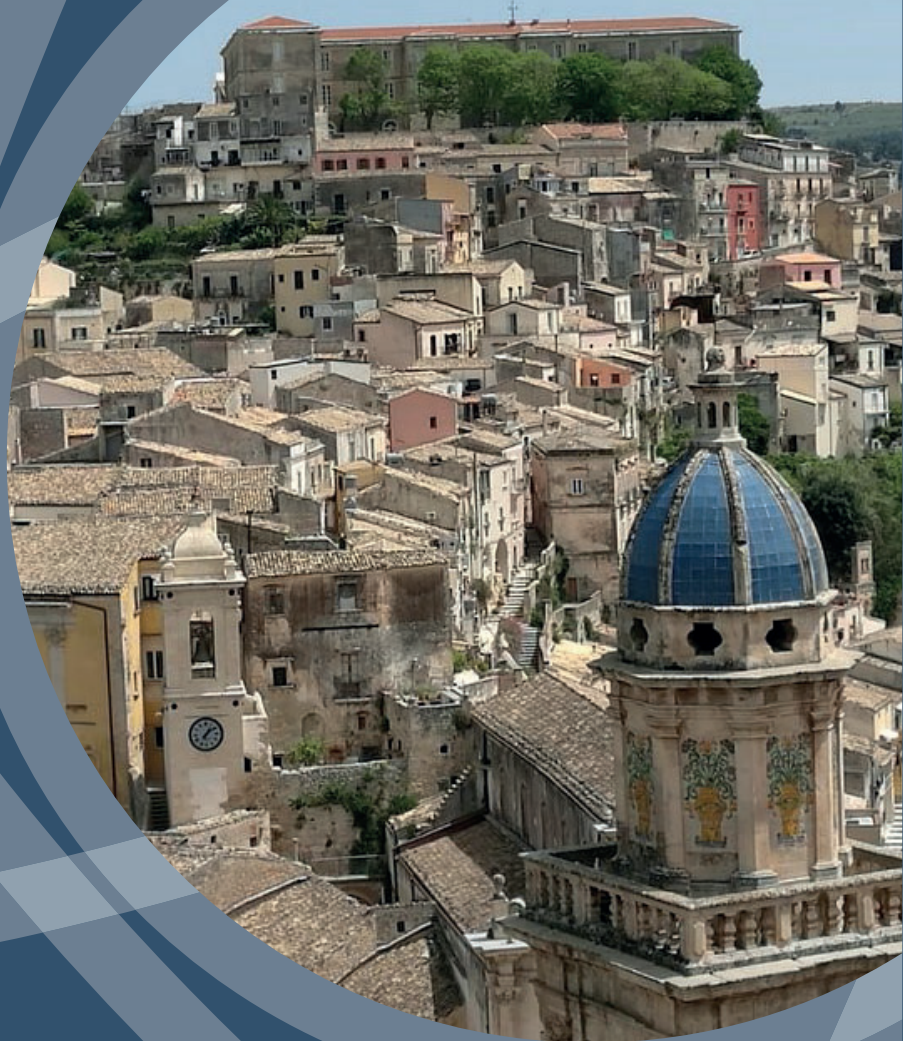




International Society  
for the Development of Research  
on Magnesium (SDRM)



**2<sup>nd</sup> Workshop on Magnesium  
Neuroscience and Nutrition**  
in current Covid-19 Pandemia

Online  
Virtual  
Meeting  
MAY 28-29  
2021

**SCIENTIFIC PROGRAM**

[www.magnesiumworkshop2021.com](http://www.magnesiumworkshop2021.com)

