

CURRICULUM VITAE

PERSONAL INFORMATION

Name Stefania Mondello
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smondello@unime.it
Nationality Italian
Date of birth 18/01/1979

EXPERTISE

- Principal areas of expertise
Physician Scientist currently coordinating multidisciplinary laboratories and transitional neuroscience research projects as principal investigator and co-investigator. Research responsibilities include
 - Management and analyses of clinical data from multi-center international studies assessing the utility of biomarkers for diagnosis and management of acute brain injury including traumatic brain injury (TBI) and stroke.
 - Translational research to study brain damage biomarkers in various biofluids (including microdialysate, cerebrospinal fluid [CSF]) and blood from animals (rats) to human.

Internal Medicine Trained with special qualification (PhD) in Critical Care Medicine (University of Messina, Italy) and Biostatistics (MPH, University of Florida, FL, USA)

WORK EXPERIENCE

- Dates (from – to) 2013- Present
- Name and address of employer University of Messina, Department of Biomedical and Dental Sciences and Morphofunctional Imaging, Messina, Italy
Health
Researcher – Senior Assistant Professor
Research focus
Management and analyses of clinical data from clinical and experimental studies assessing the utility of biomarkers for diagnosis and management of acute brain injury including traumatic brain injury (TBI) and stroke
Translational research to study brain damage biomarkers in various biofluids (including microdialysate, cerebrospinal fluid [CSF] and blood) from animals (rats) to human.
Development of a system analysis approach to continuous physiological monitoring data
Analysis of relationships between secondary insults as indicated by continuous physiological monitoring data and brain biomarkers levels in blood and CSF from brain injured patients
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Development of a system analysis approach and statistical methods to assess the relationships between clinical events and data and biomarker levels measured in blood and CSF from clinical subjects

Responsibilities

Clinical Duties in the Division of Critical Care Medicine and Neuro-Intensive Care Unit (NICU)

Writing, editing, and reviewing peer reviewed scientific articles

Writing, editing, and reviewing grants applications

• Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held

2018- Present

Oasi Research Institute - IRCCS – TROINA, Italy
Health

Director of the Biomarker Research and Development Program

• Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held

2016- Present

I.R.C.C.S. Associazione Oasi Maria SS. ONLUS – TROINA, Italy
Health

Researcher

• Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held

2013-Present

University of Florida, Department of Anesthesiology, Division of Anesthesia Critical Care Medicine, Gainesville, Florida, USA
Health

Courtesy Appointment

• Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

2009- 2012

Banyan Biomarkers, Inc., Alachua, Florida, USA
Biotechnology Company

Director of Clinical Research

Research focus

Clinical validation of neurobiomarkers in traumatic brain injury, stroke and other neuropathologies

Cerebral Microdialysis in vitro and in vivo research platforms

Continuous physiological monitoring in traumatic brain injury

Responsibilities

Writing, editing, and reviewing grants applications

Writing, editing, and reviewing peer reviewed scientific articles

Managing and analyzing clinical data from multi-center international sites, including biostatistical data elaboration under SAS environment able to generate analysis data sets, tables, listings, and figures for individual studies.

Building and managing laboratory and clinical databases

Supervising co-investigators and technical staff

• Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

2008- 2012

University of Florida, Department of Anesthesiology, Division of Anesthesia Critical Care Medicine, Gainesville, Florida, USA
Health

Research Fellow

Research focus

Development of a system analysis approach to continuous physiological monitoring data

Analysis of relationships between secondary insults as indicated by continuous physiological monitoring data and brain biomarkers levels in blood and CSF from clinical subjects

Responsibilities

Writing, editing, and reviewing peer reviewed scientific articles

Clinical Observer in the Division of Critical Care Medicine and Neuro-Intensive Care Unit (NICU)

Providing statistical programming support to generate analysis data sets, tables, listings, and figures for individual studies

EDUCATION AND TRAINING

- Dates (from – to) 2009 – 2012
- Name and type of organization providing education and training University of Messina, Messina, Italy and University of Florida, Gainesville, USA
- Principal subjects/occupational skills covered Intensive Care - New Technologies for Continuous Physiological Monitoring in ICU
Thesis Title: ' Neuronal and Glial Markers are Differently Associated with Computed Tomography Findings and Outcome in Patients with Severe Neurotrauma: Insight into the Pathophysiology of Traumatic Brain Injury'
European PhD
ISCED 6
- Title of qualification awarded
- Level in national classification

- Dates (from – to) 2009-2011
- Name and type of organization providing education and training Public Health and Health Professions, Biostatistics, University of Florida, Gainesville, USA
- Principal subjects/occupational skills covered - Epidemiology, Regression Methods, Applied Multivariate Methods
- SAS for Public Health Analysis, Biostatistical Computing Using R
Thesis Title: ' Risk Adjusted Methodology for Predicting Complications Rate at Level I Trauma Center'
MPH, Master of Public Health in Biostatistics
- Title of qualification awarded

- Dates (from – to) 2003-2008
- Name and type of organization providing education and training University of Messina, Messina, Italy
- Principal subjects/occupational skills covered Internal Medicine and Emergency Medicine
Thesis Title: 'New Biomarkers in Traumatic Brain Injury: a Translational Study'
Specialist
- Title of qualification awarded

- Dates (from – to) 2007 – 2008
- Name and type of organization providing education and training The Theological Institute "San Tommaso", The Pontifical Salesian University, Messina, Italy,
- Principal subjects/occupational skills covered Thesis Title: 'Ethical Issues in Intensive Care Unit'
- Title of qualification awarded MBS, Master of Bioethics and Sexology

- Dates (from – to) 1997 – 2003
- Name and type of organization providing education and training University of Messina, School of Medicine, Messina, Italy
- Principal subjects/occupational skills covered Thesis Title: ' Biotherapy in Oncohematology: Thalidomide in the Management of Multiple Myeloma'

- Title of qualification awarded
- Level in national classification

MD, Medical Doctor Degree
ISCED 5

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

1993 – 1997
Classical Gymnasium “F. Maurolico”, Messina, Italy
Classical Studies
BA

LANGUAGES

MOTHER TONGUE
OTHER LANGUAGES

Italian
English

- Reading skills
- Writing skills
 - Verbal skills

C2 - Proficient user
C2 - Proficient user
C2 - Proficient user

ADDITIONAL INFORMATION

COMPUTER SKILLS

Statistical Software: Extensive experience using SAS and R, expert in SPSS and STATA

Operating Systems: Extensive experience using Windows and Apple Macintosh computers

Office Software: Extensive knowledge of Microsoft Office 2007, 2010, 2013 (Word, PowerPoint, Excel, Access), Proficient in Adobe Photoshop CS4, Acrobat and Dreamweaver

Bibliographic Management: Proficiency in EndNote and RefWorks

ADDITIONAL INFORMATION

ACADEMIC HONORS, AWARDS AND SPECIAL RECOGNITIONS

- 2001 International Clerkship Project Scholarship, University of Messina Medical School Messina, Italy
- 2003 National Clerkship Project Scholarship, University of Messina Medical School Messina, Italy
- 2007 Scholarship of the SIMI “Emergency in Internal Medicine” Rome, Italy
- 2009 Travel Grant Neurotrauma 2009. The Second Joint Symposium of the National and International Neurotrauma Societies, 2009 Santa Barbara, CA
- 2010 Recipient of the Premio Award 2010 - “Honoring Italian Women Scientists and Entrepreneurs in America”
- 2010 Career Interview, Nature [Vol. 466]19 August 2010
- 2010 Special Invitation, Italian Health Research Conference – Cernobbio (CO), Italy
- 2010 FESTIVAL DEI GIOVANI TALENTI (Young Italian Talent Fair) – Rome, Italy
- 2011 NEUROLOGY Specialty Award, SCCM Congress, 2011, San Diego, CA, USA
- 2011 Invited Referee of Italian National Research Grant
- 2011 Elected President of Bridges to Italy (Florida chapter)
- 2011 President of the Italian Scientists and Scholars in North America Foundation

- (ISSNAF) (Florida Chapter)
- 2011 Coordinator of Young ISSNAF – Young Investigators Network
 - 2011 AANS Annual Meeting TRAUMA AND CRITICAL CARE SECTION, 2011 Denver, CO, USA. Best Poster
 - 2011 Grant reviewer Italian Ministry of Health, Study Section, May 2011, Rome, Italy Invited as one of ten “Highly Qualified Young Investigator” to conducted grant review for the Italian Ministry of Health, Study Section, May 2011, Rome, Italy
 - 2011 Selected to be included as one of 1000 Curricula Eccellenti, database funded by Marisa Bellisario Foundation collecting CV of Highly Qualified Italian Women
 - 2011 Special Recognition Award EUWIIN, 27 May 2011, Reykjavik, Iceland
 - 2011 Travel Grant. 14th Congress of the European Shock Society, Giardini Naxos (ME), August 31st – September 2nd, 2011, Italy
 - 2011 NEW INVESTIGATOR AWARDS SESSION. 14th Congress of the European Shock Society, Giardini Naxos (ME), August 31st – September 2nd, 2011, Italy
 - 2011 NCS Meeting Travel Grant Award- 9th Annual Meeting, Neurocritical Care Society, September 21-24, 2011, Montréal, QC, Canada
 - 2011 Member of Bridges to Italy's Advisory Board
 - 2011 Research highlighted as 'Highly Accessed' paper on Critical Care
 - 2011 Selected for “Young Brains”, Annual of 150 “Best Italian Young Investigators” who received awards for their research, supported by Consiglio Nazionale delle Ricerche (CNR) and Conferenza dei Rettori delle Università Italiane (CRUI)
 - 2012 Ad Hoc Editor: Biomarkers for Traumatic Brain Injury, ISBN 1849733899
 - 2012 Mention Doctor Europaeus
 - 2012 Independent Expert-Evaluator - “7TH FRAMEWORK PROGRAMME FOR RESEARCH– HEALTH – AREA "BRAIN AND RELATED DISEASES"
 - 2013 Independent Expert-Evaluator - “7TH FRAMEWORK PROGRAMME FOR RESEARCH– HEALTH – AREA "BRAIN AND RELATED DISEASES"
 - 2013 Articles featured in Toxicological Sciences (doi: 10.1093/toxsci/kfs224) on PGP 9.5 antibodies webpage and on the journal cover
 - 2013 Highlighted paper in the section “In Focus” of Neurology
 - 2013 Abstract presented at the Blue Ribbon Highlights Session by Matthew B. Stern
 - 2013 Article featured on www.MDLinx.com
 - 2014 INTS2014 Travel Grant. The 11th Symposium of the International Neurotrauma Society. Budapest, Hungary. 19- 23 March, 2014.
 - 2014 Young Investigator (YI) competition. the 2014 Military Health System Research Symposium (MHSRS), 18-21 Aug 2014, USA
 - 2014 Independent Contractor Agreement on the DoD project titled “A military-relevant model of closed concussive head injury: longitudinal studies characterizing and validating single and repetitive mTBI”
 - 2015 Invited Member of the first TBI Endpoints (TED) Consensus Conference, NIH Campus, 2-3 February, 2015
 - 2016 Scholarship Erasmus Programme+

- 2016 Invited speaker at the States General of Health, Ministry of Health, Rome 28 April, Italy
- 2016 Certified Sentinel of Science Award Recipient. Recognized as one of the top 10 per cent of researchers contributing to the peer review of the field of Medicine.
- 2016 Member, Moody TBI Symposium
- 2017 Recipient of Research and Mobility
- 2017 Member of "Accademia dei Pericolanti"
- 2017 Biostatistical Manager for the I.R.C.C.S. Associazione Oasi Maria SS. ONLUS – TROINA
- 2017 Member, SISMEC WORKING GROUP NEBICE
- 2017 Member of Graduate Faculty PhD Program, "Applied Biology and Experimental Medicine"
- 2018 Invited by the Research Executive Agency (REA) part of the EUROPEAN COMMISSION to serve as Vice Chair for the FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking, part of the Future and Emerging Technologies (FET) programme (HORIZON 2020)
- 2018 Invited opening lecture at the 23rd Annual EMN Congress (Euroacademia Multidisciplinaria Neurotraumatologica)
- 2018 Member of "Global Young Academy (GYA)"
- 2018 Wayne Hening Young Investigator Award
- 2018 Selected to attend the Young Physician Leaders (YPL) programme organized by the InterAcademy Partnership (IAP) for Health
- 2018 Member, Moody TBI Symposium

INVITED PRESENTATIONS (TOTAL 48)

- 2010 Advanced Technology Applications for Combat Casualty Care (ATACCC)
TBI Biomarkers: Diagnosis in the Hands of the Warfighter
St Pete Beach, FL (Aug)
- 2010 Meeting & Award ITWIIN
Biomarkers of brain injury: the potential utility for diagnosis, prognosis and management of TBI patients
Bari, Italy (Jun)
- 2010 Opening Ceremony Bridges to Italy – Italia
The secrets of success of tech startups in USA
Rende (CZ), Italy (Jul)
- 2010 Invited Consulting
DoD, Department of Applied Neurobiology, Division of Psychiatry and Neuroscience, Walter Reed Army Institute of Research
Silver Spring, MD, USA (Nov)
- 2011 40th Critical Care Congress
Microtubule-Associated Protein-2: A New Sensitive and Specific Marker for Traumatic Brain Injury
San Diego, CA (Jan)

- 2011 Department of Anatomy, School of Medicine, Neuroscience Seminar
Different Biomarker Profiles Reveal Potentially Distinct Pathological Mechanisms Contributing To Severe Traumatic Brain Injury
Virginia Commonwealth University, Richmond, VA (Apr)
- 2011 10th International Neurotrauma Symposium
Role of serum biomarkers in individuals in coma or vegetative state after traumatic brain injury
Shanghai, China (29th, Apr)
- 2011 10th International Neurotrauma Symposium
Clinical studies of the utility of serum biomarkers for diagnosis prognosis and management of TBI
Shanghai, China (30th, Apr)
- 2011 6th International Conference on Biochemical Markers for Brain Damage
Chronic sustained elevations of MAP-2 in serum of patients after Traumatic Brain Injury
Lund, Sweden (May)
- 2011 NINDS Workshop on Therapy Development for Diffuse Axonal Injury
What new approaches and tools are available for therapy development for DAI? Biomarkers
Hilton Rockville Hotel, Rockville, MD, (May)
- 2011 The Miami Project to Cure Paralysis, University of Miami Miller School of Medicine, Dr. Dalton Dietrich's Lab meeting
Brain Biomarkers in Microdialysate: Rat Model of Traumatic Brain Injury, with Secondary Hypoxemic Insult
Lois Pope Life Center, Miami, FL, (Jun)
- 2011 XIV Congress of the European Shock Society
Neuronal and Glial Markers in Microdialysate after Traumatic and Hypoxemic Brain Injury in Rats
Taormina, Giardini Naxos, Italy (Sep)
- 2011 American Heart Association. Scientific Sessions 2011
Glial Fibrillary Acidic Protein, a Sensitive and Specific Marker in Serum for the Identification of Intracerebral Hemorrhage in Acute Stroke Patients: Results of Improved Assay Performance
Orange County Convention Center, Orlando, FL (Nov)
- 2011 2nd Annual TBI Workshop
Serum biomarkers and neuroimaging: complimentary approaches to diagnosing traumatic brain injury
Wayne State University, Detroit, MI (Nov)
- 2012 International Conference on Computational Biomedicine
Clinical Studies of the Utility of Multimodal monitoring and Brain Biomarkers in Neurotrauma Patients
University of Florida, Gainesville, FL (Feb)
- 2013 6th Pannonian Symposium on Central Nervous System Injury

