

**REPORT FOR SUPPORT FROM INTERNATIONAL SOCIETY FOR NEUROCHEMISTRY**

- 1. Basic information:** the title of the meeting was "1st International Conference on Perinatal Origins of Neuropsychiatric Disorders: from molecular mechanisms to therapeutic perspectives", from now on termed as POND2019, held from May 29th to June 1st, 2019 at the Sala Gialla, Royal Palace of the Normans, located in Palermo (Italy). This meeting was organized by Carla Cannizzaro (University of Palermo) and Miriam Melis (University of Cagliari). Webpage is <http://sites.unica.it/perinatal/>.
- 2. Registration and registration fees:** The registration fee was € 200. This fee covered congress materials, welcome cocktail, light lunches, guided tour of the Palatine Chapel, social events on the evenings of both May 30th and 31st, and a guided tour of the Arab-Norman UNESCO site on June 1st with a lunch included. All tickets to enter monuments were also covered by the registration fee. We had a total of 109 attendees of which only 60 paid the registration fee for a total of € 11.931,2.

3. Program:**May 29, 2019**

15:00 – 17:00 Registration (Sala Gialla, Palace of the Normans, Palermo, Italy)

17:00 – 18:00 Preliminary Address: Carla Cannizzaro, Miriam Melis

Opening Ceremony: Gianfranco Miccichè (President Sicilian Parliament); Nello Musumeci (President Sicilian government); Ruggero Razza (Head Regional Health Department); Fabrizio Micari (Rector of the University of Palermo); Francesco Vitale (President of the School of Medicine); Antonio Craxi (Head of PROMISE Department); Toti Amato (President of the Association of Medical Doctors of Palermo)

18:00 – 19:00- Liana Fattore, Cagliari (Italy), introducing Carolyn Salafia, New York (USA)

Lectio magistralis: Placenta as a marker /mediator of fetal origins of lifelong health risks

19:00- Welcome cocktail

May 30, 2019

8:30 – 10:00 Session 1: Glial-immune activation from the mother to the foetus. Chaired by: Antonello Bonci, USA- Patrizia Romualdi, Italy

Sophie Laye, French National Institute for Agricultural Research: Perinatal lipid nutrition role in brain development and later-life emotional behavior and cognition.

Michela Matteoli, Humanitas University, Italy: Immune-synaptopathies: when the immune system affects synapse development and function

Tania Marcourakis, Universidade de São Paulo, Brazil: Tobacco smoke exposure during pregnancy increases the offspring susceptibility to a neuroinflammatory process

Paola Bezzi, University of Lausanne, Switzerland: Dysfunction of homeostatic control of dopamine by astrocytes in the developing prefrontal cortex induces core features of neurodevelopmental disorders

10:00 – 10:30 Coffee break

10:30 – 12:15 Session 2: Prenatal exposure to substance of abuse as a risk factor for neuropsychiatric disorders Chaired by: Yasmin Hurd, USA – Miriam Melis, Italy

Roh Yu Shen, University at Buffalo, USA: Prenatal ethanol exposure leads to persistent cognitive, emotional, and behavioral deficits rescued by environmental enrichment

Olivier Manzoni, Institute de Neurobiologie de la Méditerranée, France: Effects of perinatal cannabinoids during lifetime

Sarah Beggiato, University of Ferrara, Italy: Prenatal THC exposure permanently disturbs kynurenic acid and glutamate levels and amplifies the responsivity to an acute kynurenic challenge in the rat prefrontal cortex.

Elisabetta Gerace, University of Florence, Italy: Chronic Ethanol and Ethanol withdrawal differentially affect the neuronal circuits in immature and mature hippocampal slice cultures.

Aranza Wille Bille, University of Cordoba, Argentina: Prenatal Ethanol Exposure induces an anxiety phenotype, enhances voluntary ethanol consumption and alters both DNA methylation and gene expression of kappa opioid system.

12:15- 13:35 Platform presentation I chaired by Claudio D'addario (Italy)

Serena Stamatakis, Italy – "Alterations of BDNF and class I HDAC enzymes induced by repeated MDMA ("ecstasy") exposure could favour the onset of psychiatric disorders"

Laura Rullo, Italy -"Striatal antioxidant machinery and nigral dopaminergic neurons after MDMA binge intoxication in the mouse: age and gender influence"

Valeria Serra, Italy – "Mao-A hypomorphic mice and their vulnerability traits"

Luisa Ponzoni, Italy- "Perinatal Deletion Of Shank3 Gene In Pv Positive Neurons Induces Neurological Alterations Which Are Rescued By Ganaxolone Treatment"

Silvia Bussone, Italy – "Early-life Stress, Global Methylation and Psychopathology"

Lucia Caffino, Italy– "Activity – based anorexia alters the glutamate synapses in adolescent female rats: focus on the prefrontal cortex"

Filippo Mirabella, Italy – "Inflammation and synaptogenesis: The role of Interleukin-6 in developing neurons"



Francesco Traccis, Italy – “Psychotic-like endophenotype induced by prenatal THC exposure is rectified by pregnenolone”

Antonia Manduca, France- “Sex-dependent effects of in utero cannabinoid exposure on behavioral and cortical function”

