

FIRST INTERNATIONAL MEETING ON

BRAIN-KIDNEY INTERACTION

THE BRAIN AND KIDNEY: FROM PHYSIOLOGY TO CLINICS



NAPLES (ITALY), 23 th-24 th NOVEMBER 2023

Aula Magna - Congress Center <u>Via Partenope, 36</u> - Naples (Italy) Organized by Prof. Giovambattista Capasso





RATIONALE

Brain dysfunction is highly prevalent in the population. However, patients suffering from kidney disease have an even greater risk for brain dysfunction, compared to the remaining population. Unfortunately, the pathogenesis of brain-kidney dysfunction remains elusive. Neuropsychological and brain imaging data are now starting to be gathered, thereby characterizing this pathological entity.

Data from animal and cellular models suggest several mechanisms and possible avenues for future interventions: mono-aminergic systems, glymphatics, neural stem cells are among the neural structures vulnerable to uremic toxins and, in turn, responsible for the cognitive dysfunctions in chronic kidney disease and dialysis patients. Because kidney function can be replaced by artificial systems (dialysis) or renal transplantation, there is hope that this specific form of cognitive impairment might be prevented or even cured. Furthermore, the comprehension of brain-kidney interaction could disclose our understanding of other neurological diseases.

This first meeting on brain-kidney axis will join renowned international speakers from different fields aiming at unraveling the mechanisms and future therapeutic options for this new clinical entity. The character of this meeting will insist on the interdisciplinary interaction among speakers (neurologists, nephrologists, neuroscientists, epidemiologists, renal physiologists, geriatricians, experts in regenerative medicine, precision medicine, imaging and diagnostics).

Finally, the meeting is very keen to enable young renal and neuroscience scientists to submit their excellent researches that will be discussed in one poster session.

Giovambattista Capasso

CHAIR OF THE MEETING

Giovambattista Capasso

University of Campania "Luigi Vanvitelli" Naples, Italy Biogem Research Institute Ariano Irpino, Italy

ENDORSEMENTS REQUESTED

ERA – Leading European Nephrology

SIN - Società Italiana di Nefrologia

SIN - Società Italiana di Neurologia

CO-ORGANIZED BY



FONDAZIONE INTERNAZIONALE MENARINI

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ORGANIZING SECRETARIAT



Arseducandi Srl

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PRELIMINARY PROGRAMME

THURSDAY, 23th NOVEMBER

THURSDAY, 23TH NOVEMBER 2023 - MORNING

08.00 a.m. - 09.00 a.m. Registration to the Meeting

09.00 a.m. - 09.30 a.m. Opening Ceremony

G. Nicoletti Rector University of Campania "Luigi Vanvitelli"

O. Zecchino President Biogem **S. Bianchi** President SIN

M. Fontana FRA Executive Director

09.30 a.m. - 10.00 a.m. Introduction to the Meeting

Chairperson: P. Messa (Milan, IT)

Why a conference on Brain-kidney cross-talk?

G. Capasso (Ariano Irpino, IT)

SESSION I

Chairpersons: **F. Esposito** (Naples, IT), **S. Frische** (Aarhus, DK)

10.00 a.m. - 10.30 a.m. A new way of looking into brain function:

the lesson from FMRI **G. Tedeschi** (Naples, IT)

10.30 a.m. - 11.00 a.m. How to study effects of CKD on the brain by 2-photon

in-vivo microscopy

E. Gutiérrez (Aarhus, DK)

11.00 a.m. - 11.30 a.m. Visual cortical function in patients with inherited

retinal diseases treated with gene therapy

F. Simonelli (Naples, IT)

11.30 a.m. - 12.00 p.m. Coffee break

PRELIMINARY PROGRAMME

THURSDAY, 23th NOVEMBER

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Chairpersons: J. Małyszko (Warsaw, PL)

P. Romagnani (Florence, IT)

12.00 p.m. - 12.30 p.m. The Bardet Biedl Syndrome: co-existence of kidney and

brain dysfunction in a rare genetic disorder'

M. Zacchia (Naples, IT)

12.30 p.m. - 01.00 p.m. Cancer, Kidney Failure and Cognition

S. Kesler (Austin, USA)

01.00 p.m. - 01.30 p.m. How to perform a phase 1 clinical trial

A. Capasso (Austin, USA)

01.30 p.m. - 03.00 p.m. Lunch

THURSDAY, 23TH NOVEMBER 2023 - AFTERNOON

SESSION III

Chairpersons: N. Endlich (Greifswald, DE)

G. La Manna (Bologna, IT)

03.00 p.m. - 03.30 p.m. Kidney function and cerebral blood flow

M.A. Ikram (Rotterdam, NL)