- Biomarkers in mild TBI*
University of Pecs, Pecs, HU (Apr)
- 2013 6th MHSRS - The 2013 meeting of the Medical Health Service Research Symposium
Characterization of TBI Models and Evaluation of Efficacy of Nicotinamide, Erythropoietin, and Cyclosporine-A using Serum Biomarkers: Results from Operation Brain Trauma Therapy
Fort Lauderdale, Florida, USA (Aug)
- 2013 12th European Congress of Internal Medicine
Novel Sensitive Assay Improves Diagnostic Accuracy of Serum GFAP for the Identification of Intracerebral Hemorrhage in Acute Stroke Patients
Prague, Czech Republic (Oct)
- 2013 ESICM LIVES 2013, 26th Annual Congress
CSF and Plasma Amyloid- β Temporal Profiles and Relationships with Neurological Status and Mortality after Severe Traumatic Brain Injury: Results of a Pilot Study
Paris, France (Oct)
- 2013 Master I Level, Management dell'Emergenza e delle Maxiemergenze
Novel Brain Injury Biomarkers of Traumatic Brain Injury
Messina, Italy (Nov)
- 2014 INTS 2014 - The 11th Symposium of the International Neurotrauma Society
Characterization of TBI Models and Evaluation of Efficacy of Nicotinamide, Erythropoietin, and Cyclosporine-A using Serum Biomarkers: Results from Operation Brain Trauma Therapy
Budapest, Hungary (Mar)
- 2014 The 4th Annual Traumatic Brain Injury Conference
Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial
Washington, DC USA (Apr)
- 2014 3rd International Workshop on Synaptic Plasticity: from bench to bedside
Sirtuin Expression in Human Gliomas
Milazzo, Italy (June)
- 2014 The 2014 Military Health System Research Symposium (MHSRS)
Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial
Fort Lauderdale, Florida, USA (Aug)
- 2014 Webinar – Cambridge Healthtech Institute.
Correlation of Brain Biomarker Measurements in Plasma and CSF using a Novel Single-Molecule Immunoassay Technology to Study Neurodegenerative Disease
(Dec)
- 2015 Symposium – The Sapienza University of Rome

- Biomarkers of Brain Injury for Diagnosis, Management and Prognosis of TBI Patients*
Rome, Italy (Jun)
- 2015 33rd Annual Symposium of the National Neurotrauma Society
OPERATION BRAIN TRAUMA THERAPY: THE THRILL OF VICTORY AND THE AGONY OF DEFEAT
Santa Fe, New Mexico, USA (Jun)
- 2015 The 2015 Military Health System Research Symposium (MHSRS)
Biomarker profiles support a neuroprotective effect of Levetiracetam in TBI: findings from Operation Brain Trauma Therapy
Fort Lauderdale, Florida, USA (Aug)
- 2015 BMBD Biochemical Markers for Brain Damage
Amyloid- β in CSF and plasma of patients with severe TBI: a pilot study
Lund, Sweden (Sep)
- 2016 INTS 2016 - The 12th Symposium of the International Neurotrauma Society
The Potential Utility Of Brain Injury Biomarker In Pre-clinical Drug Screening By Operation Brain Trauma Therapy
Cape Town, South Africa (Feb)
- 2016 INTS 2016 - The 12th Symposium of the International Neurotrauma Society
Circulating Brain Damage Markers For The Diagnosis And Outcome Prediction Of Traumatic Brain Injuries
Cape Town, South Africa (Feb)
- 2016 States General of Health, Ministry of Health
Novel Biomarkers for Improved Characterization, Disease Tracking and Outcome Prediction in Traumatic Brain Injury
Rome, Italy (Apr)
- 2016 Symposium on Traumatic Brain Injury – Celebrating Professor Ronald L. Hayes
Biomarkers of brain injury – what did we learn from Gainesville?
Pecs, Hungary (Nov)
- 2017 The Traumatic Brain Injury Conference
Circulating Brain Damage Markers for the Diagnosis of Traumatic Brain Injury: the questions you never dared to ask
Washington, DC USA (May)
- 2017 35th Annual National Neurotrauma Symposium (Neurotrauma 2017)
Circulating GFAP Levels to Monitor Therapeutic Response to Glibenclamide in a Rat Model of Cortical Contusion Injury: Findings from Operation Brain Trauma Therapy
Snowbird, UT, USA (Jul)
- 2017 7th Pannonian Symposium on CNS injury
Harmonisation and systematic approach to the sophisticated use of biomarkers in the field of Traumatic Brain Injury

- Pécs, Hungary (Aug)
- 2017 EANS2017
Clinical studies of the utility of blood-based protein biomarker as diagnostic signatures for traumatic brain injury
Venice, Italy (Oct)
- 2017 First Regional Symposium in Neuroethics
Balance between Professional Life and Persona Conviction
Cairo, Egypt (Nov)
- 2018 23rd Annual Euroacademia Multidisciplinaria Neurotraumatologica (EMN) Congress
Opening Lecture "Translational research projects in traumatic brain injury"
Pees, Hungary (May)
- 2018 International RLS Study Group Annual Meeting 2018
Identification of Novel Candidate Biomarkers for RLS by Proteomic Analysis
Baltimore, MD (June)
- 2018 IBRO-ARC – Translational Neuroscience School
*Neuroscience on Metabolism in Mind: African Insights Into the Gut-Brain Axis
Translating Experimental Research into Successful Clinical Trials & Practice -
Lessons Learned from the Operation Brain Trauma Therapy*
Cairo, Egypt (June)
- 2018 IBRO-ARC – Translational Neuroscience School
*Neuroscience on Metabolism in Mind: African Insights Into the Gut-Brain Axis
Novel Biomarkers for neurological disorders*
Cairo, Egypt (June)
- 2018 Moody Project Seminar Series
*Overcoming Translational Barriers in in Traumatic Brain Injury. Can Dreams
Come True?*
Galveston, Texas (Jul)
- 2018 14th Annual meeting of the Japan Neuroscience Society (JNS)
*Blood based analysis of biomarkers for TBI: beliefs and evidence to support
changes in clinical practice*
Kobe, Japan (Jul)
- 2018 International Neurotrauma Society (INTS) - NeuroTrauma 2018
*Moving from Estimates to Clinical Impact: a Systematic Analysis of the Use of
Blood-based Biomarkers in the Field of Traumatic Brain Injury*
Toronto, Canada (Aug)
- 2018 SYMPOSIUM OF THE "INTERNATIONAL REM SLEEP BEHAVIOR STUDY
GROUP (IRBD SG)"
Blood-Based Proteomics and Metabolomics in RBD
Munich, Germany (Sep)
- 2018 XLIX Annual Meeting of the Italian Society of Neurology (SIN)
Blood-Based Proteomics and Metabolomics in RBD

Rome, Italy (Oct)

2018 Neuroscience School and Conference of the International Brain Research Organization Middle East and North Africa (IBRO-MENA) - A PUBLIC HEALTH IMPERATIVE FOR MENA: NEUROSCIENCE & NEUROLOGICAL DISORDERS RESEARCH AND PRACTICE

Translating Experimental TBI Research into Successful Clinical Trials & Practice – Lessons Learned from the Operation Brain Trauma Therapy

Cairo, Egypt (Nov)

GRANT ADVISORY COMMITTEES, REVIEW GROUPS

2011 Italian Ministry of Health (MoH)
Bando ricerca finalizzata/Giovani Ricercatori 2009
(*External Reviewer*)

2011 Italian Ministry of Health (MoH)
Member of Study Session GIOVANI RICERCATORI grants
BANDO GIOVANI RICERCATORI 2009
(*Internal Reviewer*)
Ministry of Health, Rome, Italy (2-4, May)

2012 Italian Ministry of Health (MoH)
Bando ricerca finalizzata/Giovani Ricercatori 2010
(*External Reviewer*)

2012 Italian Ministry of Health (MoH)
Member of a Study Session GIOVANI RICERCATORI grants
BANDO GIOVANI RICERCATORI 2010
(*Internal Reviewer*)
Ministry of Health, Rome, Italy (2-5, May)

2012 EUROPEAN COMMISSION
DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
7TH FRAMEWORK PROGRAMME FOR RESEARCH- HEALTH – AREA
"BRAIN AND RELATED DISEASES"
(*External Reviewer*)

2012 EUROPEAN COMMISSION
DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
7TH FRAMEWORK PROGRAMME FOR RESEARCH- HEALTH – AREA
"BRAIN AND RELATED DISEASES"
Consensus Group meeting
(*Internal Reviewer*)
Brussels, Belgium (15-16, Nov)

2013 EUROPEAN COMMISSION
DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
7TH FRAMEWORK PROGRAMME FOR RESEARCH- HEALTH – AREA
"BRAIN AND RELATED DISEASES"
(*External Reviewer*)

2013 EUROPEAN COMMISSION
DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
7TH FRAMEWORK PROGRAMME FOR RESEARCH- HEALTH – AREA
"BRAIN AND RELATED DISEASES"
Consensus Group meeting

- (*Internal Reviewer*)
Brussels, Belgium (22, Mar)
- 2013 Italian Ministry of Health (MoH)
BANDO RICERCA FINALIZZATA 2011-2012
(EDITOR Peer Review Process)
- 2014 Epilepsy Research UK
(*External Reviewer*)
- 2014 The Swiss National Science Foundation
(*External Reviewer*)
- 2014 National Health & Medical Research Council (NHMRC)
(*External Reviewer*)
- 2014 Università di tor Vergata
(*External Reviewer*)
- 2015 The Swiss National Science Foundation
(*External Reviewer*)
- 2015 The National Institute for Health Research (NIHR), UK
(*External Reviewer*)
- 2015 The American University of Beirut, Lebanon
(*External Reviewer*)
- 2016 The Swiss National Science Foundation
(*External Reviewer*)
- 2016 EUROPEAN COMMISSION
HORIZON 2020
FET OPEN RIA
(*External Reviewer*)
- 2016 Parkinson's UK
(*External Reviewer*)
- 2017 The American University of Beirut, Lebanon
(*External Reviewer*)
- 2017 EUROPEAN COMMISSION
HORIZON 2020
FET OPEN RIA
(*External Reviewer*)
- 2017 The 25th TV3 Marató on Strokes and traumatic spinal cord and brain injury
Fundacio La Marató de TV3
Agency for Health Quality and Assessment of Catalonia (AQuAS)
(*External Reviewer*)
- 2017 ELA International
(*External Reviewer*)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Innovative Medicines Initiative (IMI) - Call 13, Topic 11 Topic 11 - Translational
Safety Biomarker Pipeline (TransBioLine): Enabling development and
implementation of novel safety biomarkers in clinical trials and diagnosis of

- disease.
(*Independent Expert*) (Mar)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Innovative Medicines Initiative (IMI) - Call 13, Topic 11 Topic 11 - Translational Safety Biomarker Pipeline (TransBioLine): Enabling development and implementation of novel safety biomarkers in clinical trials and diagnosis of disease.
Consensus Group meeting
(*Panel Member - Rapporteur*)
Brussels, Belgium (19-20, Mar)
- 2017 Parkinson's UK
(*External Reviewer*)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Innovative Medicines Initiative (IMI) - Call 13, Topic 11 Topic 11 - Translational Safety Biomarker Pipeline (TransBioLine): Enabling development and implementation of novel safety biomarkers in clinical trials and diagnosis of disease.
(*Independent Expert*) (Sep)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Innovative Medicines Initiative (IMI) - Call 13, Topic 11 Topic 11 - Translational Safety Biomarker Pipeline (TransBioLine): Enabling development and implementation of novel safety biomarkers in clinical trials and diagnosis of disease.
Consensus Group meeting
(*Panel Member*)
Brussels, Belgium (27, Sep)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Societal Challenge 1 - RIA Research and Innovation action - Topic: SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities combining mental and non-mental disorders.
(*Independent Expert*) (Nov)
- 2018 EUROPEAN COMMISSION - HORIZON 2020
Societal Challenge 1 - RIA Research and Innovation action - Topic: SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities combining mental and non-mental disorders.
Consensus Group meeting
(*Panel Member - Rapporteur*)
Brussels, Belgium (26-30 Nov)
- 2019 Invited by the Leading Fellows Programme Office to serve as a reviewer for the LEaDing Fellows Postdocs Programme
(*Peer/External Reviewer*)
- 2018 Expert Reviewers of "la Caixa" Banking Foundation's Research calls
(*External Reviewer*)

CONFERENCE PANEL CHAIR

- 2011 10th International Neurotrauma Symposium
Stefania Mondello, Kevin Wang, ShuYuan Yang.

Biomarkers and Novel approaches to Monitoring
Shanghai, China (30, Apr)

- 2012 30th Annual National Neurotrauma Symposium, including the AANS/CNS Section on Neurotrauma and Critical Care
TBI IN MILITARY OPERATIONS
Phoenix, Arizona (23, Jul)
- 2014 11th Symposium of the International Neurotrauma Society
Poster Session, *Assessing and Predicting Outcome*
Budapest, Hungary (Mar)
- 2016 Fostering Female Leadership through Role Models in Research, Company and Business
Round table moderator: The Role Model Effect: Women Leaders in Research
Bari, Italy (14, May)
- 2017 Fostering Female Leadership through Role Models in Research, Company and Business
The Traumatic Brain Injury Conference
Washington, DC USA (May)
- 2017 EANS2017
S. Mondello, G. Pavesi.
Session Title: Oral Presentations
Venice, Italy (Oct)

PATENTS AWARDED

- 2014 Method to Detect, Monitor and Promote Neural Regeneration and Improvement of Cognitive Function in a Subject Suffering from Neural Injury.
US Patent # US 2014/0018299 AI
- 2018 Patent Protection for Novel Biomarkers for Idiopathic REM Sleep Behavior Disorder. US Provisional Patent

CURRENT INTERNATIONAL COLLABORATION

Walter Reed Army Institute of Research

Visiting Scholar (January 20 – February 5, 2015). Responsibilities: Contribution to biomarker and data analysis, collaborations on the preparations of publications, grants and presentations.

Walter Reed Army Institute of Research

Visiting Scholar (10 August - 5 September, 2014). Responsibilities: Contribution to biomarker and data analysis, collaborations on the preparations of publications, grants and presentations.

NEUREN PHARMACEUTICALS

Consultant (12 December 2014 - Present). Responsibilities: Contribution to development of Statistical Analysis Plan, Analysis of final data set, including all biomarker data, Preparation of manuscripts

University of California, Los Angeles campus (“UCLA”)

Research Collaborator (7 January 2015 - Present). Collaborative research activities for the purpose of candidate biomarker panel validation in CSF and serum of severe TBI and serum samples of mild TBI patients and non-trauma control samples.

InTBIR Biomarker Work Group (Member)

Member (March 2016 - Present). InTBIR (International Initiative for Traumatic Brain Injury Research) is a collaborative effort of the European Commission (EC), the Canadian Institutes of Health Research (CIHR) and the National Institutes of Health (NIH). It was set up in October 2011 to advance clinical traumatic brain injury (TBI) research, treatment and care.

Living Systematic Review Network (Member)

Member (September 2016 - Present). The purpose of the Network is to: 1) Share ideas, information and resources; 2) Work on a more practical definition of what an LSR is and the steps involved; and 3) Develop some candidate approaches for testing as part of a suite of Cochrane pilots.

Collaborative European NeuroTrauma Effectiveness Research in TBI (CENTER-TBI) - Research Collaborator

CENTER-TBI is a large European project that aims to improve the care for patients with Traumatic Brain Injury (TBI) by collecting a prospective, contemporary, highly granular, observational dataset of 5400 patients, which will be used for better characterization of TBI and for Comparative Effectiveness Research (CER)

Global Burden of Disease (GBD) collaborator network (Member)

Member (March 2018 - Present). The Global Burden of Disease (GBD) provides a tool to quantify health loss from hundreds of diseases, injuries, and risk factors, so that health systems can be improved and disparities can be eliminated.

International RLS Study Group (IRLSSG) (Member)

Member (June 2018 - Present). International RLS Study Group is a nonprofit organization of professionals committed to advancing basic and clinical research of restless legs syndrome (RLS).

CURRENT GRANT SUPPORT

Italian Ministry of Health

(Mondello)

02/28/2018-02/28/2019

PI

Current Research – Research Line

Identification of Biomarkers for Diagnosis, Characterization and Monitoring of Sleep Disorders using Neuroproteomics, Glicomics and Advanced Bioinformatics/Systems Biology Analyses

Ministry of Education, Universities and Research (Italy) - 01/18/2018

Active Investigator Grant, € 3,000

Italian Ministry of Health

(Mondello)

06/30/2016-06/29/2019

PI

GR-2013-02354960

Novel Biomarkers for Improved Characterization, Disease Tracking and Outcome

Prediction in Traumatic Brain Injury, € 389,957

PENDING GRANT SUPPORT

Italian Ministry of Health

(Mondello)

06/30/2019-06/29/2022

Collaborator

GR-2013-02354960

Multimodal approach in search of prodromal parkinsonism markers of neurodegeneration in idiopathic REM sleep behavior disorder

PAST GRANT SUPPORT

U.S. Army Medical Research and Materiel Command

(Kochanek)

09/30/2014 – 09/30/2018

Consultant

Operation Brain Trauma Therapy- ES

Operation brain trauma therapy (OBTT) is a multicenter, pre-clinical, drug screening and brain injury biomarker development consortium for TBI

Messina University - Research and Mobility 2016

(Minutoli)

01/01/2017 – 12/12/2017

Participant

Role of nuclear receptors on the inflammation and on the blood-testis barrier as a cause of infertility.

to investigate the role of nuclear receptors in an experimental model of varicocele in male PPAR-alfa knockout (KO) mice, TLR4 KO mice and wild type (WT) mice, € 75,000

U.S. Army Medical Research and Materiel Command

(Kochanek)

09/30/2015 – 09/29/2016

Consultant

Operation Brain Trauma Therapy- Year 6

Operation brain trauma therapy (OBTT) is a multicenter, pre-clinical, drug screening and brain injury biomarker development consortium for TBI.