Fabio Bellia, Italy – “Prenatal alcohol exposure and postpartum alcohol use patterns: preliminary data on the effects of environment enrichment on transcriptional regulation of relevant key genes”

Andrew Scheyer, France- “Enduring effects of perinatal cannabis exposure”

Mihaela Bobić Rasonja, Croatia – “Transcriptome analysis of the human fetal anterior cingulate gyrus”

Francesca Manuela, Switzerland – “The impact of early life trauma can be reversed by environmental enrichment”

13:35 – 14:30 Light lunch

14:40-15:15 Tour of the Palatin Chapel

15:15 – 17:10 Session 3: Perinatal exposure to prescription drugs: consequences on neurodevelopment

Chaired by: *Carla Cannizzaro*, Italy – *Olivier Manzoni*, France

Viviana Trezza, Roma Tre University, Italy: Prenatal valproate in rodents as a tool to identify underlying molecular mechanisms and new therapeutic targets for Autism Spectrum Disorder

Guido Mannaioni, University of Florence, Italy: Functional investigation of the reward striatal system in the valproic acid model of autism

Tim F. Oberlander, University of British Columbia: Prenatal exposure to SSRI antidepressants and the perinatal origins of neuropsychiatric disorders

Jodi L. Pawluski, University of Rennes, Inserm, France: Perinatal SSRI exposure effects on social behaviors and neuroplasticity: role of fetal sex

Erica Zamberletti, Insubria University, Italy: Cannabinoid treatment rescues autism-like behaviors and dampens hippocampal microglia activation induced by prenatal valproic acid exposure in rats

17:10 – 17:30 Coffee break

17:30 – 18:30 Micaela Morelli, Cagliari, (Italy) introducing: *Yasmin Hurd*, Mount Sinai, New York (USA)

Lectio Magistralis – Unlocking the neurobiological impact of developmental cannabis and psychiatric risk

19:30- Charming Palermo – food & music in a secret venue

May 31, 2019

9:00 – 10:00 Gaetano Di Chiara, Cagliari (Italy), introducing: *Antonello Bonci*, Johns Hopkins University; University of Maryland School of Medicine; Georgetown University School of Medicine, Baltimore (USA) Lectio magistralis:

Therapeutic potential of transcranial magnetic stimulation during pregnancy

10:00 – 11:20 Session 4: Role of maternal milieu on offspring vulnerability to develop neuropsychiatric disorders

Chaired by: *Sophie Laye*, France – *Domenico Pellegrini-Giampietro*, Italy

Muriel Koehl, Neurocentre Magendie, Bordeaux, France: Vulnerability to PTSD-like memory impairments induced by stress in utero

Anna Brancato, University of Palermo, Italy: Prenatal cannabinoid stimulation and alcohol vulnerability: an overview on adolescent offspring

Bice Chini, CNR Neuroscience Institute, Italy: The Oxytocin system in the developing brain: evidence from mouse models of neurodevelopmental disorders

Vincenzo Micalè, University of Catania, Italy: Behavioral and neurochemical alterations induced by perinatal Δ^9 -THC exposure are counteracted by early cannabidiol treatment

11:20 – 11:40 Coffee break

11:40 – 13:00 Session 5: Perinatal insults and adversities on neurodevelopmental trajectories

Chaired by: *Viviana Trezza*, Italy – *Christian Chiamulera*, Italy

Marco Bortolato, Health University of Utah, USA: The interplay of nature and nurture in antisocial behavior: insights from animal models

Claire Thornton, Royal Veterinary College, University of London, UK: Exendin-4: targeting an antidiabetic drug at neonatal hypoxic-ischaemic brain injury

Clarissa Catale, Sapienza University of Rome, Italy: Long-term effects of early-life stressful experiences on brain plasticity: an analysis through perineuronal nets

Stefania Schiavone, Foggia University, Italy: Effects of pharmacological NOX-inhibition on neuropathological alterations induced by ketamine administration in early postnatal life

13:00 – 14:00 Light lunch

14:00 – 15:20 Platform presentation II chaired by *Daniela Parolaro* (Italy) and *Giuseppe Crescimanno* (Italy)

Samantha Baglot, Canada- Inhaled delivery of cannabis during pregnancy: Pharmacokinetics and level of exposure in developing offspring

Florencia Anunziata, Argentina- Ethanol's sensory attributes trigger respiratory disruptions and appetitive facial responses in human newborns prenatally exposed to maternal binge drinking episodes

Juan P. Luaces, Argentina – Neurorestorative and protective effects of palmitoylethanolamide in perinatal asphyxia: an analysis of the rat striatum

Julietta P Aguggia, Argentina – Multiparity dampened the neobehavioral consequences of mother-pup separation stress in dams

Luca Posa, Canada– Selective melatonin MT2 receptor ligands induce antiallodynic effect through the descending brainstem antinociceptive pathways modulation and opioid interaction

Rafik Marir, Algérie –“Fluorescent ligands to determine the distribution of central rat V1B receptors”



Jessica Duarte, Brazil-“Study of effect of ovariectomy and hormonal replacement on the melanin-concentrating hormone in lactating and non-lactating rats: analysis of the MPOA PVH and IHy”

Theresa M. Kisko, Germany-The effects of Cacna1c haploinsufficiency on maternal behaviour and offspring anxiety levels in rats.