03.30 p.m. - 04.00 p.m. Renal and systemic role of uromodulin

L. Rampoldi (Milan, IT)

04.00 p.m. - 04.30 p.m. Opportunities and obstacles for drug development

R. Unwin (London, UK)

04.30 p.m. - **05.00** p.m. *Coffee break*

PRELIMINARY PROGRAMME

SESSION IV

Chairpersons: Ph. Jaeger (London, UK), A. Pani (Cagliari, IT)

05.00 p.m. - 05.30 p.m. Brain glymphatic system: possible role in CKD

M. Nedergaard (Copenhagen, DK)

05.30 p.m. - 06.00 p.m. Genetic and biochemical markers of brain dysfunction

C. Zoccali (New York City, USA / Ariano Irpino, IT)

KEY NOTE LECTURE 1

Chairperson: G. Piccoli (Le Mans, FR)

06.00 p.m. - 06.40 p.m. Regenerative medicine in brain diseases

G. Martino (Milan, IT)

FRIDAY, 24TH NOVEMBER 2023 - MORNING

KEY NOTE LECTURE 2

Chairperson: **G. Gambaro** (Verona, IT)

09.00 a.m. - 09.30 a.m. Why we humans are different from chimpanzees,

bonobos, Denisovans and Neanderthals

G. Remuzzi (Milan, IT)

PRELIMINARY PROGRAMME

FRIDAY, 24th NOVEMBER

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Chairpersons: **D. Fliser** (Homburg, DE),

G. Paolisso (Naples,IT)

09.30 a.m. - 10.00 a.m. Ageing, CKD and cognitive disorders

F. Mattace Raso (Rotterdam, NL)

10.00 a.m. - 10.30 a.m. Cognitive disorders in in dialysis and transplant patients

C. Franssen (Groningen, NL)

10.30 a.m. - 11.00 a.m. Sodium and Brain function

E. J. Hoorn (Rotterdam, NL)

11.00 a.m. - 11.30 a.m. Coffee break

SESSION VI

Chairpersons: **H.J. Anders** (Munich, DE)

F. Mallamaci (Reggio Calabria, IT)

11.30 a.m. - 12.00 p.m. Phospate and Brain function

C. Wagner (Zurich, CH)

12.00 p.m. - 12.30 p.m. Potassium and Brain function

F. Trepiccione (Naples, IT)

12.30 p.m. - 01.00 p.m. Acid-base and Brain function

P. H. Imenez Silva (Rotterdam, NL)

01.00 p.m. - 03.00 p.m. Lunch

PRELIMINARY PROGRAMME

FRIDAY, 24th NOVEMBER

FRIDAY, 24TH NOVEMBER 2023 - AFTERNOON

SESSION VII

Chairpersons: **A. Perna** (Naples, IT), **P. Ronco** (Paris, FR)

03.00 p.m. - 03.30 p.m. Uremic neurotoxins and brain function

Z. Massy (Paris, FR)

03.30 p.m. - 04.00 p.m. Gut-Brain-Kidney: the stunning interplay

L. Gesualdo (Bari, IT)

04.00 p.m. - 04.30 p.m. Neural Control of Inflammation in AKI/CKD

M. Okusa (Charlottesville, USA)

04.30 p.m. - 05.00 p.m. The kidney-brain nexus. Regulatory and

philosophical implications

M. Farisco (Ariano Irpino, IT/Uppsala, SW)

I. Zecchino (Benevento, IT)

05.00 p.m. **- 05.20** p.m. *Coffee break*

KEY NOTE LECTURE 3

Chairpersons: M. Wang (London, UK)

05.20 p.m. - 06.00 p.m. Role of the endocannabinoidome in neurological

disorders and neuroinflammatory conditions derived

from renal dysfunction

V. Di Marzo (Quebec City, CAN)

06.00 p.m. Summary and closing ceremony

G. Capasso (Ariano Irpino, IT)

D. Goumenos(Patras,GR)

Hans-Joachim Anders	Renal Division, Department of Medicine IV University Hospital, LMU Munich (DE)
Anna Capasso	Department of Medical Oncology -Dell Medical School University of Texas at Austin Austin (USA)
Giovambattista Capasso	University of Campania "Luigi Vanvitelli" Naples Biogem Research Institute Ariano Irpino (IT)
Vincenzo Di Marzo	Department of Medicine and Department of Agricultural and Food Science Laval University Quebec City (CAN)
Nicole Endlich	Institute of Anatomy and Cell Biology University of Greifswald Greifswald (DE)
Fabrizio Esposito	Department of Advanced Medical and Surgical Sciences University of Campania "Luigi Vanvitelli" Naples (IT)
Michele Farisco	Science and Society Unit, Biogem Ariano Irpino (IT) Centre for Research Ethics and Bioethics Uppsala University Uppsala (SW)
Danilo Fliser	Clinic for Internal Medicine IV Renal & Hypertensive Diseases Saarland University Medical Centre Homburg (DE)
Casper Franssen	Department of Nephrology University Medical Center Groningen Groningen (NL)