U.S. Army Medical Research and Materiel Command

(Shear)

09/30/2014 – 09/29/2015

Consultant

W81XWH-12-2-0134 (0036863) (401029-2)

A military-relevant model of closed concussive head injury: longitudinal studies characterizing and validating single and repetitive mTBI

U.S. Army Medical Research and Materiel Command

(Kochanek)

9/30/10-9/29/15

Consultant

W81XWH-10-1-0623

Operation Brain Trauma Therapy, \$ 1,300,000

Operation brain trauma therapy (OBTT) is a multicenter, pre-clinical, drug screening and brain injury biomarker development consortium for TBI.

U.S. Army Medical Research Acquisition Activity

(Kamimori)

06/01/2009 - 06/30/2013

10% effort

W81XWH-09-2-0055, \$ 622,644

Brain Injury Biomarkers and Behavioral Characterization of mTBI in Soldiers Following Repeated, Low-level Blast Exposure

The goal of this study is to evaluate the short, moderate and long term effects of repetitive exposure to low level blast overpressure on neurocognitive function and to identify the most efficacious means of identifying mTBI in soldiers.

US Army 9/28/10-9/27/15 Consultant
DoD (Contract) (Hayes)

Pivotal Trial For Biomarkers of Traumatic Brain Injury, \$28,615,559

The objective of this proposal is to evaluate the utility of the Banyan TBI Assay in traumatic brain injury detection and differentiation, using the THUNDERBOLT System or Point of Care / handheld device. The trial will evaluate the utility of the assay for detecting TBI in subjects with known mild, moderate or severe disease status. The assay will be evaluated in a sample population of subjects over the age of 18 who have been referred to the health care provider for closed head injury evaluation.

US Army 4/14/06-7/13/12 Consultant
DoD (US Army BANDITS Program) (Hayes) \$24,371,237
W81XWH-06-1-0517

Biomarkers of Brain Injury: Magnitude, Secondary Insults & Outcome \$24,371,237

The objective of this proposal is to examine relationships between potential TBI biomarkers measurable in cerebral spinal fluid (CSF) and blood with clinical measures of injury severity, occurrence of secondary insult, and outcome to determine if these biomarkers have utility as a blood-based TBI diagnostic and monitoring tool.

R01 4/1/06-4/30/11 Consultant
NIH (Robicsek, Hayes)

Biochemical Markers of TBI (UF) \$ 4,812,523 - Plus \$ 1,520,107

The objective of this proposal is to initiate the first systematic identification and validation of a panel of biochemical markers detectable for TBI in human cerebrospinal fluid (CSF), a biological fluid routinely accessible following severe TBI.

ACADEMIC/ TEACHING EXPERIENCES

Clinical Instructor, University of Messina, Messina, Italy, 2004 to 2008

- Semeiotics and Medical Methodology Course, Third and Fourth Medical Student Course.

Instructor, University of Florida, Gainesville, FL, 2008 to 2013

- Preparation of Presentations, Lectures and participation in all academic activity routinely scheduled in Department of Anesthesiology, Division Critical Care, that includes daily discussions of difficult cases with all of the attending, x-ray rounds, critical care grand rounds and daily change with the clinical fellows, residents and medical students.

Instructor, College of Public Health and Health Professions, University of Florida, Gainesville, FL, 2011

2013-2014

Instructor, University of Messina, Course of study: Child Health Nursing

Course title: Basic Scientific English

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2013-2014

Instructor, University of Messina, Course of study: Child Health Nursing

Course title: Advanced Scientific English

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2013- 2015

Instructor, University of Messina, Course of study: Audioprotetic Science Techniques

Course title: Internal Medicine

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2013-2017

Instructor, University of Messina, Course of study: Midwifery

Course title: Biostatistics

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2013-2017

Instructor, University of Messina, Course of study: Midwifery

Course title: Statistical Methods for Research

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2013- 2016

Instructor, University of Messina, School of Medicine

Course title: Emergency Medicine

- Developed and give lectures, held office hours and conduct exams

2014- Present

Instructor, University of Messina, School of Medicine

Course title: Biostatistics

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2016- Present

Instructor, University of Messina, School of Radiologic Technology

Course title: Biostatistics

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2017- Present

Instructor, University of Messina, School of Dental Medicine

Course title: Biostatistics

- Developed course curriculum, materials, give lectures, held office hours and conduct exams

2017- Present

Member of Graduate Faculty PhD Program, University of Messina

Research Doctorate title: Applied Biology and Experimental Medicine

2017-Present

Instructor, University of Messina

Course of study: Public Health & Preventive Medicine Residency Program

Course title: Biostatistics

2017-Present

Instructor, University of Messina

Course of study: Occupational and environmental medicine Residency Program
Course title: Biostatistics

2018-Present
Instructor, University of Messina
Course of study: Respiratory Medicine Residency Program
Course title: Biostatistics

2018-Present
Instructor, University of Messina
Course of study: Maxillofacial Surgery Residency Program
Course title: Biostatistics

2018- Present
Instructor, University of Messina, School of Medicine&Surgery (English-Program)
Course title: Biostatistics
• Developed course curriculum, materials, give lectures, held office hours and conduct exams

JOURNAL PEER REVIEWER

Acta Neurologica Belgica	2016-Present
Biomarker Insights	2015-Present
Brain Injury	2015-Present
BMC Gastroenterology	2013-Present
BMJ Open	2018-Present
Clinical Chemistry	2010-Present
Clinical Medicine Insights: Intensive Medicine	2015-Present
Concussion	2016-Present
Critical Care	2015-Present
Critical Care Medicine	2009-Present
Disability and Rehabilitation	2019-Present
Electrophoresis	2012-Present
Emergency Medicine	2013-Present
Expert Review of Neurotherapeutics	2015-Present
Expert Review of Proteomics	2012-Present
Frontiers in Neurology- Neurotrauma	2012-Present
Journal of Central Nervous System Disease	2015-Present
Journal of Neurology, Neurosurgery, and Psychiatry	2014-Present
Journal of Neurotrauma	2010-Present
Movement Disorders	2014-Present
Nature Reviews Neurology	2016-Present
Neurobiology of Disease	2012-Present
Neurocritical care	2010-Present
Neurology	2016-Present
Neuroscience Letters	2015-Present
Neurosurgery	2012-Present
New England Journal of Medicine	2017-Present
Pediatric Research	2012-Present
PLOS ONE	2013-Present
Scientific Reports	2013-Present
The International Journal of Neuroscience	2013-Present
The Lancet Neurology	2016-Present

JOURNAL EDITORIAL BOARD

Frontiers in Systems Biology	2011-Present
Editor-in-Chief of the Frontiers Research Topic on “Towards translating research to clinical practice: Novel Strategies for Discovery and Validation of Biomarkers for Brain Injury”	2011-2013
Biomarker Research	2012-Present
Expert Review of Proteomics	2015-Present
Scientific Reports: Nature Publishing Group	2015-Present
Journal of Intensive Care (International Board Member)	2015-Present
Guest editor of the Special Issue on Traumatic Brain Injury “Neuropathological, Cellular and Behavioral Mechanisms in Traumatic Brain injury: Insights on different Animal Models of Neurotrauma”. Behavioural Brain Research Volume 340, Pages 1-212 (15 March 2018). Edited by Kevin Wang, Stefania Mondello and Firas Kobeissy.	2015-2018
Editor-in-Chief of the Research Topic “Developing Successful Neuroprotective Treatments for TBI: Translational Approaches, Novel Directions, Opportunities and Challenges” in Frontiers in Neurology-Neurotrauma	2017-2018
Associate Editor of Frontiers in Neurology-Neurotrauma	2017-Present
Guest editor - Research Topic “Biomarkers in Neurology” in Frontiers in Neurology-Neurotrauma	2017-Present
Associate Editor of Frontiers for the Specialty Section Neurodegeneration	2019-Present

JOURNAL EDITORIAL BOARD- Statistical Editor

Frontiers in Pharmacology	2015-Present
Sleep	2017-Present

ADDED QUALIFICATION

2007	Diploma of Clinical Ultrasonography Italian Society of Medicine and Biology Ultrasonography (SIUMB)
2007	Basic and Advanced Life Support Italian Resuscitation Council (IRC) n°21616
2017	StatisticAlps 2017, 7th Edition: Biomarkers & Classifiers for Diagnostic and Therapeutic Research
2017	Biostatistical Manager for the I.R.C.C.S. Associazione Oasi Maria SS. ONLUS – TROINA
2017	Biostatistician and member of the local Institutional Review Board (IRB)
2018	Biostatistician and member of the Institutional Animal Care and Use Committee (IACUC)

BOOKS EDITED

1. Towards translating research to clinical practice: Novel Strategies for Discovery and Validation of Biomarkers for Brain Injury. Editors: **Mondello S**, Buki A, Tortella FC and Wang KW. Eds: Frontiers in Neurology – Neurotrauma. Specialty Chief Editor Dr. Marten Risling. Publisher: Frontiers Media SA. ISBN: 978-2-88919-391-2 2015. http://www.frontiersin.org/books/Towards_translating_research_to_clinical_practice

2. Injury Models of the Central Nervous system. Eds. Dixon, Kobeissy, Hayes and **Mondello**, 2016 (In Press). Series Title: Methods in Molecular Biology. Springer Publishing Group, ISBN 978-1-4939-3816-2. <http://www.springer.com/us/book/9781493938148>

CLINICAL AFFILIATIONS

Messina University Hospital (Italy)
Shands HealthCare, affiliated with the University of Florida
Oasi Institute IRCCS, Troina, Italy

SPECIAL EXPERIENCE

- | | |
|------|--|
| 2010 | Society of Critical Care Medicine (SCCM)
40th Critical Care Congress, Society of Critical Care Medicine's
(Abstract Reviewer) |
| 2011 | Society of Critical Care Medicine (SCCM)
41st Critical Care Congress, Society of Critical Care Medicine's
(Abstract Reviewer) |
| 2012 | Young European Assessor - External Advisor/Consultant AIFA |
| 2012 | External Advisor/Consultant, Reviewer Guidelines, Italian Ministry of Health
(MoH) |
| 2013 | ISSNAF Award for Young Investigators (Abstract Reviewer) |
| 2013 | Consultant: Brain Trauma, Neuroprotection and Neurorestoration, Walter
Reed Army Institute of Research, Department of Defence (DoD) |
| 2013 | Consultant: EnCor Biotechnology, Inc., Gainesville, FL. |
| 2013 | Consultant: NNZ-2566 Clinical Trial, Severe Traumatic Brain Injury, Neuren
Pharmaceuticals |
| 2013 | Consultant: Atlantic Biomarkers, LLC, Gainesville, FL |
| 2013 | Society of Critical Care Medicine (SCCM)
43rd Critical Care Congress, Society of Critical Care Medicine's
(Abstract Reviewer) |
| 2014 | Military Health System Research Symposium (MHSRS).
Poster Judging.
18-21 August 2015 |
| 2014 | Society of Critical Care Medicine (SCCM)
45th Critical Care Congress, Society of Critical Care Medicine's
(Abstract Reviewer) |
| 2015 | Military Health System Research Symposium (MHSRS).
Poster Judging.
17-20 August 2015 |
| 2017 | National Neurotrauma Society (NNS) Symposium 2017
(Abstract Reviewer) |
| 2017 | EUWIIN International Conference - 6th Bi-Annual European & International
Women Inventors, Innovators & Entrepreneurs Awards |

(Member of the Judging Panel and of the GWIIN advisory Board - Judging Facilitator)

- 2018 The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care (NeuroTrauma 2018)
(Abstract Reviewer)
- 2018 Society of Critical Care Medicine (SCCM)
49th Critical Care Congress, Society of Critical Care Medicine's
(Abstract Reviewer)
- 2018 Selected to attend the IAP for Health Young Physician Leaders programme and the World Health Summit
- 2018 Invited member of PhD Thesis Committee - *Opponent of Dissertation Thesis*-Kosice, Slovakia
- 2018 Peer review mentor for the Publons Academy -

PUBLICATIONS

JOURNAL ARTICLES (TOTAL 140)

Mondello S*, Buemi M, Mazzon E, Aloisi C. Lymphocytic vasculitis associated with icodextrin. *Perit Dial Int*, 2007 Nov-Dec; 27(6):712-5.

Caccamo C, Nostro L, Giorgianni G, **Mondello S**, Crascì E, Frisina N, Buemi M. Behavior of vascular endothelial growth factor and erythropoietin throughout the menstrual cycle in healthy women. *J Reprod Med*. 2007 Nov; 52 (11):1035-9.

Mondello S*, Fodale V, Cannavò S, Aloisi C, Almoto B, Buemi M, Santamaria LB. Hypophosphatemia as unusual cause of ARDS in Cushing's syndrome secondary to ectopic CRH production. A case report. *ScientificWorldJournal*. 2008 Feb 6; 8:13.

Raimondo G, Navarra G, **Mondello S**, Costantino L, Colloredo G, Cucinotta E, Di Vita G, Scisca C, Squadrito G, Pollicino T. Occult hepatitis B virus in liver tissue of individuals without hepatic disease. *J Hepatol*. 2008 May;48(5):743-6.

Fodale V, **Mondello S**, Aloisi C, Schifilliti D, Santamaria L. Genotoxic effects of anesthetic agents. *Expert Opin Drug Saf*. 2008 Jul; 7(4):447-58. Review.

Mondello S*, Mazzon E, Di Paola R, Crisafulli C, Italiano D, Buemi M, Aloisi C, Cuzzocrea S. Erythropoietin suppresses peritoneal fibrosis in rat experimental model. *Eur J Pharmacol*. 2009 Feb 14; 604(1-3):138-49.

Mondello S*, Mazzon E, Paola RD, Crisafulli C, Mondello P, Buemi M, Aloisi C, Cuzzocrea S. Thalidomide suppresses sclerosing encapsulating peritonitis in rats experimental model. *Shock*. 2009 Sep;32(3):332-9.

Cerrito M, **Mondello S**, Oreto G. Qual è la causa della bradicardia? *Cardiologia Ambulatoriale*, 2008; 3:151-155.