Salvatore Lecca, Switzerland- Limiting habenular hyperactivity ameliorates maternal separation-driven depressive-like symptoms

Gianluca Lavanco, France – Binge drinking during adolescence as a vulnerability factor for migraine? Focus on Calcitonine gene-related peptide

Maud Martinat, France– Role of dietary n-3 polyunsaturated fatty acid in memory and hippocampal synaptic plasticity in male and female mice

Chiara Boscardin, Switzerland- Transgenerational inheritance of early life trauma

Indrek Heinla, Norway–Perinatal SSRI exposure affects prosocial behavior in adult rats

15:20 – 15:50 Coffee break

15:50 – 17:20 Session 6: Bridging the gap from bench to bed evidence: the emergence of therapeutic strategies

Chaired by: Marco Bortolato, USA – Marco Diana, Italy

Eva Redei, Northwestern University, USA: Endocrine and behavioral characteristics of Fetal Alcohol Spectrum Disorder: treatment strategies

Omry Koren, Bar-LLan University, Israel: A microbiome is born: how microbes contribute to a healthy pregnancy and infancy

Chloe J Jordan, NIDA, Baltimore, USA: Developmental exposure to drugs of abuse: scope of the problem and treatment strategies for impending psychiatric risk

Marta Busnelli, CNR Neuroscience Institute, Italy: Targeting the oxytocin system: novel therapeutic agents for neuropsychiatric disorders

17:30 – 18:30- Closing remarks and Round Table: Protecting the brain: from scientific evidence to institutional trajectories discussed by Ruggero Razza (Region Councilor of Health), Roberto Lagalla (Region Councilor of Education), Margherita La Rocca Ruvolo (Regional Parliament of Sicily), Salvatore Cuzzocrea (Recotr of University of Messina, Italy), Filippo Drago (Catania, Italy)