FRIDAY, MAY 28<sup>th</sup>, MORNING

<b>00:02:17 recording time</b>	<b>08:45 - 09:00</b>	<b>Welcome Remark</b> <b>Federica I. Wolf</b> (Rome, <i>Italy</i> )
<b>00:21:49 recording time</b>	<b>09:00 - 09:45</b>	<b>KEYNOTE Lecture</b> <b>Recent advances in magnesium research - from cell biology to human disease</b> <b>Rhian Touyz</b> <i>Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK</i>
<b>01:09:45 recording time</b>	<b>SESSION 1</b>	<b>Magnesium Intake and Health</b>
	<b>Chairmen</b>	<b>Andrzej Mazur</b> (Clermont-Ferrand, <i>France</i> ) <b>Federica I. Wolf</b> (Rome, <i>Italy</i> )
<b>01:10:32 recording time</b>	<b>09:45 - 10:15</b>	<b>Global human magnesium status needs re-evaluation and updated reference values</b> <b>Andrea Rosanoff</b> <i>Center for Magnesium Education &amp; Research, Pahoia, Hawaii</i>
<b>01:46:42 recording time</b>	<b>10:15 - 10:45</b>	<b>When Mg is assessed in Clinical setting?</b> <b>Yee Ping Teoh</b> <i>Dept Clinical Biochemistry, Pathology Department, Wrexham Maelor Hospital, UK</i>
<b>03:34:22 recording time</b>	<b>10:45 - 11:15</b>	<b>Serum magnesium assessment needs for standardization</b> <b>Oliver Micke</b> <i>Klinik für Strahlentherapie und Radioonkologie, Franziskus Hospital Bielefeld, Germany</i>
	<b>11:15 - 11:30</b>	<b>Break</b>
		<b>Oral Communications</b>
<b>02:38:44 recording time</b>	<b>11:30 - 11:45</b>	<b>OC01</b> <b>Systematic review and meta-analysis to determine a reference range for ionized magnesium</b> <b>Nana Gletsu-Miller</b> <i>Indiana University, Applied Health Science, Bloomington, USA</i>
<b>02:58:00 recording time</b>	<b>11:45 - 12:00</b>	<b>OC02</b> <b>Magnesium transporters: discovering new potential biomarkers in digestive cancers</b> <b>Julie Auwercx</b> <i>Université de Picardie Jules Verne, UFR des Sciences, UR-UPJV 4667, Amiens, France</i>
<b>03:15:07 recording time</b>	<b>12:00 - 12:15</b>	<b>OC03</b> <b>TRPM7 is protective against hypertension, cardiovascular inflammation and fibrosis induced by aldosterone and salt</b> <b>Francisco J. Rios</b> <i>Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK</i>
	<b>12:15 - 13:30</b>	<b>Break</b>

## FRIDAY, MAY 28<sup>th</sup>, AFTERNOON

04:05:28 recording time

### SESSION 2 Magnesium in Anxiety, Stress, Depression, Sleep and Pain

*Chairmen* **Louise Dye** (Leeds, *UK*)  
**Giséle Pickering** (Clermont-Ferrand, *France*)  
**Robert Vink** (Adelaide, *Australia*)

04:07:20 recording time

13:30 - 14:00 **Dietary magnesium deficiency impairs hippocampus-dependent memories and induces neuroinflammation in mouse**  
**Satoshi Kida**  
*Graduate School of Agriculture and Life Sciences. The University of Tokyo, Japan*

04:34:45 recording time

14:00 - 14:30 **The effects of Combination of Green Tea, Rhodiola, Magnesium and B Vitamins on brain activity and the Effects of a Laboratory Social Stressor in Healthy Volunteers**  
**Louise Dye**  
*Human appetite research unit – School of Psychology University of Leeds, UK*

04:53:49 recording time

14:30 - 15:00 **Magnesium and Pain comorbidities**  
**Giséle Pickering**  
*Clinical pharmacology department, CHU, Université Clermont Auvergne, Clermont-Ferrand, France*

05:25:39 recording time

15:00 - 15:30 **Magnesium, Vitamin D and Cognitive Function in older adults: results from the US National Health and Nutrition Examination Survey (NHANES) 2011 to 2014**  
**Menghua Tao**  
*Department of Biostatistics and Epidemiology University of North Texas, Fort Worth, USA*

#### *Oral Communications*

05:55:45 recording time

15:30 - 15:45 **OC04**  
**Magnesium in Bipolar Disorders – a general view**  
**Mihai Nechifor**  
*Department of Pharmacology Gr. T Popa University of Medicine and Pharmacy, Iasi, Romania*

06:13:23 recording time

15:45 - 16:00 **OC05**  
**Can Additional Dietary Magnesium Reduce Stress In Pigs?**  
**Emily V. Bushby**  
*Faculty of Biological Sciences, University of Leeds, UK*

06:24:52 recording time

16:00 - 16:15 **OC06**  
**BDNF and GABA-R expression is modulated in human mini-brain organoids in response to magnesium**  
**Alessandra Cazzaniga**  
*Department of Biomedical and Clinical Sciences L. Sacco, University of Milan, Italy*

06:41:20 recording time

16:15 - 16:30 **OC07**  
**Comparison of the efficiency of different endothelial cells in a model of BBB**  
**Laura Locatelli**  
*Department of Biomedical and Clinical Sciences L. Sacco, University of Milan, Italy*

16:30 - 16:45 **Break**

07:17:04 recording time

## SESSION 3 Magnesium, Microbiota and gut-brain axis

*Chairmen* **Valentina Trapani** (Rome, *Italy*)  
**Franco Scaldaferrì** (Rome, *Italy*)

07:18:15 recording time

16:45 - 17:15

**Microbiota and gut-brain axis: nutritional perspectives**

**Antonio Gasbarrini**

*Dipartimento di Medicina e Chirurgia Traslazionale - Fondazione  
Policlinico Gemelli IRCCS*

*Facoltà di Medicina - Università Sacro Cuore – Rome, Italy*

07:59:35 recording time

17:15 - 17:30

**Magnesium for a Healthy Gut Microbiota**

**Valentina Trapani**

*Department of translational medicine and surgery, Faculty of  
Medicine A.Gemelli, Università Cattolica del Sacro Cuore, Roma,  
Italy*