- Buemi M, Fazio MR, Bolignano D, Coppolino G, Donato V, Lacquaniti A, **Mondello S**, Buemi A, Allegra A. Renal complications in oncohematologic patients. *J Investig Med*. 2009 Dec; 57(8):892-901.
- Mondello S***, Italiano D, Giacobbe MS, Mondello P, Trimarchi G, Aloisi C, Bramanti P, Spina E. Glutamine-supplemented total parenteral nutrition improves immunological status in anorectic patients. *Nutrition*. 2010 Jun;26(6):677-81.
- Mondello S***, Robicsek S, Gabrielli A, Brophy G, Papa L, Tepas Iii J, Robertson C, Buki A, Scharf D, Jixiang M, Akinyi L, Muller U, Wang KK, Hayes RL. alphaII-Spectrin Breakdown Products (SBDPs): Diagnosis and Outcome in Severe Traumatic Brain Injury Patients. *J Neurotrauma*. 2010 Jul;27(7):1203-13.
- Mondello S***, Galuppo M, Mazzon E, Domenico I, Mondello P, Carmela A, Cuzzocrea S. Glutamine treatment attenuates the development of ischaemia/reperfusion injury of the gut. *Eur J Pharmacol*. 2010 Sep 25;643(2-3):304-15.
- Mondello S***, Muller U, Jeromin A, Streeter J, Hayes RL, Wang K.K.. Blood-based Diagnostics of Traumatic Brain Injury. *Expert Rev Mol Diagn*. 2011 Jan;11(1):65-78. Review.
- Brophy G, **Mondello S**, Papa L, Robicsek S, Gabrielli A, Tepas Iii J, Buki A, Robertson C, Tortella FC, Wang KK. Biokinetic Analysis of Ubiquitin C-Terminal Hydrolase-L1 (UCH-L1) in Severe Traumatic Brain Injury Patient Biofluids. *J Neurotrauma*. 2011 Jun; 28(6):861-70.
- Mondello S***, Galuppo M, Mazzon E, Italiano D, Mondello P, Aloisi C, Cuzzocrea S. Glutamine treatment attenuates the development of organ injury induced by zymosan administration in mice. *Eur J Pharmacol*. 2011 May 1;658(1):28-40. Epub 2011 Feb 22.
- Esposito E, **Mondello S**, Di Paola R, Mazzon E, Italiano D, Paterniti I, Mondello P, Aloisi C, Cuzzocrea S. Glutamine contributes to ameliorate inflammation after renal ischemia/reperfusion injury in rats. *Naunyn Schmiedebergs Arch Pharmacol*. 2011 May;383(5):493-508.
- Schifilliti D, **Mondello S**, D'Arrigo MG, Chillè G, Fodale V. Genotoxic effects of anesthetic agents: an update. *Expert Opin Drug Saf*. 2011 Nov;10(6):891-9.
- Hayes RL, **Mondello S***. The Future of Simple Blood Based Tests to Diagnose Mild TBI. *International Neurotrauma Letter (IBIA)*, Issue 02 2011. <http://www.internationalbrain.org/?q=node/162>
- Mondello S***, Papa L, Buki A, Bullock R, Czeiter E, Tortella F, Wang KK, Hayes RL. Neuronal and Glial Markers are differently associated with Computed Tomography Findings and Outcome in patients with Severe Traumatic Brain Injury: a Case Control Study. *Crit Care*. 2011 Jun 24;15(3):R156.

- Berger R, Houle JF, Hayes RL, Wang KK, **Mondello S**, Bell MJ. Translating Biomarker Research to Clinical Care: Applications and Issues for Rehabilomics. *PMR*. 2011 Jun;3(6 Suppl):S31-8.
- Hayes RL, **Mondello S**, Wang K. Glial fibrillary acidic protein: A promising biomarker in pediatric brain injury. *Pediatr Crit Care Med*. 2011 Sep;12(5):603-4.
- Ahmad A, **Mondello S**, Di Paola R, Mazzon E, Esposito E, Catania MA, Italiano D, Mondello P, Aloisi C, Cuzzocrea S. Protective effect of apocynin, a NADPH-oxidase inhibitor, against contrast-induced nephropathy in the diabetic rats: A comparison with n-acetylcysteine. *Eur J Pharmacol*. 2012 Jan 15;674(2-3):397-406.
- Zhang Z, **Mondello S**, Kobeissy F, Rubenstein R, Streeter J, Hayes RL, Wang KK. Protein biomarkers for traumatic and ischemic brain injury: from Bench to Bedside. *Translational Stroke Research*. 2011;2(4):455-462. Review.
- ***Mondello S**. Angiotensin receptor antagonists: A potential neuroprotective strategy after brain trauma. *Crit Care Med*. 2012 Mar;40(3):1023-4.
- ***Mondello S**, Jeromin A, Buki A, Bullock R, Czeiter E, Kovacs N, Barzo P, Schmid K, Tortella FC, Wang KK, Hayes RL. Glial Neuronal Ratio (GNR): a Novel Index for Differentiating Injury Type in Patients with Severe Traumatic Brain Injury. *J Neurotrauma*. 2012 Apr 10;29(6):1096-104.
- Papa L, Lewis LM, Falk JL, Zhang Z, Silvestri S, Giordano P, Brophy GM, Demery JA, Dixit NK, Ferguson I, Liu MC, Mo J, Akinyi L, Schmid K, **Mondello S**, Robertson CS, Tortella FC, Hayes RL, Wang KK. Elevated Levels of Serum Glial Fibrillary Acidic Protein Breakdown Products in Mild and Moderate Traumatic Brain Injury Are Associated With Intracranial Lesions and Neurosurgical Intervention. *Ann Emerg Med*. 2012 Jun;59(6):471-83.
- ***Mondello S**, Akinyi, L, Buki, A, Robicsek, S, Gabrielli, A, Tepas, J, Papa, L, Brophy, G, Tortella, FC, Hayes, RL, Wang, KK Clinical Utility of Serum Levels of Ubiquitin C-Terminal Hydrolase as a Biomarker for Severe Traumatic Brain Injury. *Neurosurgery*. 2012 Mar;70(3):666-675.
- Czeiter E, **Mondello S**, Kovacs N, Sandor J, Gabrielli A, Schmid K, Tortella FC, Wang KK, Hayes RL, Barzo P, Ezer E, Doczi T, Buki A. Brain injury biomarkers may improve the predictive power of the IMPACT outcome calculator. 2012 Jun 10;29(9):1770-8
- Papa L, Lewis LM, Silvestri S, Falk JL, Giordano P, Brophy GM, Demery JA, Liu MC, Mo J, Akinyi L, **Mondello S**, Schmid K, Robertson CS, Tortella FC, Hayes RL, Wang KK. Serum levels of ubiquitin C-terminal hydrolase distinguish mild traumatic brain injury from trauma controls and are elevated in mild and moderate

traumatic brain injury patients with intracranial lesions and neurosurgical intervention. *Journal of Trauma and Acute Care Surgery*. 72(5):1335-1344, May 2012.

***Mondello S**, Gabrielli A, Catani S, D'Ippolito M, Jeromin A, Ciaramella A, Bossù P, Schmid K, Tortella FC, Wang KK, Hayes RL, Formisano R. Increased Levels of Serum MAP-2 at 6-months Correlate with Improved Outcome in Survivors of Severe Traumatic Brain Injury. *Brain Inj*. 2012;26(13-14):1629-35. doi: 10.3109/02699052.2012.700083.

Glushakova O, Jeromin A, Martinez J, Johnson D, Denslow N, Streeter J, Hayes R, **Mondello S***. CSF Protein Biomarker Panel for Assessment of Neurotoxicity Induced by Kainic Acid in Rats. *Toxicol Sci*. 2012 Nov;130(1):158-67. doi: 10.1093/toxsci/kfs224. Epub 2012 Jul 12.

Calabrò RS, Italiano D, Ferrara D, **Mondello S**, Conti-Nibaldi V, Salviera C, Bramanti P. The Hypothalamic-Neurohypophyseal System: Current and Future Treatment of Vasopressin and Oxytocin Related Disorders. *Recent Pat Endocr Metab Immune Drug Discov*. 2012 Sep 1;6(3):235-50.

***Mondello S**, Palmio J, Streeter J, Hayes RL, Peltola J, Jeromin A. Ubiquitin Carboxy-Terminal Hydrolase L1 (UCH-L1) is increased in cerebrospinal fluid and plasma of patients after epileptic seizure. *BMC Neurol*. 2012 Aug 29;12(1):85.

Raad M, Tal T, Gul R, **Mondello S**, Zhang Z, Boustany RM, Kobaissy F. Neuroproteomics approach & neurosystems biology analysis: ROCK inhibitors as promising therapeutic targets in neurodegeneration & neurotrauma. *Electrophoresis*. 2012 Dec; 33(24):3659-68. doi: 10.1002/elps.201200470.

Alawieh A, Zaraket FA, Li JL, **Mondello S**, Nokkari A, Razafsha M, Fadlallah B, Boustany RM, Kobaissy FH. Systems biology, bioinformatics, and biomarkers in neuropsychiatry. *Front Neurosci*. 2012;6:187. doi: 10.3389/fnins.2012.00187.

Kobaissy F, Alawieh A, **Mondello S**, Boustany RM, Gold MS. Biomarkers in psychiatry: how close are we? *Front Psychiatry*. 2012;3:114. doi: 10.3389/fpsy.2012.00114.

Constantinescu R, **Mondello S***. Cerebrospinal fluid biomarker candidates for parkinsonian disorders. *Front Neurol*. 2012;3:187. doi: 10.3389/fneur.2012.00187.

Yokobori S, Gajavelli S, **Mondello S**, Mo-Seaney J, Bramlett HM, Dietrich WD, Bullock MR. Neuroprotective effect of

preoperatively induced mild hypothermia as determined by biomarkers and histopathological estimation in a rat subdural hematoma decompression model. *J Neurosurg.* 2013 Feb;118(2):370-80. doi: 10.3171/2012.10.JNS12725.

Calabrò RS, Bramanti P, Digangi G, **Mondello S**, Italiano D. Psychogenic Itch Responding to Topiramate. *Psychosomatics.* 2013 May-Jun;54(3):297-300

Zoltewicz JS, **Mondello S**, Yang B, Newsom KJ, Kobeissy FH, Yao C, Lu XC, Dave JR, Shear DA, Schmid K, Rivera V, Cram T, Seaney J, Zhang Z, Wang KK, Hayes RL, Tortella FC. Biomarkers Track Damage Following Graded Injury Severity in a Rat Model of Penetrating Brain Injury. *J Neurotrauma.* 2013 Jul 1;30(13):1161-9. doi: 10.1089/neu.2012.2762.

Razafsha M, Behforuzi H, Harati H, Wafai RA, Khaku A, **Mondello S**, Gold MS, Kobeissy FH. An updated overview of animal models in neuropsychiatry. *Neuroscience.* 2013 Mar 7;240C:204-218. doi: 10.1016/j.neuroscience.2013.02.045

***Mondello S**, Buki A, Italiano D, Jeromin A. α -Synuclein in CSF of patients with severe traumatic brain injury. *Neurology.* 2013 Apr 30;80(18):1662-8. doi: 10.1212/WNL.0b013e3182904d43. Epub 2013 Apr 3.

Lacquaniti A, Chirico V, **Mondello S**, Buemi A, Lupica R, Fazio MR, Buemi M, Aloisi C. Neutrophil gelatinase-associated lipocalin in peritoneal dialysis reflects status of peritoneum. *J Nephrol.* 2013 Nov-Dec;26(6):1151-9. doi: 10.5301/jn.5000271.

Yokobori S, Bullock R, Gajavelli S, Burks S, **Mondello S**, Mo J, Wang KK, Hayes RL, Bramlett H, Dietrich D. Preoperative-induced mild hypothermia attenuates neuronal damage in a rat subdural hematoma model. *Acta Neurochir Suppl.* 2013;118:77-81. doi: 10.1007/978-3-7091-1434-6_13.

Ren C, Zoltewicz S, Guingab-Cagmat J, Anagli J, Gao M, Hafeez A, Li N, Cao J, Geng X, Kobeissy F, **Mondello S**, Larner SF, Hayes RL, Ji X, Ding Y. Different Expression of ubiquitin C-terminal hydrolase-L1 and α II-spectrin in Ischemic and Hemorrhagic Stroke: Potential Biomarkers in Diagnosis. *Brain Res.* 2013 Dec 2;1540:84-91. doi: 10.1016/j.brainres.2013.09.051.

Kou Z, Gattu R, Kobeissy F, Welch RD, O'Neil BJ, Woodard JL, Ayaz SI, Kulek A, Kas-Shamoun R, Mika V, Zuk C, Tomasello F, **Mondello S***. Combining Biochemical and Imaging Markers to Improve Diagnosis and Characterization of Mild Traumatic Brain Injury in the Acute Setting: Results from a Pilot Study. *PLoS*

One. 2013 Nov 19;8(11):e80296. doi:
10.1371/journal.pone.0080296.

Kobeissy FH, **Mondello S***, Tumer N, Toklu HZ, Whidden MA, Kirichenko N, Zhang Z, Prima V, Yassin W, Svetlov S Wang KK. Assessing Neuro-Systemic & Behavioral Components in the Pathophysiology of Blast-Related Brain Injury. *Front Neurol*. 2013 Nov 21;4:186.

Kobeissy FH, Gulbakan B, Alawieh A, Karam P, Zhang Z, Guingab-Cagmat JD, **Mondello S**, Tan W, Anagli J, Wang K. Post-Genomics Nanotechnology Is Gaining Momentum: Nanoproteomics and Applications in Life Sciences. *OMICS*. 2014 Feb;18(2):111-31. doi: 10.1089/omi.2013.0074.

***Mondello S**, Constantinescu R, Zetterberg H, Andreasson U, Holmberg B, Jeromin A. CSF α -synuclein and UCH-L1 levels in Parkinson's disease and atypical parkinsonian disorders. *Parkinsonism Relat Disord*. 2014 Apr;20(4):382-7. doi: 10.1016/j.parkreldis.2014.01.011.

Ren C, Guingab-Cagmat J, Kobeissy F, Zoltewicz S, **Mondello S**, Gao M, Hafeez A, Li N, Geng X, Larner SF, Anagli J, Hayes RL, Ji X, Ding Y. A NeuroProteomic and Systems Biology Analysis of Rat Brain Post Intracerebral Hemorrhagic Stroke. *Brain Res Bull*. 2014 Mar;102:46-56. doi: 10.1016/j.brainresbull.2014.02.005.

Zhang Z, Zoltewicz JS, **Mondello S**, Newsom KJ, Yang Z, Yang B, Kobeissy F, Guingab J, Glushakova O, Robicsek S, Heaton S, Buki A, Hannay J, Gold MS, Rubenstein R, Lu XC, Dave JR, Schmid K, Tortella F, Robertson CS, Wang KK. Human Traumatic Brain Injury Induces Autoantibody Response against Glial Fibrillary Acidic Protein and Its Breakdown Products. *PLoS One*. 2014 Mar 25;9(3):e92698. doi: 10.1371/journal.pone.0092698.

***Mondello S**, Schmid K, Berger RP, Kobeissy F, Italiano D, Jeromin A, Hayes RL, Tortella FC, Buki A. The Challenge of Mild Traumatic Brain Injury: Role of Biochemical Markers in Diagnosis of Brain Damage. *Med Res Rev*. 2014 May;34(3):503-31. doi: 10.1002/med.21295.

Italiano D, Bramanti P, Milioti D, **Mondello S**, Calabro RS. Ketotifen-induced nocturnal bruxism. *Eur J Pediatr* 2014 Dec;173(12):1585-6.

Fodale V, D'Arrigo MG, Triolo S, **Mondello S**, La Torre D. Anesthetic Techniques and Cancer Recurrence after Surgery.

Mondello P, Pitini V, Arrigo C, **Mondello S**, Mian M, Altavilla G. Necrotizing fasciitis as a rare complication of osteonecrosis of the jaw in a patient with multiple myeloma treated with lenalidomide: case report and review of the literature. Springerplus. 2014 Mar 5;3:123. doi: 10.1186/2193-1801-3-123. eCollection 2014.

Italiano D, Ferlazzo E, Gasparini S, Spina E, Mondello S, Labate A, Gambardella A, Aguglia U. Generalized versus partial reflex seizures: A review. Seizure. 2014 Aug;23(7):512-520. doi: 10.1016/j.seizure.2014.03.014.

Barresi V, Branca G, Ieni A, Reggiani Bonetti L, Baron L, **Mondello S**, Tuccari G. Poorly differentiated clusters (PDCs) as a novel histological predictor of nodal metastases in pT1 colorectal cancer. Virchows Arch. 2014 Jun;464(6):655-62. doi: 10.1007/s00428-014-1580-z.

***Mondello S**, Cantrell A, Italiano D, Fodale V, Mondello P, Ang D. Complications of trauma patients admitted to the ICU in level I academic trauma centers in the United States. Biomed Res Int. 2014;2014:473419. doi: 10.1155/2014/473419.

Iati G, Pontoriero A, **Mondello S**, Brogna A, Di Pasquale A, Ielo I, Potami A, Messina G, De Renzis C, Pergolizzi S. Three-dimensional treatment planning for vaginal cuff brachytherapy: Dosimetric effects on organs at risk according to patients position. Brachytherapy. 2014 Nov-Dec;13(6):568-71

***Mondello S**, Tortella FC. Brain Injury Markers: Where are We? Front Neurol. 2014 Aug 4;5:145. doi: 10.3389/fneur.2014.00145

Raad M, Nohra E, Chams N, Itani M, Talih F, **Mondello S**, Kobaissy F. Autoantibodies in traumatic brain injury and central nervous system trauma. Neuroscience. 2014 Dec 5;281:16-23.