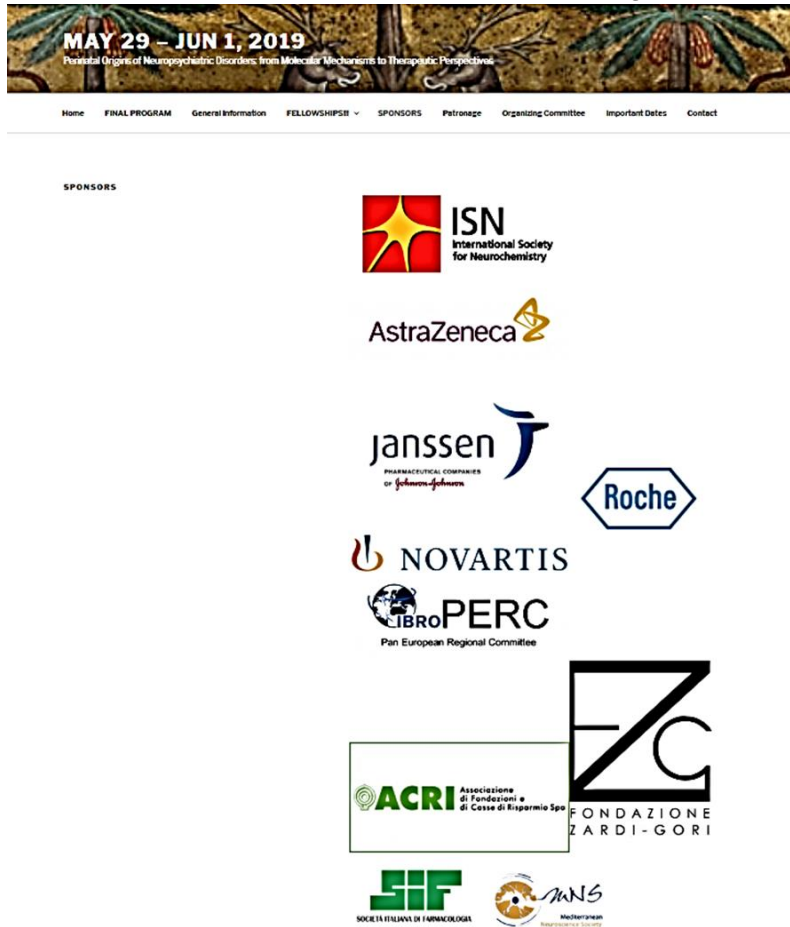
20:30- Gala Dinner with Award ceremony

4. **Speakers:** The invited speakers that had committed and were actually attending the meeting were ten, in details they are listed below: Sophie Laye (France) Michela Matteoli (Italy), Tania Marcourakis (Brazil), Roh Yu Shen (USA), Olivier Manzoni (France), Viviana Trezza (Italy), Guido Mannaioni (Italy), Marco Bortolato (USA), Eva Redei (USA), Omry Koren (Israel). We also selected the following speakers from the submitted abstracts that were included in the regular scientific sessions: Paola Bezzi (Switzerland), Sarah Beggato (Italy), Elisabetta Gerace (Italy), Aranza Wille Bille (Argentina), Tim F. Oberlander (Canada), Jodi L. Pawluski (France), Erica Zamberletti (Italy), Muriel Koehl (France) Anna Brancato (Italy), Bice Chini (Italy), Vincenzo Micale (Italy), Claire Thornton (UK), Clarissa Catale (Italy), Stefania Schiavone (Italy), Chloe J Jordan (USA), Marta Busnelli (Italy). We also had two *Platforms* (one on the morning of may 30th and the other one on the afternoon of may 31st) where those young researchers that submitted their work to be presented as a poster were allocated 6 minutes to present their data in a *data-blitz format* to the audience.
5. **Plenary Speakers:** The plenary speakers were Carolyn Salafia (USA), Yasmin Hurd (USA), Antonello Bonci (USA).
6. **The highlight of the meeting:** We believe that the highlight of the meeting was that many young researchers could attend it and could be provided a partial coverage of their travelling expenses through several types of awards. This is particularly important for those from Universities with limited resources for research or teaching. All senior and mid-career researchers congratulate with us for having so many young researchers from three different continents. In addition, during the award ceremony, the following awards were given: 15 recipients of the Young Investigators Training Program award funded by ACRI, 12 recipients of IBRO PERC (to cover registration fees), 10 recipients of SIF (Italian Society of Pharmacology) to cover registration fees, 6 recipients of ISN travel award. Moreover, 12 young researchers were awarded for “Oral best presentation” funded by ISN (n.7), MNS (n.1) and Zardi Gori Foundation (n.4). The possibility of awarding young researchers contributed to the successful outcome of the meeting during which everyone experienced a very informal atmosphere.



7. **Participants:** With regard to career stage, we had the following types of attendees: 41 were identified as early stage researchers, 10 were invited speakers, 3 plenary lecturers and the remaining 55 were senior and mid-career researchers. With regard to nationality, we had covered 12 different Countries: 5 EU countries (Italy, France, Germany, Croatia, Norway), 5 extra-EU Countries (USA, Canada, Argentina, Brazil, Algeri) and 2 associated-EU Countries (Switzerland, Israel).
8. **Material distribution:** The distribution of the conference material occurred at the registration desk during the days of the meeting. The following material was provided: a conference book, a block note, one pen, the invitations to the social events, and sponsor material.
9. **Social events:** We hosted several social events. First, a welcome cocktail on the evening of may 29th was held at the Royal Palace of Normans. On may 30th, after lunch and before the afternoon sessions, we provided a guided tour of the Palatine Chapel. The very same night we held an event at *Alle Terrazze* in Mondello with finger food and live music (played by an international classical and jazz guitarist Francesco Buzzurro <https://www.francescobuzzurro.it/?lang=en>), which was very much appreciated by all attendees. On may 31st, in the very same location in Mondello we hosted the gala dinner during which there was the Award Ceremony of the young researchers. Pictures of these events can be found in the facebook page of the meeting ([https://www.facebook.com/pg/perinataloriginsofneuropsychiatricdisorders/photos/?ref=page_int](https://www.facebook.com/pg/perinataloriginsofneuropsychiatricdisorders/photos/?ref=page_internal) [ernal](https://www.facebook.com/pg/perinataloriginsofneuropsychiatricdisorders/photos/?ref=page_int)). On June 1st, we took those attendees that signed up for a guided tour of the UNESCO Arab-Norman heritage site within the city of Palermo. We had lunch in the stunning location of Villa Tasca (<https://villatasca.com/en/villa-palermo/>) and then we headed to Monreale where the Cathedral, part of the UNESCO site, is located. We then went back to the city center of Palermo where everyone had some spare time around.
10. **Travel awards:** The following young researchers were recipient of ISN travel awards as it is also stated in our webpage (<http://sites.unica.it/perinatal/isn-travel-award-recipient-list/>): Aguggia Julieta (Argentina), Bustelo Tejada Martin (Argentina), Jordan Chloe (USA), Manuella Francesca (Switzerland), Scheyer Andrew (France), Wille-Bille Aranza (Argentina)
11. **Travel subsidies for Invited Speakers/Plenary Speakers:** We only covered the accommodation and transfer (from and to the airport; and from the hotel to the meeting venue) for invited and plenary speakers and these expenses can be found in the budget. In details, accommodation expenses amount was €6.690 and their transfer was a total of €494.

12. Sponsorship: The list of sponsors can be found in the budget. In details, we were sponsored by few pharmaceutical companies (Roche, Janssen, Astra Zeneca, Novartis), local and international scientific Societies and Organizations (ISN, IBRO, ACRI), the Sicilian Tourism Department and both the Universities of Palermo and Cagliari.



13. General budget; detailed ISN budget, how the ISN funds were utilized: Budget follows the detailed scheme below. ISN funds were utilized to partially cover invited/plenary speakers accommodation expenses at the Mondello Palace Hotel and their transfer fetching them from and to the airport.