08:17:45 recording time

17:30 - 17:45

**The effect of dietary Magnesium on gut microbiota in mice**

**Federica Del Chierico**

*Multimodal Laboratory Medicine Research Area, Unit of Human  
Microbiome, Bambino Gesù Children's Hospital, Rome, Italy*

08:40:42 recording time

17:45 - 18:00

**Supplementation with a magnesium-rich marine mineral  
blend (MMB) impacts gastrointestinal microbiota,  
inflammation, and behavior**

**Stefanie Grabrucker**

*Department of Anatomy and Neuroscience, University College Cork,  
Ireland*

*Oral Communication*

08:59:08 recording time

18:00 - 18:15

**OC08**

**Low gut microbiota diversity and dietary magnesium intake  
are associated with the development of ppi-induced  
hypomagnesemia**

**Jeroen H.F. de Baaij**

*Dept of Physiology, Radboud University Nijmegen, NL*

## SATURDAY, MAY 29<sup>th</sup>, MORNING

00:35:27 recording time

### SESSION 4 ROUND TABLE on: Magnesium and Covid

*Chairmen* **Stefano Iotti** (Bologna, *Italy*)  
**Jeanette AM Maier** (Milan, *Italy*)  
**Andrzej Mazur** (Clermont-Ferrand, *France*)

00:36:49 recording time

08:30 - 09:00 **COVID-19 epidemiology and clinics**  
**Massimo Galli**  
*Department of Medicine and Infectious Disease – Ospedale Sacco, Milan, Italy*

01:23:08 recording time

09:00 - 09:15 **Magnesium a metabolite that underlies the origin of life**  
**Stefano Iotti**  
*Department of Pharmacy and Biotechnology, University of Bologna, Italy*

01:34:16 recording time

**What does Magnesium have to do with COVID-19?**  
**Jeanette A.M. Maier**  
*Department of Biomedical and Clinical Sciences L. Sacco, University of Milan, Italy*

01:40:00 recording time

09:15 - 09:30 **Dysmagnesemia in Covid-19 cohort patients: prevalence and associated factors**  
**Andrzej Mazur**  
*Human Nutrition Unit, INRA and University of Clermont Auvergne, Clermont-Ferrand, France*

01:50:42 recording time

09:30 - 09:45 **Magnesium and COVID19: Data from the Nationwide US Veterans**  
**Yan Cheng**  
*Biomedical Informatics Center George Washington University, USA*

cancelled

09:45 - 10:00 **Mg pathophysiology in Covid-19: data from Slovakia**  
**Martin Kolisek**  
*Divison Neurosciences at Comenius University in Bratislava, Slovakia*

10:00 - 10:15 **Break**

02:17:47 recording time

10:15 - 10:30 **Mexican study: the ratio serum Mg/Ca and mortality in patients with severe Covid-19**  
**Fernando Guerrero-Romero**  
*Biomedical Research Unit, Mexican Social Security Institute, Durango, Mexico*

02:30:38 recording time

10:30 - 10:45 **Mg pathophysiology in Covid-19: data from Italy**  
**Lucia Merolle**  
*Laboratory of Biochemistry and Metabolomics (BioMetLab), AUSL-IRCCS di Reggio Emilia, Italy*

02:46:02 recording time

10:45 - 11:00 **An integrated immunological point of view**  
**Giuseppe Di Fede**  
*Institute of Biological Medicine-IMBio and of the Institute of Genetic and Preventive Medicine-IMGeP of Milan, Italy*

<b>02:59:48 recording time</b>	<b>11:00 - 11:15</b>	<b>Neurocovid and magnesium</b> <b>Maria Paola Perini</b> <i>Department of Pathology, Gruppo Ospedaliero San Donato, Milan, Italy</i>
<b>03:22:40 recording time</b>	<b>11:15 - 11:30</b>	<b>Post-acute COVID-19 syndrome</b> <b>Matteo Tosato</b> <i>Department of Aging Sciences, Università Cattolica del Sacro Cuore, Fondazione Policlinico Universitario A. Gemelli IRCSS, Rome, Italy</i>
		<i>Oral Communication</i>
<b>03:39:08 recording time</b>	<b>11:30 - 11:45</b>	<b>OC09</b> <b><i>S1 protein of SARS-CoV-2 influences Mg<sup>2+</sup> transporters and the interferon response in human endothelial cells</i></b> <b>Francisco J. Rios</b> <i>Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK</i>
<b>03:51:18 recording time</b>	<b>11:45 - 12:45</b>	<b>ROUND TABLE GENERAL DISCUSSION</b>
<b>04:51:50 recording time</b>	<b>12:45 - 13:30</b>	<b>AWARD NOMINATION AND CLOSING CEREMONY</b>
	<b>Jury:</b>	<b>Mihai Nechifor</b> (Iasi, <i>Romania</i> ) <b>Giséle Pickering</b> (Clermont-Ferrand, <i>France</i> ) <b>Federica I. Wolf</b> (Rome, <i>Italy</i> )