***Mondello S**, Buki A, Barzo P, Randall J, Provuncher G, Hanlon D, Wilson D, Kobeissy F, Jeromin A. CSF and Plasma Amyloid- β Temporal Profiles and Relationships with Neurological Status and Mortality after Severe Traumatic Brain Injury. Sci Rep. 2014 Oct 10;4:6446. doi: 10.1038/srep06446. PMID: 25300247

Pich EM, Jeromin A, Frisoni GB, Hill D, Lockhart A, Schmidt ME, Turner MR, **Mondello S**, Potter ZW. Imaging as a biomarker in drug discovery for Alzheimer's disease: is MRI a suitable

technology? *Alzheimer's Research & Therapy* 2014 Jul 30;6(4):51.

Mondello P, Lacquaniti A, **Mondello S**, Bolignano D, Pitini V, Aloisi C, Buemi M. Emerging markers of cachexia predict survival in cancer patients. *BMC Cancer*. 2014 Nov 16;14(1):828.

Mouhieddine TH, Itani MM, Nokkari A, Ren C, Daoud G, Zeidan A, **Mondello S**, Kobeissy FH. Nanotheragnostic applications for ischemic and hemorrhagic strokes: improved delivery for a better prognosis. *Curr Neurol Neurosci Rep*. 2015 Jan;15(1):505. doi: 10.1007/s11910-014-0505-1.

Mondello P, Mian M, Aloisi C, Famà F, **Mondello S**, Pitini V. Cancer Cachexia Syndrome: Pathogenesis, Diagnosis, and New Therapeutic Options. *Nutr Cancer*. 2015 Jan;67(1):12-26. doi: 10.1080/01635581.2015.976318

Barresi V, **Mondello S**, Branca G, Rajan TS, Vitarelli E, Tuccari G. p-CREB expression in human gliomas: potential use in the differential diagnosis between astrocytoma and oligodendroglioma. *Hum Pathol*. 2015 Feb;46(2):231-8. doi: 10.1016/j.humpath.2014.10.011.

Montagnese F, Barca E, Musumeci O, **Mondello S**, Migliorato A, Ciranni A, Rodolico C, De Filippi P, Danesino C, Toscano A. Clinical and molecular aspects of 30 patients with late-onset Pompe disease (LOPD): unusual features and response to treatment. *J Neurol*. 2015;262(4):968-78.

Huang XJ, Glushakova O, **Mondello S**, Van KC, Hayes RL, Lyeth BG. Acute Temporal Profiles of serum levels of UCH-L1 and GFAP and Relationships to Neuronal and Astroglial Pathology Following Traumatic Brain Injury in Rats. *J Neurotrauma*. 2015 Aug 15;32(16):1179-89.

Alawieh A, **Mondello S***, Kobeissy F, Shibbani K, Bassim M. Proteomics studies in inner ear disorders: pathophysiology and biomarkers. *Expert Rev Proteomics*. 2015 Apr;12(2):185-96. doi: 10.1586/14789450.2015.1024228.

Nokkari A, Mouhieddine TH, Itani MM, Abou-Kheir W, Daoud G, Zhu R, Meshref Y, Soueid J, Al Hariri M, **Mondello S**, Jaffa AA, Kobeissy F. Characterization of the Kallikrein-Kinin System Post Chemical Neuronal Injury: An In Vitro Biochemical and Neuroproteomics Assessment. *PLoS One*. 2015 Jun 5;10(6):e0128601. doi: 10.1371/journal.pone.0128601

- Jeromin A, Maas AI, Buki A, **Mondello S***. Developing a molecular taxonomy for traumatic brain injury: a perspective to enable the development of diagnostics and therapeutics. *Biomark Med.* 2015 Jul;9(7):619-21. doi: 10.2217/bmm.15.22
- Kobeissy FH, Liu MC, Yang Z, Zhang Z, Zheng W, Glushakova O, **Mondello S**, Anagli J, Hayes RL, Wang KK. Degradation of β II-Spectrin Protein by Calpain-2 and Caspase-3 Under Neurotoxic and Traumatic Brain Injury Conditions. *Mol Neurobiol.* 2015 Aug;52(1):696-709. doi: 10.1007/s12035-014-8898-z.
- Gaeta M, Musumeci O, **Mondello S**, Ruggeri P, Montagnese F, Cucinotta M, Vinci S, Milardi D, Toscano A. Clinical and pathophysiological clues of respiratory dysfunction in late-onset Pompe disease: New insights from a comparative study by MRI and respiratory function assessment. *Neuromuscul Disord.* 2015 Nov;25(11):852-8. doi: 10.1016/j.nmd.2015.09.003.
- K. Zibara, A. El-Zein, M. El-Sayyad, **S. Mondello**, R. Deane, N. Kassem. Thyroxin transfer from cerebrospinal fluid into choroid plexus and brain is affected by brefeldin A, low sodium, BCH, and phloretin, in Ventriculo-Cisternal perfused rabbit. *Front Cell Dev Biol.* 2015 Sep 29;3:60.
- Yokobori S, Zhang Z, Moghieb A, **Mondello S**, Gajavelli S, Dietrich WD, Bramlett H, Hayes RL, Wang M, Wang KK, Bullock MR. Acute diagnostic biomarkers for spinal cord injury: review of the literature and preliminary research report. *World Neurosurg.* 2015 May;83(5):867-78.
- Fawaz CN, Makki IS, Kazan JM, Gebara NY, Andary FS, Itani MM, El-Sayyed M, Zeidan A, Quartarone A, Darwish H, **Mondello S.*** Neuroproteomics and microRNAs studies in multiple sclerosis: transforming research and clinical knowledge in biomarker research. *Expert Rev Proteomics.* 2015 Dec;12(6):637-50.
- Musumeci O, la Marca G, Spada M, **Mondello S**, Danesino C, Comi GP, Pegoraro E, Antonini G, Marrosu G, Liguori R, Morandi L, Moggio M, Massa R, Ravaglia S, Di Muzio A, Filosto M, Tonin P, Di Iorio G, Servidei S, Siciliano G, Angelini C, Mongini T, Toscano A; Italian GSD II group. LOPED study: looking for an early diagnosis in a late-onset Pompe disease high-risk population. *J Neurol Neurosurg Psychiatry.* 2016 Jan;87(1):5-11. doi: 10.1136/jnnp-2014-310164.
- Pontoriero A, Iati G, **Mondello S**, Midili F, Siragusa C, Brogna A, Ielo I, Anastasi G, Magno C, Pergolizzi S, De Renzis C. High-Dose Robotic Stereotactic Body Radiotherapy in the Treatment of Patients With Prostate Cancer: Preliminary Results in 26

Patients. Technol Cancer Res Treat. Technol Cancer Res Treat. 2016 Feb;15(1):179-85.

Kochanek PM, Bramlett HM, Dixon CE, Shear DA, Dietrich WD 3rd, Schmid K, **Mondello S**, Wang KK, Hayes RL, Povlishock J, Tortella St FC. Operation Brain Trauma Therapy: Approach to Modeling, Therapy Evaluation, Drug Selection, and Biomarker Assessments, for a Multi-Center Pre-Clinical Drug Screening Consortium for Acute Therapies in Severe Traumatic Brain Injury. J Neurotrauma. 2016 Mar 15;33(6):513-22.

Shear DA, Bramlett HM, Dixon CE, Dietrich WD, Deng-Bryant Y, Schmid Maj KE, **Mondello S**, Wang KK, Hayes RL, Povlishock J, Kochanek PM, Tortella FC. Nicotinamide Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):523-37.

Bramlett HM, Dietrich WD, Dixon CE, Shear DA, Schmid Maj KE, **Mondello S**, Wang KK, Hayes RL, Povlishock J, Tortella FC, Kochanek PM. Erythropoietin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):538-52.

Dixon CE, Bramlett HM, Dietrich WD, Shear DA, Yan HQ, Deng-Bryant Y, **Mondello S**, Wang KK, Hayes RL, Empey P, Povlishock J, Tortella FC, Kochanek PM. Cyclosporine Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):553-66.

Browning M, Shear DA, Bramlett HM, Dixon CE, **Mondello S**, Schmid Maj KE, Poloyac SM, Dietrich WD, Hayes RL, Wang KK, Povlishock J, Tortella FC, Kochanek PM. Levetiracetam Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):581-94.

Mountney A, Bramlett HM, Dixon CE, **Mondello S**, Dietrich WD 3rd, Wang KK, Caudle KL, Empey P, Poloyac SM, Hayes RL, Povlishock J, Tortella FC, Kochanek PM, Shear DA. Simvastatin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):567-80.

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Schmid Maj KE, Dietrich WD, Wang KK, Hayes RL, Glushakova O, Catania M, Richieri S, Povlishock J, Tortella FC, Kochanek PM. Insight into Preclinical Models of Traumatic Brain Injury Using Circulating Brain Damage Biomarkers: Operation Brain Trauma Therapy. J Neurotrauma. 2016 Mar 15;33(6):595-605.

Kochanek PM, Bramlett HM, Shear DA, Dixon CE, **Mondello S**, Dietrich WD, Hayes RL, Wang KK, Poloyac SM, Empey P, Povlishock J, Mountney A, Browning M, Deng-Bryant Y, Yan HQ, Jackson TC, Catania M, Glushakova O, Richieri S, Tortella FC. Synthesis of Findings, Current Investigations, and Future Directions: Operation Brain Trauma Therapy. *J Neurotrauma*. 2016 Mar 15;33(6):606-14.

Montagnese F, Granata F, Musumeci O, Rodolico C, **Mondello S**, Barca E, Cucinotta M, Ciranni A, Longo M, Toscano A. Intracranial arterial abnormalities in patients with late onset Pompe disease (LOPD). *J Inherit Metab Dis*. 2016 May;39(3):391-8.

Messina S, Vita GL, Sframeli M, **Mondello S**, Mazzone E, D'Amico A, Berardinelli A, La Rosa M, Bruno C, Distefano MG, Baranello G, Barcellona C, Scutifero M, Marcato S, Palmieri A, Politano L, Morandi L, Mongini T, Pegoraro E, D'Angelo MG, Pane M, Rodolico C, Minetti C, Bertini E, Vita G, Mercuri E. Health-related quality of life and functional changes in DMD: A 12-month longitudinal cohort study. *Neuromuscul Disord*. 2016 Mar;26(3):189-96.

Fink EL, Berger RP, Clark RS, Watson RS, Angus DC, Panigrahy A, Richichi R, Callaway CW, Bell MJ, **Mondello S**, Hayes RL, Kochanek PM. Exploratory Study of Serum Ubiquitin CarboxylTerminal Esterase L1 and Glial Fibrillary Acidic Protein for Outcome Prognostication after Pediatric Cardiac Arrest. *Resuscitation*. 2016 Feb 6;101:65-70.

Pontoriero A, Conti A, Iatì G, **Mondello S**, Aiello D, Rifatto C, Risoletti E, Mazzei M, Tomasello F, Pergolizzi S, De Renzis C. Prognostic factors in patients treated with stereotactic image-guided robotic radiosurgery for brain metastases: a single-center retrospective analysis of 223 patients. *Neurosurg Rev*. 2016 Jul;39(3):495-504.

Ren C, Kobeissy F, Alawieh A, Li N, Li N, Zibara K, Zoltewicz S, Guingab-Cagmat J, Larner SF, Ding Y, Hayes RL, Ji X, **Mondello S***. Assessment of Serum UCH-L1 and GFAP in Acute Stroke Patients. *Sci Rep*. 2016 Apr 14;6:24588. doi: 10.1038/srep24588.

Abou-Abbass H, Bahmad H, Abou-El-Hassan H, Zhu R, Zhou S, Dong X, Hamade E, Mallah K, Zebian A, Ramadan N, **Mondello S**, Fares J, Comair Y, Atweh S, Darwish H, Zibara K, Mechref Y, Kobeissy F. Deciphering glycomics and neuroproteomic alterations in experimental traumatic brain injury: Comparative analysis of aspirin and clopidogrel treatment. *Electrophoresis*. 2016 Jun;37(11):1562-1576.

Mondello S*, Kobeissy F, Vestri A, Hayes RL, Kochanek PM, Berger RP. Serum Concentrations of Ubiquitin C-Terminal Hydrolase-L1 and Glial Fibrillary Acidic Protein after Pediatric Traumatic Brain Injury. *Sci Rep.* 2016 Jun 20;6:28203. doi: 10.1038/srep28203.

Mondello P, Mian M, Pitini V, Cuzzocrea S, Sindoni A, Galletti M, Mandolino M, Santoro D, **Mondello S**, Aloisi C, Altavilla G, Benvenga S. Thyroid hormone autoantibodies: are they a better marker to detect early thyroid damage in patients with hematologic cancers receiving tyrosine kinase inhibitor or immunoregulatory drug treatments? *Curr Oncol.* 2016 Jun;23(3):e165-70.

Iati G, Pontoriero A, **Mondello S**, Santacaterina A, Platania A, Frosina P, Raso MM, Aiello D, Arcudi A, Arena G, Marino G, Mazzei M, Rifatto C, Risoletti E, Runco R, Sansotta G, Delia P, Sindoni A, Pergolizzi S. Nodal Ratio as a Prognostic Factor in Patients with Four or More Positive Axillary Nodes Treated with Breast-conserving Therapy and Regional Nodal Irradiation. *Anticancer Res.* 2016 Jul;36(7):3549-54.

Visalli C, Sicilia N, Salamone I, Chimenz R, Fede C, **Mondello S***. Accuracy of Cystosonography without Voiding Phase in the Diagnosis of Vesicoureteral Reflux in Children: A Variant of the Original Technique. *OMICS J Radiol* 2016, 5:2 <http://dx.doi.org/10.4172/2167-7964.1000219>

Jaber Z, Aouad P, Al Medawar M, Bahmad H, Abou-Abbass H, Ghandour H, **Mondello S**, Kobeissy F. Role of Systems Biology in Brain Injury Biomarker Discovery: Neuroproteomics Application. *Methods Mol Biol.* 2016;1462:157-74.

Nasser M, Bejjani F, Raad M, El Hassan HA, Mantash S, Nokkari A, Ramadan N, Kassem N, **Mondello S**, Hamadeh E, Darwish H, Zibara K, Kobeissy F. Traumatic Brain Injury and Blood Brain Barrier Cross Talk. *CNS Neurol Disord Drug Targets.* 2016;15(9):1030-1044.

Cacciola A, Milardi D, Anastasi GP, Basile GA, Ciolli P, Irrera M, Cutroneo G, Bruschetta D, Rizzo G, **Mondello S**, Bramanti P, Quartarone A. A Direct Cortico-Nigral Pathway as Revealed by Constrained Spherical Deconvolution Tractography in Humans. *Front Hum Neurosci.* 2016 Jul 26;10:374.

Thelin EP, Jeppsson E, Frostell A, Svensson M, **Mondello S**, Bellander BM, Nelson DW. Utility of neuron-specific enolase in traumatic brain injury; relations to S100B levels, outcome, and extracranial injury severity. *Crit Care.* 2016 Sep 8;20:285.