Expenses			Income		BALANCE
Categories		amount	Categories	amount	
Secretariat and Provider CME	CFSS	3550	registrations	5931,2	
Social Dinner and Gala Dinner	mida	6220,01	registrations CFSS	1650	
Artist for social dinner	Buzzurro/Zarcone	1200	registrations sponsored by SIF	2000	
Technical services and conference photograph	100cento	1353,29	registrations sponsored by IBRO	2400	
Hostess + Resp. Provider	Scauso	1687,5	Sponsorships		
Transfer hotel-venue	Reginella Bus/Caravello	2200	Roche	3000	
Accommodation invited speakers	Mondello Palace Hotel	6690	Janssen	3000	
Transfer apt invited speakers	Spada/Sorce	1160,5	AstraZeneca	1500	
social event photograph	Vincenzo Michelucci	150	Novartis	1500	
roll-ups - conference kit - flyer - invitations	arte visiva	1507,32			
printed material (booklet, posters, programs, abstract books, cavalieri, certificates)	Centro Stampa di Ateneo	487,41	ACRI contribution to Secretariat	3000	
coffee break + light lunch	Caffarelli/BAR	4950	IBRO contribution to secretariat	1600	
gadgets	Ceramicando	525,19	University of Palermo	1800	
Guided Tour	Villa Tasca - visit and lunch	3300	Assessorato per il Turismo - Region of Sicily	3000	
	Monreale tickets CoopCulture	500	ISN contribution (40% of 17.500 USD)	6000	
	santa Caterina church entrance	38	ISNtravel grants + prizes (60 % of 17.500 USD)	9400	
	Martorana church entrance	40	Zardi Gori Foundation Prizes	2000	
	whispers	125	ACRI research prizes	54000	
	Tourist guides	550	Mediterranean Neuroscience Society prize	500	
	Palatine Chapel entrance - fondazione federico II	155			
ACRI research prizes	15 young investigators	54000			
ISN Travel grants + best presentation prizes	13 young investigators	9400			
Zardi Gori Foundation Prizes	4 young investigators	2000			
Mediterranean Neuroscience Society prize	1 young investigator	500			
TOTAL	euro	102289	euro	102281,2	-8,02

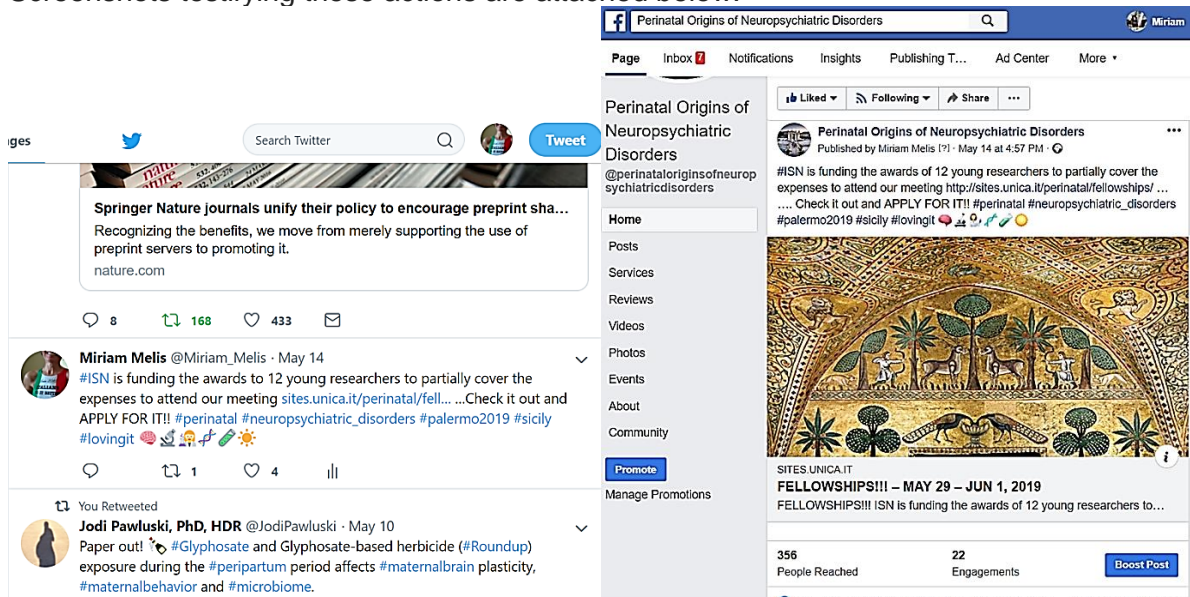
**14. List of participants:** The finalized list of participants is below as follows:

1. Julieta Aguggia, Institute of Research in Health Sciences UNC. FCEFYN (INICSA-CONICET-UNC), Córdoba, Argentina
2. Florencia Anunziata, Instituto de Investigación Médica Mercedes y Martín Ferreyra (INIMEC-CONICET-UNC), Córdoba, Argentina
3. Samantha Baglot, University of Calgary, Calgary, Canada
4. Sarah Beggiano, University of Ferrara, Ferrara, Italy
5. Fabio Bellia, University of Teramo, Teramo, Italy
6. Paola Bezzi, DNF, UNIL, Lausanne, Switzerland
7. Mihaela Bobić Rasonja, Croatian Institute for Brain Research, University of Zagreb, Zagreb, Croatia
8. Antonello Bonci, Johns Hopkins University, National Institute on Drug Abuse, Baltimore, US
9. Marco Bortolato, University of Utah, Salt Lake City, US
10. Chiara Boscardin, Brain Research Institute, University of Zurich, Zurich, Switzerland
11. Ursula Brain, University of British Columbia, Vancouver, Canada
12. Anna Brancato, University of Palermo, Palermo, Italy
13. Marta Busnelli, CNR Institute of Neuroscience, Milan, Italy
14. Silvia Bussone, La Sapienza, Department of Dynamic and Clinical Psychology, Rome, Italy
15. Lucia Caffino, University of Milan, Milan, Italy
16. Carla Cannizzaro, University of Palermo, Palermo, Italy
17. Francesca Felicia Caputi, University of Bologna, Bologna, Italy
18. Adele Caputo, Infant Neuropsychiatry ASP Enna, Enna, Italy
19. Giancarlo Carbone, AstraZeneca, Italy
20. Maria Paola Castelli, Department of Neuroscience, University of Cagliari, Cagliari, Italy
21. Valentina Castelli, University of Palermo, Palermo, Italy
22. Clarissa Catale, Sapienza University of Rome, Rome, Italy
23. Cristiano Chiamulera, University of Verona, Verona, Italy
24. Bice Chini, CNR, Milan, Italy
25. Chiara Colliva, University of Modena and Reggio Emilia, Modena, Italy
26. Antonio Craxi, University of Palermo, Palermo, Italy
27. Claudio D'Addario, University of Teramo, Teramo, Italy
28. Marco Diana, University of Sassari, Sassari, Italy
29. Gaetano Di Chiara, University of Cagliari, Cagliari, Italy
30. Vincenzo Drago, Roche, Italy
31. Filippo Drago, University of Catania, Catania, Italy
32. Jessica Duarte, University of Sao Paulo, San Paolo, Brazil
33. Luca Ferraro, University of Ferrara, Ferrara, Italy
34. Elisabetta Gerace, University of Firenze, Firenze, Italy
35. Indrek Heinla, UiT, the Arctic University of Norway, Tromsø, Norway
36. Yasmin Hurd, Icahn School of Medicine at Mount Sinai, New York City, US
37. Daniela Iezzi, University of Firenze, Firenze, Italy
38. Chloe Jordan, NIDA Intramural Research Program, Baltimore, US
39. Theresa Kisko, Phillips University of Marburg, Marburg, Germany
40. Muriel Koehl, INSERM U1215 - Neurocentre Magendie, Bordeaux, France
41. Alexander Kon, Israel
42. Omry Koren, Bar Ilan University, Israel
43. Gianluca Lavanco, Inserm U1215 - Neurocentre Magendie, Bordeaux, France
44. Sophie Layé, Université Victor Segalen Bordeaux 2, Bordeaux, France
45. Salvatore Lecca, DNF- UNIVERSITY OF LAUSANNE, Lausanne, Switzerland
46. Juan Pablo Luaces, ININCA-CONICET, BUENOS AIRES, Argentina
47. Guido Mannaioni, University of Firenze, Firenze, Italy
48. Francesca Manuela, Brain Research Institute, University of Zurich, Zurich, Switzerland
49. Olivier Manzoni, INMED, INSERM U1249, Marseille, France
50. Tania Marcourakis, University of Sao Paulo, São Paulo, Brazil
51. Rafik Marir, Ecole Nationale Supérieure de Biotechnologie, Constantine, Algeria
52. Maud Martinat, Université Victor Segalen Bordeaux 2, Bordeaux, France
53. Michela Matteoli, Humanitas Research Hospital, Rozzano, Milano, Italy
54. Miriam Melis, University of Cagliari, Cagliari, Italy
55. Giovanni Merlino, ASP Palermo, Palermo, Italy
56. Vincenzo Micale, University of Catania, Catania, Italy
57. Filippo Mirabella, Humanitas Research Hospital, Rozzano, Milano, Italy
58. Federica Monteleone, University of Palermo, Palermo, Italy
59. Micaela Morelli, University of Cagliari, Cagliari, Italy
60. Anna Lisa Muntoni, University of Cagliari, Cagliari, Italy
61. Tim Oberlander, University of British Columbia, Vancouver, Canada
62. Daniela Parolaro, Fondazione Zardi Gori, Milano, Italy
63. Jodi Pawluski, Univ Rennes 1, Rennes, France
64. Domenico Pellegrini Giampietro, University of Firenze, Firenze, Italy
65. Fulvio Plescia, University of Palermo, Palermo, Italy
66. Andrea Plumari, Janssen Cilag, Palermo, Italy
67. Luisa Ponzoni, CNR, INSTITUTE OF NEUROSCIENCE, Milano, Italy
68. Luca Posa, McGill University, Montreal, Canada
69. Eva Redei, Northwestern University Feinberg School of Medicine, Chicago, US
70. Laura Rullo, University of Bologna, Bologna, Italy
71. Salvatore Russo, Asp Palermo, Palermo, Italy
72. Carolyn Salafia, Placental Analytics New Rochelle, NY, US
73. Andrew Scheyer, INMED, Marseille, France
74. Stefania Schiavone, University of Foggia, Foggia, Italy
75. Manuel Schröter, ETH Zurich, Basel, Switzerland
76. Valeria Serra, University of Cagliari, Cagliari, Italy
77. Roh-Yu Shen, State University of New York at Buffalo, Buffalo, US
78. Serena Stamatakis, University of Bologna, Bologna, Italy
79. Evelyn Steiner, Israel
80. Claire Thornton, University of London, London, UK
81. Francesco Traccis, University of Cagliari, Cagliari, Italy
82. Emanuele Trapolino, ASP Palermo, Palermo, Italy
83. Viviana Trezza, Roma Tre University, Rome, Italy
84. Francesco Vitale, University of Palermo, Palermo, Italy
85. Aranza Wille-Bille, Instituto de Investigación Médica Mercedes y Martín Ferreyra (INIMEC-CONICET-UNC), Córdoba, Argentina
86. Erica Zamberletti, University of Insubria, Varese, Italy
87. Roberto Lagalla, University of Palermo, Palermo, Italy