Giovanni Gambaro Department of Medi Division of Nephrology and Dial AOUI and University of Ver Verona Loreto Gesualdo Division of Nephrology and Dial AOUI and University of Ver Verona Regenerative Medicine and Ionian Area (DiMePr University of Bari Aldo M Bari Eugenio Gutierrez Center for Functionally Integra Neuroscience (C Department of Clinical Medic Aarhus Univer Aarhus Ewout J. Hoorn Department of Internal Medi Division of Nephrology and Transplanta Erasmus Medical Ce Rotterdam M. Arfan Ikram Department of Epidemiol Erasmus University Medical Ce Rotterdam Pedro Enrique Imenez Silva Division of Nephrology and Transplanta Erasmus Medical Ce		
Division of Nephrology and Dial AOUI and University of Ver Verona Loreto Gesualdo Division of Nephrology Department of Precision Regenerative Medicine and Ionian Area (DiMePr University of Bari Aldo M Bari Eugenio Gutierrez Center for Functionally Integra Neuroscience (C Department of Clinical Medic Aarhus Univer Aarhus Ewout J. Hoorn Department of Internal Medi Division of Nephrology and Transplanta Erasmus Medical Ce Rotterdam M. Arfan Ikram Department of Epidemio Erasmus University Medical Ce Rotterdam Pedro Enrique Imenez Silva Division of Nephrology and Transplanta Erasmus Medical Cee	Sebastian Frische	Department of Biomedicine University of Aarhus Aarhus (DK)
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Neuroscience (C Department of Clinical Medic Aarhus University Aarhus Ewout J. Hoorn Department of Internal Medic Division of Nephrology and Transplanta Erasmus Medical Ce Rotterdam M. Arfan Ikram Department of Epidemiol Erasmus University Medical Ce Rotterdam Pedro Enrique Department of Internal Medic Division of Nephrology and Transplanta Erasmus Medical Ce	Loreto Gesualdo	Division of Nephrology Department of Precision and Regenerative Medicine and Ionian Area (DiMePre-J) University of Bari Aldo Moro Bari (IT)
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Paola Romagnani	Division of Nephrology University of Florence Nephrology and Dialysis Unit University Children's Hospital A. Meyer Florence (IT)
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Carmine Zoccali	Renal Research Institute New York City (USA) Institute of Molecular Biology and Genetics (Biogem) Ariano Irpino (IT)

PRELIMINARY PROGRAMME - REGISTRATION - HYBRID EVENT

VIA WEBSITE AND/OR APP - HYBRID EVENT

Subscription to the Reserved Area and to the Event of your interest is required.

REGISTRATION IS FREE.

RESIDENTIAL EVENT

Via website www.en.fondazione-menarini.it

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LIVE STREAMING

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VIA FONDAZIONE MENARINI APP

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PRELIMINARY PROGRAMME - GENERAL INFORMATION

MEETING VENUE

Aula Magna, Congress Centre - Federico II University Via Partenope, 36 - 80121 Naples (Italy)

OFFICIAL LANGUAGE

The official language of the Meeting will be English.

REGISTRATION HOURS FOR RESIDENTIAL EVENT

Attendance at the meeting is free.

For more information and to register please visit the following website:

www.en.fondazione-menarini.it/Home

Thursday, 23 th november: 08.00 a.m. – 06.00 p.m.

Friday, 24th november: 08.00 a.m.- 06.00 p.m.

Please note that times are expressed in Local time (Central European Time - CET)

LIVE STREAMING EVENT ONLINE ON:

Thursday, 23 $^{\rm th}$ november: 08.00 a.m. – 06.00 p.m.

Friday, 24th november: 08.00 a.m.- 06.00 p.m.

FACULTY SLIDE CENTRE OPENING HOURS

Thursday, 23 th november: 08.00 a.m. – 06.00 p.m. Friday, 24th november: 08.00 a.m.- 06.00 p.m.

TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections.

A Slide Center with PCs (Windows and Macintosh operating systems) will be available for Speakers to preview and finalize their presentations. Speakers are kindly requested to submit their presentations to the Slide Center technicians at least one hour before their talks.

LUNCH AND COFFEE BREAKS

Lunch and coffee breaks will be served in the meeting area.

ATTENDANCE CERTIFICATE

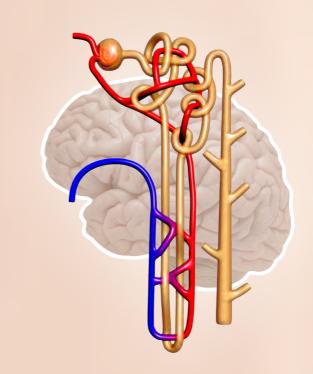
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