- Abou-Abbass H, Bahmad H, Ghandour H, Fares J, Wazzi-Mkahal R, Yacoub B, Darwish H, **Mondello S**, Harati H, El Sayed MJ, Tamim H, Kobeissy F. Epidemiology and clinical characteristics of traumatic brain injury in Lebanon: A systematic review. *Medicine (Baltimore)*. 2016 Nov;95(47):e5342.
- Kobeissy FH, Guingab-Cagmat JD, Zhang Z, Moghieb A, Glushakova OY, **Mondello S**, Boutté AM, Anagli J, Rubenstein R, Bahmad H, Wagner AK, Hayes RL, Wang KK. Neuroproteomics and Systems Biology Approach to Identify Temporal Biomarker Changes Post Experimental Traumatic Brain Injury in Rats. *Front Neurol*. 2016 Nov 22;7:198.
- Granese R, Calagna G, Sollano A, **Mondello S**, Sicilia A, Grasso R, Cucinella G, Triolo O. Data comparison between pharmacological induction of labour and spontaneous delivery. A single centre experience. *Ginekol Pol*. 2016;87(10):697-700.
- Hasan A, Deeb G, Rahal R, Atwi K, **Mondello S**, El Syed Marei Mady, Amrgali, Sleiman E. Mesenchymal Stem Cells in the Treatment of Traumatic Brain Injury. *Front Neurol*. 2017 Feb 20;8:28.
- Azar S, Hasan A, Younes R, Najdi F, Baki L, Ghazale H, Kobeissy FH, Zibara K, **Mondello S***. Biofluid Proteomics and Biomarkers in Traumatic Brain Injury. *Methods Mol Biol*. 2017;1598:45-63. doi: 10.1007/978-1-4939-6952-4_3.
- Thelin EP, Zeiler FA, Ercole A, **Mondello S**, Büki A, Bellander BM, Helmy A, Menon DK, Nelson DW. Serial Sampling of Serum Protein Biomarkers for Monitoring Human Traumatic Brain Injury Dynamics: A Systematic Review. *Front Neurol*. 2017 Jul 3;8:300. doi: 10.3389/fneur.2017.00300.
- Granese R, Mantegna S, **Mondello S**, Amadore D, Imbesi G, Calagna G, Marci R, Magro Malosso ER, Triolo O. Preterm birth: incidence, risk factors and second trimester cervical length in a single center population. A two-year retrospective study. *Eur Rev Med Pharmacol Sci*. 2017 Oct;21(19):4270-4277.
- Elliott JH, Synnot A, Turner T, Simmonds M, Akl EA, McDonald S, Salanti G, Meerpohl J, MacLehose H, Hilton J, Tovey D, Shemilt I, Thomas J; **Living Systematic Review Network**. Living systematic review: 1. Introduction-the why, what, when, and how. *J Clin Epidemiol*. 2017 Nov;91:23-30.
- Thomas J, Noel-Storr A, Marshall I, Wallace B, McDonald S, Mavergames C, Glasziou P, Shemilt I, Synnot A, Turner T, Elliott J; **Living Systematic Review Network**. Living systematic reviews: 2. Combining human and machine effort. *J Clin Epidemiol*. 2017 Nov;91:31-37.

- Simmonds M, Salanti G, McKenzie J, Elliott J; **Living Systematic Review Network**. Living systematic reviews: 3. Statistical methods for updating meta-analyses. *J Clin Epidemiol*. 2017 Nov;91:38-46.
- Akl EA, Meerpohl JJ, Elliott J, Kahale LA, Schünemann HJ; **Living Systematic Review Network**. Living systematic reviews: 4. Living guideline recommendations. *J Clin Epidemiol*. 2017 Nov;91:47-53.
- Halford J, Shen S, Itamura K, Levine J, Chong AC, Czerwieniec G, Glenn TC, Hovda DA, Vespa P, Bullock R, Dietrich WD, **Mondello S**, Loo JA, Wanner IB. New astroglial injury-defined biomarkers for neurotrauma assessment. *J Cereb Blood Flow Metab*. 2017 Oct;37(10):3278-3299.
- Montagnese F, **Mondello S**, Wenninger S, Kress W, Schoser B. Assessing the influence of age and gender on the phenotype of myotonic dystrophy type 2. *J Neurol*. 2017 Dec;264(12):2472-2480.
- Maas AIR, Menon DK, Adelson PD, Andelic N, Bell MJ, Belli A, Bragge P, Brazinova A, Büki A, Chesnut RM, Citerio G, Coburn M, Cooper DJ, Crowder AT, Czeiter E, Czosnyka M, Diaz-Arrastia R, Dreier JP, Duhaime AC, Ercole A, van Essen TA, Feigin VL, Gao G, Giacino J, Gonzalez-Lara LE, Gruen RL, Gupta D, Hartings JA, Hill S, Jiang JY, Ketharanathan N, Kompanje EJO, Lanyon L, Laureys S, Lecky F, Levin H, Lingsma HF, Maegele M, Majdan M, Manley G, Marsteller J, Mascia L, McFadyen C, **Mondello S**, Newcombe V, Palotie A, Parizel PM, Peul W, Piercy J, Polinder S, Puybasset L, Rasmussen TE, Rossaint R, Smielewski P, Söderberg J, Stanworth SJ, Stein MB, von Steinbüchel N, Stewart W, Steyerberg EW, Stocchetti N, Synnot A, Te Ao B, Tenovuo O, Theadom A, Tibboel D, Videtta W, Wang KKW, Williams WH, Wilson L, Yaffe K; InTBIR Participants and Investigators. Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *Lancet Neurol*. 2017 Dec;16(12):987-1048.
- Ghazale H, Ramadan N, Mantash S, Zibara K, El-Sitt S, Darwish H, Chamaa F, Boustany RM, **Mondello S**, Abou-Kheir W, Soueid J, Kobeissy F. Docosahexaenoic Acid (DHA) enhances the therapeutic potential of Neonatal Neural Stem Cell transplantation Post-Traumatic Brain Injury. *Behav Brain Res*. 2018 Mar 15;340:1-13.
- Dattilo G, Imbalzano E, Casale M, Guarneri C, Borgia F, **Mondello S**, Laganà P, Romano P, Oreto G, Cannavò S. Psoriasis and Cardiovascular Risk: Correlation Between Psoriasis and Cardiovascular Functional Indices. *Angiology*. 2018 Jan;69(1):31-37.
- Yokobori S, Nakae R, Yokota H, Spurlock MS, **Mondello S**, Gajavelli S, Bullock RM. Subdural Hematoma Decompression Model: A

model of Traumatic Brain Injury with Ischemic-Reperfusional Pathophysiology: A Review of the literature. *Behav Brain Res.* 2018 Mar 15;340:23-28.

Hellewell SC, **Mondello S***, Conquest A, Shaw G, Madorsky I, Deng JV, Little L, Kobeissy F, Bye N, Bellomo R, Cooper DJ, Vallance S, Board J, Morganti-Kossmann MC. Erythropoietin Does Not Alter Serum Profiles of Neuronal and Axonal Biomarkers After Traumatic Brain Injury: Findings From the Australian EPO-TBI Clinical Trial. *Crit Care Med.* 2018 Apr;46(4):554-561.

Nokkari A, Abou-El-Hassan H, Mechref Y, **Mondello S**, Kindy MS, Jaffa AA, Kobeissy F. Implication of the Kallikrein-Kinin System on Neurological Disorders: Quest for Potential Biomarkers and Mechanisms. *Prog Neurobiol.* 2018;165–167: 26–50.

Talih F, Gebara NY, Andary FS, **Mondello S**, Kobeissy F, Ferri R. Delayed sleep phase syndrome and bipolar disorder: Pathogenesis and available common biomarkers. *Sleep Med Rev.* 2018 Oct;41:133-140.

Kochanek PM, Bramlett HM, Dixon CE, Dietrich WD 3rd, **Mondello S**, Wang KK, Hayes RL, Lafrenaye A, Povlishock J, Tortella FC, Poloyac SM, Empey P, Shear DA. Operation Brain Trauma Therapy: 2016 Update. *MILITARY MEDICINE*, 2018 Mar 1;183(suppl_1):303-312.

***Mondello S**, Thelin EP, Shaw G, Salzet M, Visalli C, Cizkova D, Kobeissy F, Buki A. Extracellular vesicles: pathogenetic, diagnostic and therapeutic value in traumatic brain injury. *Expert Rev Proteomics.* 2018 May;15(5):451-461.

DeWitt D, Hawkins BE, Dixon CE, Kochanek PM, Armstead WM Ph.D, Bass C', Bramlett HM, Büki A, Dietrich WD, Ferguson AR, Hall ED, Hayes RL, Hinds li CSR, LaPlaca M, Long J, Meaney D, **Mondello S**, Noble-Haeusslein L, Poloyac SM, Prough DS, Robertson CS, Saatman KE, Shultz SR, Shear DA, Smith DH Dr, Valadka A, VandeVord PJ, Zhang L. Preclinical Testing of Therapies for Traumatic Brain Injury. *J Neurotrauma.* 2018 Dec 1;35(23):2737-2754.

Synnot A, Bragge P, Lunny C, Menon D, Clavisi O, Pattuwage L, Volovici V, **Mondello S**, Crossen MC, Donoghue E, Gruen RL, Maas A.(2018) The currency, completeness and quality of systematic reviews of acute management of moderate to severe traumatic brain injury: A comprehensive evidence map. *PLoS One.* 2018 Jun 21;13(6):e0198676.

Mondello S*, Sorinola A, Czeiter E, Vámos Z, Amrein K, Synnot A, Donoghue EL, Sándor J, Wang KKW, Diaz-Arrastia R, Steyerberg EW, Menon D, Maas A, Buki A. Blood-Based Protein Biomarkers for the Management of Traumatic Brain

Injuries in Adults Presenting with Mild Head Injury to Emergency Departments: A Living Systematic Review and Meta-Analysis. *J Neurotrauma*. 2018 Jul 2. doi: 10.1089/neu.2017.5182. [Epub ahead of print]

Ripolone M, Violano R, Ronchi D, **Mondello S**, Nascimbeni A, Colombo I, Fagiolari G, Bordoni A, Fortunato F, Lucchini V, Saredi S, Filosto M, Musumeci O, Tonin P8, Mongini T9, Previtali S0, Morandi L, Angelini C, Mora M, Sandri M, Sciacco M, Toscano A, Comi GP, Moggio M. Effects of short-to-long term Enzyme Replacement Therapy (ERT) on skeletal muscle tissue in Late Onset Pompe disease (LOPD). *Neuropathol Appl Neurobiol*. 2018, 44, 449–462.

M Ripolone, V Lucchini, D Ronchi, G Fagiolari, A Bordoni, F Fortunato, **S Mondello**, S Bonato, M Meregalli, Y Torrente, S Corti, G P Comi, M Moggio, M Sciacco. Purkinje cell COX deficiency and mtDNA depletion in an animal model of spinocerebellar ataxia type 1. *Journal of Neuroscience Research* 96 (9), 1576-1585, 2018.

Kochanek PM, Dixon CE, **Mondello S**, Wang KKK, Lafrenaye A, Bramlett HM, Dietrich WD, Hayes RL, Shear DA, Gilsdorf JS, Catania M, Poloyac SM, Empey PE, Jackson TC, Povlishock JT. Multi-Center Pre-clinical Consortia to Enhance Translation of Therapies and Biomarkers for Traumatic Brain Injury: Operation Brain Trauma Therapy and Beyond. *Front Neurol*. 2018 Aug 7;9:640.

Dong X, **Mondello S***, Kobeissy F, Talih F, Ferri R, Mechref Y. LC-MS/MS glycomics of idiopathic rapid eye movement sleep behavior disorder. *Electrophoresis*. 2018 Dec;39(24):3096-3103.

Gill J, Latour L, Diaz-Arrastia R, Motamedi V, Turtzo C, Shahim P, **Mondello S**, DeVoto C, Veras E, Hanlon D, Song L, Jeromin A. Glial fibrillary acidic protein elevations relate to neuroimaging abnormalities acutely following a mild traumatic brain injury. *Neurology*. 2018 Oct 9;91(15):e1385-e1389.

Perry LA , Lucarelli T, Penny-Dimri JC, McInnes MDF, **Mondello S**, Bustamante A, Montaner J, Foerch C, Kwan P, Davis S, Yan B. Glial fibrillary acidic protein for the early diagnosis of intracerebral hemorrhage: Systematic review and meta-analysis of diagnostic test accuracy. *Int J Stroke*. 2018 Oct 10:1747493018806167. doi: 10.1177/1747493018806167. [Epub ahead of print].

Parisi D, Musumeci O, **Mondello S**, Brizzi T, Oteri R, Migliorato A, Ciranni A, Mongini T.E., Rodolico C., Vita G, Toscano A. Vacuolated PAS-Positive Lymphocytes on Blood Smear: An

Easy Screening Tool and a Possible Biomarker for Monitoring Therapeutic Responses in Late Onset Pompe Disease (LOPD). *Front. Neurol.*, 22 October 2018 | <https://doi.org/10.3389/fneur.2018.00880>.

***Mondello S**, Kobeissy F, Mechref Y, Zhao J, Talih FR, Cosentino F, Antelmi E, Moresco M, Plazzi G, Ferri R. Novel biomarker signatures for idiopathic REM sleep behavior disorder: A proteomic and system biology approach. *Neurology*. 2018 Oct 30;91(18):e1710-e1715.

Yokobori S, Wang KKK, Yang Z, Zhu T, Tyndall JA, **Mondello S**, Shibata Y, Tominaga N, Kanaya T, Takiguchi T, Igarashi Y, Hagiwara J, Nakae R, Onda H, Masuno T, Fuse A, Yokota H. Quantitative pupillometry and neuron-specific enolase independently predict return of spontaneous circulation following cardiogenic out-of-hospital cardiac arrest: a prospective pilot study. *Sci Rep*. 2018 Oct 29;8(1):15964.

Yang Z, Zhu T, **Mondello S**, Akel M, Wong AT, Kothari IM, Lin F, Shear DA, Gilsdorf J, Leung LY, Bramlett HM, Dixon CE, Dietrich WD, Hayes RL, Povlishock J, Tortella FC, Kochanek PM, Wang KKW. Serum-based phospho-neurofilament-heavy protein as theranostic biomarker in three models of traumatic brain injury: an Operation Brain Trauma Therapy (OBTT) study. *J Neurotrauma*. 2019 Jan 15;36(2):348-359.

GBD 2016 Traumatic Brain Injury and Spinal Cord Injury Collaborators. James SL, Theadom A, Ellenbogen RG, Bannick MS, Montjoy-Venning W, Lucchesi LR, Abbasi N, Abdulkader R, Abraha HN, Adsuar JC, Afarideh M, Agrawal S, Ahmadi A, Ahmed MB, Aichour AN, Aichour I, Aichour MTE, Akinyemi RO, Akseer N, Alahdab F, Alebel A, Alghnam SA, Ali BA, Alsharif U, Altirkawi K, Andrei CL, Anjomshoa M, Ansari H, Ansha MG, Antonio CAT, Appiah SCY, Ariani F, Asefa NG, Asgedom SW, Atique S, Awasthi A, Ayala Quintanilla BP, Ayuk TB, Azzopardi PS, Badali H, Badawi A, Balalla S, Banstola A, Barker-Collo SL, Bärnighausen TW, Bedi N, Behzadifar M, Behzadifar M, Bekele BB, Belachew AB, Belay YA, Bennett DA, Bensenor IM, Berhane A, Beuran M, Bhalla A, Bhaumik S, Bhutta ZA, Biadgo B, Biffino M, Bijani A, Bililign N, Birungi C, Boufous S, Brazinova A, Brown AW, Car M, Cárdenas R, Carrero JJ, Carvalho F, Castañeda-Orjuela CA, Catalá-López F, Chaiah Y, Champs AP, Chang JC, Choi JJ, Christopher DJ, Cooper C, Crowe CS, Dandona L, Dandona R, Daryani A, Davitoliu DV, Degefa MG, Demoz GT, Deribe K, Djalalinia S, Do HP, Doku DT, Drake TM, Dubey M, Dubljanin E, El-Khatib Z, Ofori-Asenso R, Eskandarieh S, Esteghamati A, Esteghamati S, Faro A, Farzadfar F, Farzaei MH, Fereshtehnejad SM, Fernandes E, Feyissa GT, Filip I, Fischer F, Fukumoto T, Ganji M, Gankpe FG, Gebre AK, Gebrehiwot TT, Gezae KE, Gopalkrishna G,