- 88. Salvatore Cuzzocrea, University of Messina, Messina, Italy
- 89. Margherita La Rocca Ruvolo, Palermo, Italy
- 90. Giuseppe Marchese, Novartis, Italy
- 91. Gaspare Cannizzaro, Palermo
- 92. Giuseppe Crescimanno, University of Palermo, Italy
- 93. Rosalba Accardi, Palermo, Italy
- 94. Simona Bartolozzi, Palermo, Italy
- 95. Donatella Battiati, Palermo, Italy
- 96. Martin Bustelo, University of San Juan, Argentina
- 97. Giuseppina Campisi, University of Palermo, Italy
- 98. Emanuele Cannizzaro, University of Palermo, Italy
- 99. Roberto Cassata, Palermo, Italy
- 100. Domenico Cipolla, ASP Palermo, Palermo, Italy
- 101. Antonio Coppola, Palermo, Italy
- 102. Adriana Cordova, University of Palermo, Palermo, Italy
- 103. Giacomo De Leo, University of Palermo, Palermo, Italy
- 104. Salvatore Feo, University of Palermo, Palermo, Italy
- 105. Gaspare Gulotta, University of Palermo, Palermo, Italy
- 106. Giulia Letizia Mauro, University of Palermo, Palermo, Italy
- 107. Raffaella Martino, University of Palermo, Palermo, Italy
- 108. Mario Palazzo Adriano, Palermo, Italy
- 109. Gianfranco Miccichè, President of the Regional Parliament of Sicily, Palermo, Italy

15. Confirmation of the used of the provided ISN slides to inform the audience on ISN and on the benefits of an ISN membership: ISN could not provide us with the promotional slides as stated in the email written by Antonis Pattakos on may 24th. This happened because for some technical problems we received the notification of sponsorship by ISN only on may 14th, which was two weeks before the beginning of the meeting and made impossible for Dr. Pattakos to provide us with the promotional slides by the time that the POND meeting was held. However, we made clear that ISN extremely generously supported the meeting POND2019 in different ways, including stating several times the travel supports for six young researchers and awards for seven best oral presentations.

16. Confirmation of the posting of information on the ISN supported event on the ISN Social Media channels before the event took place: As soon as we received the information regarding ISN supports (on may 14th) we used social media, such as twitter (by using Miriam Melis personal account) and facebook (via posting on the POND page then shared by the people involved in the organization), to advertise ISN support of our meeting. Screenshots testifying these actions are attached below:



17. Confirmation of the posting of some concluding statements with pictures on the success of the ISN supported event on the ISN Social Media channels after the event took place: We confirm that we have posted the successful support by ISN of travel awards on may 28th in the facebook page of POND2019 meeting (<https://www.facebook.com/perinataloriginsofneuropsychiatricdisorders/>) and on twitter. We also confirm that we posted the recipients of the “ISN Best Oral presentation” by also including a picture that is attached below.



18. Photos All the photos of the PON2019 meeting can be found in the facebook page (https://www.facebook.com/pg/perinataloriginsofneuropsychiatricdisorders/photos/?ref=page_internal).

19. Comments of at least three attendants about the Meeting:

a. Selected speaker from abstract submitted: "The POND conference was truly engaging and inspiring. Extremely high-quality speakers and sessions. It has been a great opportunity to hear cutting-edge findings from scientists who are passionate about their work. I enjoyed learning from all of them. The meeting also provided wonderful opportunities (in stunning venues!) to engage with other researchers in the field and to meet with colleagues and friends. I would like to thank the organizers for putting on such a great conference. I am grateful to have been given the opportunity to be a part of it! Congratulations again on this successful meeting, it was a great pleasure meeting you and participating in the conference."

Erica

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b. Selected speaker from abstract submitted: "The POND meeting was a fantastic and extremely valuable experience for me. Thanks to the generous support offered by the ISN, I was able to attend and present my research in an oral symposium, which is a rare opportunity for a young scientist in training. Because of the intimate nature of the meeting, I was able to talk and connect with not just students and postdocs but also with senior scientists, which made the conference an even more valuable experience. I was extremely impressed by the quality, integrity, and innovative nature of



the research that each and every attendee presented, from graduate students through senior professors, spanning impressively from in vitro and in vivo preclinical studies on perinatal manipulations and developing brain circuitry, through clinical and epidemiological research on environmental impact on perinatal development, biomarkers, medications, and more. The meeting was incredibly enriching. I return to my home institution in the U.S. with fresh in-depth knowledge on perinatal experience and neurobiological/ psychiatric outcomes, exciting new ideas for future research, and, perhaps most importantly, with what I believe will be lifelong friendships and collaborations both in the preclinical laboratory and in the clinic. I am incredibly grateful to ISN for facilitating this opportunity, which offset my personal expenditures to travel as I do not have travel funding from my home institution. I am already looking forward to the next POND meeting!"

