano. At that time I considered my work done, but in 2004 I was asked to get the responsibility for Biogem, which had huge difficulties in starting its activities. Thus I found myself living a bet that is daring and stimulating at the same time.

Even if only half of the structure was ready, the institute was opened in 2006 at the presence of Rita Levi Montalcini. During the following years we have been working hard in order to complete the structure and to develop scientific activities, trying to make Biogem not only an important biomedical research centre, but also a cultural institute operating in a very suburban area. A Museum of Earth and Life History has been created, and Biogem organizes a yearly meeting, "The two cultures", in order to facilitate the dialogue among scientists and scholars in the humanities.

Biogem has got important endorsements, including from several Nobel Laureates, and it has been visited by the President Sergio Mattarella in 2018.

Sir Adrian Smith

THE COMMUNICATION OF SCIENCE IN A PANDEMIC

Prof Sir Adrian Smith PRS
President, The Royal Society, London

Email: president@royalsociety.org

The past two years have seen science thrust, very publicly, into the very heart of all our societies. Virology, Epidemiology and complex mathematical modelling have moved from the scientific journals to the front pages of national newspapers and websites and led all news reports. Science has been celebrated for the speed at which it provided understanding of the virus and the scientific community has been lauded for the success of treatments and ultimately for delivering vaccines that have changed the game. However, there have been major challenges to how we communicate science and the inherent uncertainty that lies at the heart of the scientific endeavour. In a time of crisis people want certainty and they often think that is what science is about. They think of the lists of scientific laws they learnt at school. But science, particularly at the cutting edge, is all about uncertainty and it is vital that people understand that. It is vital that scientists communicate not only what they do know, but how confident they are in that knowledge and importantly what they do not know. We also need our media and opinion leaders to accurately reflect what the scientists are saying. Many policy makers initially used a mantra of 'following the science' as though somehow there was a simple set of instructions and that if mistakes were made it was the fault of 'the science'. Of course, 'the science' does not exist. A little over two years ago, no one had heard of COVID-19. A huge, open, international collaboration sequenced its genome with amazing speed but today we can still not predict where or when significant variants will emerge or what they will look like. The exposure to so much scientific information for so many people will have raised the general level of scientific literacy and that is a good thing – it will hopefully have not just allowed people to gain knowledge but also to gain an understanding of how that knowledge was acquired and what its limits are.

That will be the measure of how well we have communicated science in the pandemic.

INSTRUCTIONS TO AUTHORS

The *Bull Eur Assoc Profs Emer* is the bimonthly cultural Journal of the European Association of Professors Emeriti (www.Europemeriti.org) that supports the vocation of Professors Emeriti for teaching and Research. It is structured in two main section *Original manuscripts* that undergo peer review and the *section on News t*hat covers the life of the association and is under the care of the Editorial board.

The Bulletin adopts the Vancouver style. Authors are invited to visit the website of the Association and read the last issue. Manuscripts shall be in good English in Word, font 12, with good illustrations and shall be emailed to the editor in Chief, Natale Gaspare De Santo MD.

• Email: nataleg.desanto@unicampania.it

Original manuscripts (Word file) around 900-1100 words shall include affiliation(s), email and phone numbers of the authors, as well as 5 keywords from the manuscript. Preferably titles should not exceed the length of 50 characters (spaces included). A portrait of the 1st author is required. 1 Figure and 1 Table (emailed on separate sheets) and a maximum of 6 references and a minimum of 3 are allowed. References must be numbered and ordered sequentially as they appear in the text. When cited in the text, reference numbers are to be in round brackets.

Manuscripts related to news about emeriti and their associations shall be limited to a maximum of 500 words, and up to 3 references; no portrait of the author is required, but 1 Figure or 1 Table can be added.

All manuscripts undergo editing.

At the end of the article number references consecutively in the order in which they are first mentioned in the text. For articles with more than 6 authors, list the first 3 authors before using "et al."; For articles with 6 authors, or fewer, list all authors.

JOURNALS

1. *Journal article published electronically ahead of print:* Authors may add to a reference, the DOI ("digital object identifier") number unique to the publication for articles in press. It should be included immediately after the citation in the References.

Bergholdt HKM, Nordestgaard BG, Ellervik C. Milk intake is not associated with low risk of diabetes or overweight-obesity: a Mendelian randomization study in 97,811 Danish individuals. Am J Clin Nutr 2015 Jul 8 (Epub ahead of print; DOI: *doi:10.3945/ajcn.114.105049*).

2. *Standard journal article*. List all authors when 6 or fewer; when 6 or more, list only the first 3 and add "et al." Abbreviate journal titles according to *Index Medicus* style, which is used in MEDLINE citations.

De Santo NG, Altucci P, Heidland A et al. The role of emeriti and retired professors in medicine. Q J Med 2014;107: 407-410

3. Committee on Infectious Diseases, American Academy of Pediatrics. Measles: reassessment of the current immunization policy. Pediatrics 1989; 84.1110-1113.

BOOKS and other MONOGRAPHS

1. Personal authors

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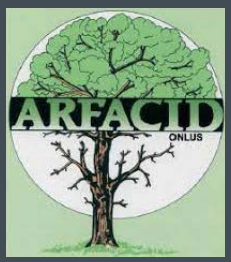

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