Goulart AC, Haagsma JA, Haj-Mirzaian A, Haj-Mirzaian A, Hamadeh RR, Hamidi S, Haro JM, Hassankhani H, Hassen HY, Havmoeller R, Hawley C, Hay SI, Hegazy MI, Hendrie D, Henok A, Hibstu DT, Hoffman HJ, Hole MK, Homaie Rad E, Hosseini SM, Hostiuc S, Hu G, Hussen MA, Ilesanmi OS, Irvani SSN, Jakovljevic M, Jayaraman S, Jha RP, Jonas JB, Jones KM, Jorjoran Shushtari Z, Jozwiak JJ, Jürisson M, Kabir A, Kahsay A, Kahssay M, Kalani R, Karch A, Kasaeian A, Kassa GM, Kassa TD, Kassa ZY, Kengne AP, Khader YS, Khafaie MA, Khalid N, Khalil I, Khan EA, Khan MS, Khang YH, Khazaie H, Khoja AT, Khubchandani J, Kiadaliri AA, Kim D, Kim YE, Kisa A, Koyanagi A, Krohn KJ, Kuate Defo B, Kucuk Bicer B, Kumar GA, Kumar M, Laloo R, Lami FH, Lansingh VC, Laryea DO, Latifi A, Leshargie CT, Levi M, Li S, Liben ML, Lotufo PA, Lunevicius R, Mahotra NB, Majdan M, Majeed A, Malekzadeh R, Manda AL, Mansournia MA, Massenburg BB, Mate KKV, Mehndiratta MM, Mehta V, Meles H, Melese A, Memiah PTN, Mendoza W, Mengistu G, Meretoja A, Meretoja TJ, Mestrovic T, Miazgowski T, Miller TR, Mini GK, Mirica A, Mirrahimov EM, Moazen B, Mohammadi M, Molokhia M, Monasta L, **Mondello S**, Moosazadeh M, Moradi G, Moradi M, Moradi-Lakeh M, Moradinazar M, Morrison SD, Moschos MM, Mousavi SM, Murthy S, Musa KI, Mustafa G, Naghavi M, Naik G, Najafi F, Nangia V, Nascimento BR, Negroi I, Nguyen TH, Nichols E, Ningrum DNA, Nirayo YL, Nyasulu PS, Ogbo FA, Oh IH, Okoro A, Olagunju AT, Olagunju TO, Olivares PR, Otstavnov SS, Owolabi MO, P A M, Pakhale S, Pandey AR, Pesudovs K, Pinilla-Monsalve GD, Polinder S, Poustchi H, Prakash S, Qorbani M, Radfar A, Rafay A, Rafiei A, Rahimi-Movaghar A, Rahimi-Movaghar V, Rahman M, Rahman MA, Rai RK, Rajati F, Ram U, Rawaf DL, Rawaf S, Reiner RC, Reis C, Renzaho AMN, Resnikoff S, Rezaei S, Rezaeian S, Roever L, Ronfani L, Roshandel G, Roy N, Ruhago GM, Saddik B, Safari H, Safiri S, Sahraian MA, Salamati P, Saldanha RF, Samy AM, Sanabria J, Santos JV, Santric Milicevic MMM, Sartorius B, Satpathy M, Savuon K, Schneider IJC, Schwebel DC, Sepanlou SG, Shabaninejad H, Shaikh MAA, Shams-Beyranvand M, Sharif M, Sharif-Alhoseini M, Shariful Islam SM, She J, Sheikh A, Shen J, Sheth KN, Shibuya K, Shiferaw MS, Shigematsu M, Shiri R, Shiue I, Shoman H, Siabani S, Siddiqi TJ, Silva JP, Silveira DGA, Sinha DN, Smith M, Soares Filho AM, Sobhani S, Soofi M, Soriano JB, Soyiri IN, Stein DJ, Stokes MA, Sufiyan MB, Sunguya BF, Sunshine JE, Sykes BL, Szoeki CEI, Tabarés-Seisdedos R, Te Ao BJ, Tehrani-Banihashemi A, Tekle MG, Temsah MH, Temsah O, Topor-Madry R, Tortajada-Girbés M, Tran BX, Tran KB, Tudor Car L, Ukwaja KN, Ullah I, Usman MS, Uthman OA, Valdez PR, Vasankari TJ, Venketasubramanian N, Violante FS, Wagnew FWS, Waheed Y, Wang YP, Weldegewergs KG, Werdecker A, Wijeratne T, Winkler AS, Wyper GMA, Yano Y, Yaseri M, Yasin YJ, Ye P, Yimer EM, Yip P, Yisma E, Yonemoto N, Yoon SJ, Yost MG,

Younis MZ, Yousefifard M, Yu C, Zaidi Z, Zaman SB, Zamani M, Zenebe ZM, Zodpey S, Feigin VL, Vos T, Murray CJL. Global, regional, and national burden of traumatic brain injury and spinal cord injury, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet Neurol.* 2019 Jan;18(1):56-87.

GBD 2016 Dementia Collaborators. Nichols E, Szeoke CEI, Vollset SE, Abbasi N, Abd-Allah F, Abdela J, Aichour MTE, Akinyemi RO, Alahdab F, Asgedom SW, Awasthi A, Barker-Collo SL, Baune BT, Béjot Y, Belachew AB, Bennett DA, Biadgo B, Bijani A, Bin Sayeed MS, Brayne C, Carpenter DO, Carvalho F, Catalá-López F, Cerin E, Choi JJ, Dang AK, Degefa MG, Djalalinia S, Dubey M, Duken EE, Edvardsson D, Endres M, Eskandarieh S, Faro A, Farzadfar F, Fereshtehnejad SM, Fernandes E, Filip I, Fischer F, Gebre AK, Geremew D, Ghasemi-Kasman M, Gnedovskaya EV, Gupta R, Hachinski V, Hagos TB, Hamidi S, Hankey GJ, Haro JM, Hay SI, Irvani SSN, Jha RP, Jonas JB, Kalani R, Karch A, Kasaeian A, Khader YS, Khalil IA, Khan EA, Khanna T, Khoja TAM, Khubchandani J, Kisa A, Kissimova-Skarbek K, Kivimäki M, Koyanagi A, Krohn KJ, Logroscino G, Lorkowski S, Majdan M, Malekzadeh R, März W, Massano J, Mengistu G, Meretoja A, Mohammadi M, Mohammadi-Khanaposhtani M, Mokdad AH, **Mondello S**, Moradi G, Nagel G, Naghavi M, Naik G, Nguyen LH, Nguyen TH, Nirayo YL, Nixon MR, Ofori-Asenso R, Ogbo FA, Olagunju AT, Owolabi MO, Panda-Jonas S, Passos VMA, Pereira DM, Pinilla-Monsalve GD, Piradov MA, Pond CD, Poustchi H, Qorbani M, Radfar A, Reiner RC Jr, Robinson SR, Roshandel G, Rostami A, Russ TC, Sachdev PS, Safari H, Safiri S, Sahathevan R, Salimi Y, Satpathy M, Sawhney M, Saylan M, Sepanlou SG, Shafieesabet A, Shaikh MA, Sahraian MA, Shigematsu M, Shiri R, Shiue I, Silva JP, Smith M, Sobhani S, Stein DJ, Tabarés-Seisdedos R, Tovani-Palone MR, Tran BX, Tran TT, Tsegay AT, Ullah I, Venketasubramanian N, Vlassov V, Wang YP, Weiss J, Westerman R, Wijeratne T, Wyper GMA, Yano Y, Yimer EM, Yonemoto N, Yousefifard M, Zaidi Z, Zare Z, Vos T, Feigin VL, Murray CJL. Global, regional, and national burden of Alzheimer's disease and other dementias, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet Neurol.* 2019 Jan;18(1):88-106.

Zibara K Ballout N, **Mondello S**, Karnib N, Ramadan N, Omais S, Nabbouh A, Caliz D, Clavijo A, Hu Z, Ghanem N, Gajavelli S, Kobeissy F. Combination of Drug and Stem cells Neurotherapy: Potential Interventions in Neurotrauma and Traumatic Brain Injury. *Neuropharmacology.* 2019 Feb;145(Pt B):177-198.

Ghareghani M, Scavo L, Jand Y, Farhadi N, Sadeghi N, Ghanbari A, **Mondello S**, Arnoult D, Gharaghani S, Zibara K. Melatonin

Therapy Modulates Cerebral Metabolism and Enhances Remyelination by Increasing PDK4 in an in vivo Mouse Model of Multiple Sclerosis. *Front. Pharmacol.* | doi: 10.3389/fphar.2019.00147

PROTOCOL FOR SYSTEMATIC REVIEWS (TOTAL 7)

***Mondello S**, Czeiter E, Sorinola A, Vámos Z, Buki A. Blood-based biomarkers for the diagnosis, characterization and outcome prediction of traumatic brain injuries in adults: a living systematic review. Registration number: CRD42014013814. http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42014013814#.VCGMMfidX2E

***Mondello S**, Czeiter E, Sorinola A, Vámos Z, Krisztina Amrein, Buki A. Blood-based biomarkers for the diagnosis of traumatic brain injuries in adults after mild head injury in emergency department: a living systematic review and meta-analysis. Registration number: CRD42016048154. http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016048154

***Mondello S**, Czeiter E, Sorinola A, Vámos Z, Krisztina Amrein, Buki A. Prognostic accuracy of admission measurement of brain damage protein biomarkers in blood for outcome prediction in adults with traumatic brain injury: a living systematic review and meta-analysis. Registration number: CRD42016048154. http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016048189

Lunny C, Synnot A, Volovici V, **Mondello S**, Clossen M, Bragge P, Gruen R.L., Steyerberg E, Lingsma H, Peul W, Menon D, Maas A. An overview of reviews to explore evidence for effectiveness of acute management strategies for moderate to severe traumatic brain injury. Registration number: CRD42016048571. http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016048571

Phipps H, **Mondello S**. Patterns in the epidemiology and cost of US military blast traumatic brain injury (TBI): a systematic review. Registration number: CRD42017054942. https://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42017054942

Hussein Abou-Abbass, Hisham Bahmad, Mayse Nasser, Ali Kassem, Hiba Ghandour, Hadi Abou-El-Hassan, Rayyan Wazzi-Mkahal, Lina Karout, Ola Asaad, Mohamed El-Moheb, Ahmad Chmaise, Nour Houchiemi, Aida Farha, Hayat Harati, Stefania Mondello, Helen Phipps, Hani Tamim, Elie Akl, Firas Kobeissy. Traumatic brain injury (TBI) in the Middle East and North Africa (MENA)

region: a systematic review and meta-analysis. Registration number: CRD42017058952.
https://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42017058952

***Mondello S**, Zemplényi AT, Polinder S, Buki A, Kovacs S, Brooker J, Feigin V, Czeiter E, Amrein K, Donoghue E, Steyerberg E, Menon D, Maas A, Te Ao B. The Economic Burden of Traumatic Brain Injury: A Living Systematic Review and Narrative Synthesis of Evidence. Registration number:CRD42018086092.
http://www.crd.york.ac.uk/PROSPERO/display_record.php?ID=CRD42018086092

BOOK CHAPTERS (TOTAL 13)

Stefania Mondello*, Firas Kobeissy, Isaac Fingers, Zhiqun Zhang, Ronald L Hayes, Kevin KW Wang. Data Mining Strategies Applied in Brain Injury models. In: Data Mining for Biomarker Discovery. Springer Optimization and Its Applications, Vol. 65. Pardalos, Panos M.; Xanthopoulos, Petros; Zervakis, Michalis (Eds.) 2012, ISBN 978-1-4614-2106-1.

Stefania Mondello*, Firas H Kobeissy, Andreas Jeromin, Joy D Guingab-Cagmat, Zhiqun Zhang, Jackson Streeter, Ronald L Hayes, Kevin KW Wang. Novel Strategies for Discovery, Validation and FDA Approval of Biomarkers for Acute and Chronic Brain Injury. In: Brain Injury - Pathogenesis, Monitoring, Recovery and Management, Ed: InTech. 2012, ISBN 978-953-51-0265-6. DOI: 10.5772/1074

Stefania Mondello*, Ronald L Hayes, Kevin KW Wang. Utilities of TBI Biomarkers in Various Clinical Settings. In: Biomarkers for Traumatic Brain Injury, Royal Chemistry Soc Publishing House (London, UK) Dambinova, Svetlana; Hayes, Ronald, L.; Wang, Kevin K.W. (Eds.) 2012, ISBN 978-1-84973-389-2.

Olena Glushakova, **Stefania Mondello**, Ronald L. Hayes. Blood Biomarkers for Acute CNS Insults: Traumatic Brain Injury and Stroke In: Vascular Mechanisms in CNS Trauma. Editors: Eng H. Lo, Josephine Lok, MingMing Ning, Michael J. Whalen. Ed: Springer Press. ISBN: 978-1-4614-8689-3 (Print) 978-1-4614-8690-9 (Online).

Ali Alawieh, Zahraa Sabra, Amaly Nokari, **Stefania Mondello**, Fadi Zaraket, Bilal Fadlallah, Firas Kobeissy. Bioinformatic Approach to Understanding Interacting Pathways in Neuropsychiatric Disorders. In: Methods in Molecular Biology. Vol. 1168. Editors: Trent, Ronald J. A. Springer Press. ISBN 978-1-4939-0846-2.

Tarek H. Mouhieddine, Leeanna El Houjeiri, Mirna Sabra, Ronald Hayes, **Stefania Mondello***. CNS trauma Biomarkers and surrogate endpoints pipeline from bench to bedside: a translational perspective. In: Kobeissy FH PhD, editor. Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects. Boca Raton (FL): CRC Press; 2015. Chapter 20. *Frontiers in Neuroengineering*. ISBN 978-1-4665-6598-2. PMID: 26269914.

Andras Buki, Noemi Kovacs, Endre Czeiter, Kara Schmid, Domenico Italiano, Firas Kobeissy, Frank C. Tortella, Ronald L. Hayes., Emese Mezősi, Attila Schwarcz, Arnold Tóth, Orsolya Nemes, **Stefania Mondello***. Minor and Repetitive Head Injury. In: *Advances and Technical Standards in Neurosurgery*. Ed: Springer. 2015;42:147-92. doi: 10.1007/978-3-319-09066-5_8. ISBN 978-3-319-09065-8.

Stefania Mondello*, Ronald L. Hayes. Current and Emerging Diagnostic Tools: Biomarkers. In: *Traumatic Brain Injury, Part I. Handbook of Clinical Neurology*. Editors: A. Salazar & J. Grafman. Ed: Elsevier (including the imprints Churchill Livingstone, WB Saunders, Academic Press, Cell Press). Nature Publishing Group. ISBN:9780444528926. doi: 10.1016/B978-0-444-52892-6.00016-7.

Tala. El Tal, Rayan El Sibai, **Stefania Mondello**, Firas Kobeissy. Neuro-Tissue Engineering Interventions for Traumatic Brain Injuries. In: *Tissue Engineering for Artificial Organs*. Editor: Anwarul Hasan. Ed: John-Wiley Publication, USA. ISBN-13: 978-3527338634. DOI: 10.1002/9783527689934.ch20.find pdf

Zaynab Jaber, Patrick Aouad, Mohamad Al Medawar, Hisham Bahmad, Hussein Abou Abbass, Sarah Mantash, **Stefania Mondello**, Firas Kobeissy. Application of Systems Biology to Neuroproteomics: The Path to Enhanced Theranostics for Traumatic Brain Injury (Part I). In: *Injury Models of the Central Nervous system Series Title: Methods in Molecular Biology*. Publisher: Humana Press – Springer. ISBN 978-1-4939-3816-2.

Safa.S. Azar; Anwarul Hasan,; Richard Younes; Farah Najdi; Firas Kobeissy; **Stefania Mondello***. Biofluid Proteomics and Biomarkers in Traumatic Brain Injury. In: *Neuroproteomics, Series Title: Methods Molecular Biology, Vol. 1598*, Firas H. Kobeissy and Stanley M. Stevens, Jr. (Eds). ISBN: 978-1-4939-6950-0.

***Stefania Mondello**, Andrew I.R. Maas, Andras Buki. Clinical utility of Blood-Based Protein Biomarkers in Traumatic Brain Injury. In: *Annual Update on Intensive Care and Emergency Medicine*

2017. Publisher: Springer International Publishing. Editors: Vincent, Jean-Louis (Ed.). ISBN ISBN 978-3-319-51908-1.

Patrizia Congiu, Monica Puligheddu, Michela Figorilli, **Stefania Mondello**, Raffaele Ferri. Sleep in Traumatic Brain Injury. In: Sleep Neurology: A Comprehensive Guide to Basic and Clinical Aspects. Springer International Publishing. Editors: Lourdes DelRosso and Raffaele Ferri. *In press*.

ABSTRACTS/POSTERS PRESENTATIONS (TOTA 139)

*****ABSTRACT SELECTED FOR ORAL PRESENTATIONS (TOTAL 20)**

A. Crisafulli, C. Aloisi, M. Buemi, **S. Mondello**, A. Romeo, G. D' Anneo. Bone mineral density and osteoprotegerin in haemodialysis patients. 2nd Joint Meeting of the European Calcified Tissue Society (ECTS) and the International Bone and Mineral Society (IBMS), Fitzroy (Australia), 25-29 June 2005. Abstract n° P706-Su.