Chloe

Chloe Jordan , PhD
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c. Attendee, senior researcher: "The conference "Perinatal Origins of Neuropsychiatric Disorders: from Molecular Mechanisms to Therapeutic Perspectives held in Palermo on May 29-31 2019 was a unique opportunity to put together scientific update and educational/training activity. The theme of the conference included topics ranging from effects of prenatal exposure to drugs and insults, to maternal role, neuronal and non-neuronal mechanisms and, potential therapeutic interventions. Except for few keynote speakers, all the presenters were at an early career stage. The scientific level of their research was of timely interest. I was pleased that all this 'young blood' was from different countries, and that the conference was also an opportunity for exchange and networking. I'm looking forward for attending the next, 'Second International', conference!
Congratulations to the organizers!"
Cristiano

Prof Cristiano Chiamulera
Università di Verona, Verona, Italy
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d. Invited speaker: "The first international conference on Perinatal Origins of Neuropsychiatric Disorders was a success and I was very happy to be a part of it. I have attended many meetings throughout my carrier; this one is among the best organized, with the highest scientific content and multi-generational and national mix I have experienced. It was particularly impressive how the young investigators were integrated into the meeting and the high level of research they presented. I am sure many has benefited from meeting the more senior researchers and vice versa! This is how science should be done!"

I would also be happy to tell anybody that your organizational skills are superb and you and Carla should teach how to put a meeting on!

Hope to see you soon again,
All the best,
Eva

Eva E. Redei, MS, PhD
Professor
Departments of Psychiatry and Behavioral Sciences and Physiology
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e. Invited speaker: "It was a great pleasure to attend the Meeting "Perinatal Origins of Neuropsychiatric Disorders: from Molecular Mechanisms to Therapeutic Perspectives" organized by yourself and Carla Cannizzaro in Palermo. The scientific quality of the plenary lectures and presentations was impressive, and the topics covered so many hot areas such as the Glial-immuno activation from the mother to the foetus, the Prenatal exposure to substance of abuse as a risk factor for neuropsychiatric disorders and the Consequences on neurodevelopment of perinatal prescription drugs. The talks covered state of the art research in the field and the meeting was a unique occasion to exchange opinions and discuss science with so many top-level scientists.

I was also impressed by the extensive participation of young researchers, postdoctoral fellows and PhD students. I think that the Data Blitz sessions (Platforms) were very interesting and gave the students the possibility to present their work. They also appreciated a lot the awards received, which was highly motivating for them. I noticed that during the meeting young researchers already established networks, which I think was an enormous added value for the meeting.

I also wish to thank for the wonderful organization, the choice of the prestigious conference room and your wonderful hospitality. I had a chance to talk with several speakers and everybody was impressed.

I really hope that this will be the first of a series of conferences on the same topic and I already assure my presence to the next one!

all the best

Michela

Prof. Michela Matteoli, Humanitas University
Director, Neuro Center, Humanitas Research Hospital
Member of European Molecular Biology Organization
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20. The budget used for each speaker or awarded person must be specified separately:

- **AWARDS:** ALL THE AMOUNT ARE IN USD:

ISN Travel grants

Julieta Aguggia, Cordoba (Argentina): 875
Martin Bustelo Tejada, San Juan (Argentina): 875
Chloe Jordan, Baltimore (USA): 875
Francesca Manuella, Zurich (Switzerland): 875
Andrew Scheyer, Marseille (France): 875
Aranza Wille Bille, Cordoba (Argentina): 875

ISN Best Oral Presentation Awards

Clarissa Catale, Rome (Italy): 750
Claire Thornton, London (UK): 750
Anna Brancato, Palermo (Italy): 750
Samantha Baglot, Calgari (Canada): 750
Florencia Anunziata, Cordoba (Argentina): 750
Salvatore Lecca, Lausanne (Switzerland): 750
Chiara Boscardin, Zurich (Switzerland): 750



- **SPEAKERS:** ALL THE AMOUNT ARE IN USD:

Carolyn Salafia: hotel, 656; transfer 38

Michela Matteoli: hotel, 525; transfer 38

Tania Marcourakis: hotel, 525; transfer 38

Sophie Layé: hotel, 656; transfer 38

Yasmin Hurd: hotel, 394; transfer 38

Ro-Yuh Shen: hotel, 525; transfer 38

Olivier Manzoni: hotel 656, 38

Viviana Trezza: hotel, 262, transfer 38

Guido Mannaioni: hotel, 564; transfer 38

Antonello Bonci: hotel, 423; transfer, 38

Marco Bortolato: hotel, 394; transfer 38

Eva Redei: hotel 656, transfer 38

Omry Koren: hotel, 262; transfer 38

For a total of 6996.