***S. Mondello**, B. Almoto, S. Cannavò, C. Aloisi. Acute respiratory failure associated with Hypophosphatemia in a patient with Cushing's syndrome secondary to ectopic ACTH production. "108th National Meeting" of Italian Society of Internal Medicine (SIMI), Roma 20-23 October 2007. Abstracts Book p. S112.

***S. Mondello**, A. Gabrielli, S. Robicsek, A. Buki, G. Robinson, G. Brophy, M. Jixiang, U. Muller, F. Tortella, K. Wang, R. Hayes. Biomarker Assessment for Neurotrauma Diagnosis and Improved Triage System (BANDITS): Interim Analysis of Feasibility Study of Biomarkers of Severe TBI ATACCC 2009 Conference, 10-12 August 2009 St. Pete Beach, Florida.

K. Wang, **S. Mondello**, L. Lewis, G. Robinson, M. Jixiang, U. Muller, L. Papa, F. Tortella, R. Hayes. Biomarker Assessment for Neurotrauma Diagnosis and Improved Triage System (BANDITS): Interim Analysis of Pilot Study of Biomarkers of Mild and Moderate TBI. ATACCC 2009 Conference, 10-12 August 2009 St. Pete Beach, Florida.

***S. Mondello**, S. Robicsek, A. Gabrielli, G. Brophy, L. Papa, J. Tepas, C. Robertson, A. Buki, K. Wang, R. Hayes. Necrotic and apoptotic cell death processes in severe traumatic brain injury assessed by sandwich elisa-based analysis of all-spectrin breakdown products in cerebrospinal fluid — clinical significance and temporal profile. Neurotrauma 2009. The Second Joint Symposium of the National and International Neurotrauma Societies September 7–11, 2009 Santa Barbara, CA. Abstracts Book p. A-5 P15. **Journal of Neurotrauma. Aug 2009; 26(8): A5-A5. Abstract n°P15.**

G. Brophy, **S. Mondello**, S. Robicsek, A. Gabrielli, L. Papa, J. Tepas, A. Buki, K. Wang, R. Hayes. Biokinetic analysis of ubiquitin c-terminal hydrolase (UCH-L1) in severe traumatic brain injury patient biofluids. Neurotrauma 2009. The Second Joint Symposium of the National and International Neurotrauma Societies, September 7–11, 2009 Santa Barbara, CA. Abstracts

Book p. A-5 P48. **Journal of Neurotrauma. Aug 2009; 26(8): A14-A14. Abstract n°P48.**

***S. Mondello**, S. Robicsek, A. Gabrielli, G. Brophy, L.Papa, J. Tepas, C. Robertson, A. Buki, K. Wang, R. Hayes. UCH-L1 levels in CSF and Serum: Diagnosis and Outcome in Severe Traumatic Brain Injury Patients. 39th Critical Care Congress, Society of Critical Care Medicine's, January 9-13, 2010, Miami Beach, Florida, USA. **Crit Care Med 2009 Vol. 37, No.12 (suppl): A296. Abstract n°609.**

S. Grek, **S. Mondello**, A. Gabrielli, S. Robicsek, R. Hayes. Mathematical Modeling of Secondary Dose of Injury: "Area Under The Curve (Auc)" Analysis. 39th Critical Care Congress, Society of Critical Care Medicine's, January 9-13, 2010, Miami Beach, Florida, USA. **Crit Care Med 2009 Vol. 37, No.12 (suppl): A466. Abstract n°951.**

***S. Mondello**, A Buki, R Bullock, CS Robertson, E Czeiter, E Ezer, FC Tortella, KK Wang, RL Hayes. Brain Biomarkers and Brain Tissue Oxygenation: Changes and Correlations Following Severe Head Injury. ISICEM 2010 - 30th International Symposium on Intensive Care and Emergency Medicine: March 09-12, 2010, Brussels (Belgium). **Critical Care 2010, 14(Suppl 1): P295.**

***S. Mondello**, L Papa, R Bullock, A Buki, E Czeiter, E Ezer, FC Tortella, KK Wang, RL Hayes. CSF Biomarkers Following Severe Head Injury: Relationship to CT Descriptive Characteristics and Outcome. 5th Pannonian Symposium on CNS Injury May 13-15, 2010, Pecs (Hungary).

***S. Mondello**, L Papa, A Buki, R Bullock, G Brophy, CS Robertson, E Czeiter, E Ezer, Justin Blaber, FC Tortella, KK Wang, RL Hayes. Changes in Brain Biomarkers and Brain Tissue Oxygenation Following Severe Head Injury: A Case Series. NNS 2010: The 28th Annual National Neurotrauma Symposium, June 14-17, 2010, Las Vegas, Nevada. Abstracts Book p. A-22 P54. **Journal of Neurotrauma. May 2010; 27(5): A22-A22. Abstract n°P54.**

***S. Mondello**; L Papa; R Bullock; A Buki; G Brophy; CS Robertson; E Czeiter; FC Tortella; KK Wang; RL Hayes. Toward Improved Prediction of Outcome In Traumatic Brain Injury: Comparison Between Computed Tomographic Classifications And The Serum Biomarker UCH-L1. NNS 2010: The 28th Annual National Neurotrauma Symposium, June 14-17, 2010, Las Vegas, Nevada. Abstracts Book p. A-21 P53. **Journal of Neurotrauma. May 2010; 27(5): A21-A21. Abstract n°P53.**

K Schmid, U Müller, K Wang, L Akinyi, D Scharf, **S Mondello**, J Streeter, RL Hayes; FC Tortella. Development of A TBI Diagnostic Assay System For Multiple Levels Of Care. NNS 2010: The 28th Annual National Neurotrauma Symposium, June 14-17, 2010, Las Vegas, Nevada. Abstracts Book p. A-26 P69. **Journal of Neurotrauma. May 2010; 27(5): A26-A26. Abstract n°P69.**

G Brophy, **S Mondello**, L Papa, S. Robicsek, A. Gabrielli, J. Tepas, A. Buki, C. Robertson, FC Tortella, K. Wang, R. Hayes. Ubiquitin

C-Terminal Hydrolase (UCH-L1): Correlations Exist Between Biofluid Kinetics and Clinical Outcome In Severe Traumatic Brain Injury Patients. NNS 2010: The 28th Annual National Neurotrauma Symposium, June 14-17, 2010, Las Vegas, Nevada. Abstracts Book p. A-21 P52. **Journal of Neurotrauma. May 2010; 27(5): A21-A21. Abstract n°P52.**

***S. Mondello;** L Papa; R Bullock; A Buki; G Brophy; CS Robertson; E Czeiter; FC Tortella; KK Wang; RL Hayes. Outcome Prediction in Brain-Injured Adults: Age, Serum UCH-L1, CT Characteristics and GCS on Admission Are Strong Predictors in the Acute Phase. ATACCC 2010 Conference, 16 - 19 August 2010, St. Pete Beach, Florida. N3.

***S. Mondello;** L Papa; A Buki; R Bullock; G Brophy; CS Robertson; E Czeiter; E Ezer; Justin Blaber; FC Tortella; KK Wang; RL Hayes. Biomarkers and Brain Tissue Oxygenation Monitoring in Patients with Severe Traumatic Brain Injury. ATACCC 2010 Conference, 16 - 19 August 2010, St. Pete Beach, Florida. N4.

***S. Mondello;** A Buki; R Bullock; CS Robertson; E Czeiter; E Ezer; FC Tortella; KK Wang; RL Hayes. Elevated Serum Biomarkers Associated with Increased Intracranial Pressure after Severe Traumatic Brain Injury. ICP 2010- 14th International Conference on Intracranial Pressure And Brain Monitoring: September 12-16, 2010, Tuebingen (Germany).

E Ezer; **S. Mondello;** S.A. Robicsek, A. Gabrielli, G. Brophy, L. Papa, J. Tepas, C. Robertson, G. Robinson, E. Czeiter, A. Buki, R.L. Hayes, K.K.W. Wang. Brain Tissue Oxygenation and Putative Biomarkers In Severe Traumatic Brain Injury. ESICM 2010-23rd Annual Congress of the European Society of Intensive Care Medicine: October 9-13, 2010, Barcelona (Spain). **Intensive Care Medicine 2010, 36(2): S184, Abstract n°0395.**

***S. Mondello;** R Bullock; G Brophy; A Buki; J Streeter; Kara Schmid; FC Tortella; RL Hayes; KK Wang. Microtubule-Associated Protein-2: A New Sensitive and Specific Marker for Traumatic Brain Injury. 40th Critical Care Congress, Society of Critical Care Medicine's, January 15-19, 2011, San Diego, California, USA. **Crit Care Med 2010, 38(12)(Suppl.): U11-U11, Abstract n°36.**

*****Abstract selected for an ORAL PRESENTATION**

*****Abstract selected as a recipient of the 2011 NEUROLOGY SPECIALTY AWARD**

J. A. Demery, N. K. Dixit, **S. Mondello,** C.Carrin, L. Papa, K. K.W. Wang, J. Streeter, and R.L. Hayes. Serum Biomarker Levels Predict Memory Impairment Following Traumatic Brain Injury: A Pilot Study. 39th Annual Meeting International Neuropsychological Society. February 2-5, 2011. Boston, MA, USA. Abstracts Book p. 324.

***S. Mondello;** O Glushakova; R Bullock; J Mo; A Dellarole; Kara Schmid; FC Tortella; KK Wang; RL Hayes. Brain Damage Biomarkers in Cerebral Microdialysate: a Methodological Study. 2011 AANS Annual Meeting, April 9-13, 2011 Denver, CO, USA. **Journal of Neurosurgery. 2011 Aug; 115(2): A459-A459.**

*****Abstract awarded First Place Eposter in the Category of**

Trauma and Critical Care

Printed in the August issue of the **JOURNAL OF NEUROSURGERY**

***S. Mondello;** Steve A. Robicsek; Andras Buki; Kevin K.W. Wang; Ronald L. Hayes; Andrea Gabrielli. Neuronal Injury Serum Biomarker UCH-L1 is a Stronger Predictor of Outcome following Traumatic Brain Injury than Head Computed Tomographic Classifications and Glasgow Coma Scale: Preliminary Considerations. 2011 Celebration of Research Poster Session, March 14, 2011 Hilton UF Conference Center, Gainesville, FL, USA.

***S. Mondello;** Steve A. Robicsek; Andras Buki; Kevin K.W. Wang; Ronald L. Hayes; Andrea Gabrielli. Elevation of Serum Glial and Neuronal Biomarkers after Severe Traumatic Brain Injury is Associated with Increased Intracranial Pressure in the first 24 hours. 2011 Celebration of Research Poster Session, March 14, 2011 Hilton UF Conference Center, Gainesville, FL, USA.

***S. Mondello;** R Bullock; A Buki; A Jeromin; L Papa; Kara Schmid; FC Tortella; KK Wang; RL Hayes. Diffuse Injury and Focal Mass Lesion are associated with Different Biomarker Profiles after severe traumatic brain injury. INTS 2011 Shanghai: 27 April – 1 May. Abstracts Book p. A-8 O20. **Journal of Neurotrauma. May 2011; 28(5): A8-A8. Abstract n° O20.**

***S. Mondello;** A Gabrielli; S Catani; M D'Ippolito; Kara Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. Role of serum biomarkers in individuals in coma or vegetative state after traumatic brain injury. INTS 2011 Shanghai: 27 April – 1 May. Abstracts Book p. A-8 O21. **Journal of Neurotrauma. May 2011; 28(5): A8-A8. Abstract n° O21.**

*****Abstract selected for an ORAL PRESENTATION**

RL Hayes; **S. Mondello;** KK Wang. Clinical studies of the utility of serum biomarkers for the diagnosis, prognosis, and Management of traumatic brain injury. INTS 2011 Shanghai: 27 April – 1 May. Abstracts Book p. A-24 O74. **Journal of Neurotrauma. May 2011; 28(5): A24-A24. Abstract n°O74.**

***** Abstract selected for an ORAL PRESENTATION**

***S. Mondello;** A Gabrielli; S Catani; M D'Ippolito; Kara Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. Predictive value of serum brain biomarker in chronic disorders of consciousness after severe neurotrauma: a case report. 5th European Federation of Neurological Societies (EFNS) Congress, Budapest, Hungary - September 10-13, 2011. **European Journal of Neurology, Sep 2011; 18, Special Issue, Supplement: 313-313. Abstract n°P1670.**

***S. Mondello;** A Gabrielli; S Catani; M D'Ippolito; Kara Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. Chronic sustained elevations of MAP-2 in serum of patients after Traumatic Brain Injury. Biochemical Markers of Brain Damage (BMBD), Lund, Sweden - May 9-11, 2011.

*****Abstract selected for an ORAL PRESENTATION**

K Schmid; A Buki; E Czeiter; FC Tortella; KK Wang; RL Hayes. ***S. Mondello**. Correlation between brain biomarkers and brain tissue oxygenation in patients with traumatic brain injury. Biochemical Markers of Brain Damage (BMBD), Lund, Sweden - May 9-11, 2011.

*****Abstract selected for an ORAL PRESENTATION**

A Jeromin; **S. Mondello**; R Bullock; A Buki; J Mo Sweaney, J Streeter; K Schmid; FC Tortella; RL Hayes; KK Wang. Interstitial brain injury biomarkers and inflammatory mediators following severe human traumatic brain injury. Biochemical Markers of Brain Damage (BMBD), Lund, Sweden - May 9-11, 2011.

*****Abstract selected for an ORAL PRESENTATION**

***S. Mondello**, A. Jeromin, R. Bullock, J. Mo Sweaney, J. Streeter, K Schmid, FC Tortella, R. Hayes, K.K. Wang. In vivo monitoring of cytokines and brain biomarker damage following severe traumatic brain injury: a microdialysis study. NNS 2011: The 29th Annual National Neurotrauma Symposium, Fort Lauderdale, July 10-13, 2011, Florida, USA. **Journal of Neurotrauma. Jun 2011; 28(6): A84-A84. Abstract n° P228.**

***S. Mondello**; A Gabrielli; S Catani; M D'Ippolito; K Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. MAP-2 concentration in serum of patients after Traumatic Brain Injury: Insight into the Pathophysiological Mechanisms of the Chronic Phase. NNS 2011: The 29th Annual National Neurotrauma Symposium, Fort Lauderdale, July 10-13, 2011, Florida, USA. **Journal of Neurotrauma. Jun 2011; 28(6): A83-A84. Abstract n° P227.**

S. Yokobori, R. Bullock, S. Gajavelli, **S.Mondello**, J. Mo Sweaney, D. Scharf, K. K.W. Wang, R. L. Hayes, A. Sakurai, S.Tomura, H. Bramlett, D.Dietrich. Preoperative-induced mild hypothermia attenuates brain biomarkers in a rat subdural hematoma model. NNS 2011: The 29th Annual National Neurotrauma Symposium, Fort Lauderdale, July 10-13, 2011, Florida, USA. **Journal of Neurotrauma. Jun 2011; 28(6): A95-A95. Abstract n° P262.**

G Brophy, **S Mondello**, L Papa, S. Robicsek, A. Gabrielli, J. Tepas, A. Buki, C. Robertson, FC Tortella, K. Wang, R. Hayes. Quantitative cerebrospinal fluid biokinetic parameters of alpha II-spectrin breakdown products in severe traumatic brain injury patients. NNS 2011: The 29th Annual National Neurotrauma Symposium, Fort Lauderdale, July 10-13, 2011, Florida, USA. **Journal of Neurotrauma. Jun 2011; 28(6): A114-A114. Abstract n° P317.**

L. Papa, L Lewis, J Falk, J Demery, G. Brophy, M Liu, J Mo, **S. Mondello**, K Schmid, C. Robertson, F. Tortella, R. Hayes, K. Wang. Serum levels of uch-l1 distinguishes mild and moderate traumatic brain injury from trauma controls and is associated with lesions on computed tomography. NNS 2011: The 29th Annual National Neurotrauma Symposium, Fort Lauderdale, July 10-13, 2011, Florida, USA. **Journal of Neurotrauma. Jun 2011; 28(6): A5-A5. Abstract n°OC10.**

Ferguson I, Lewis L, Papa L, Wang K, **Mondello S**, Hayes R. Neuronal Biomarkers May Require Age-Adjusted Norms. American College Emergency Physicians (ACEP) Scientific Assembly, 15-

16 October 2011. **Annals of Emergency Medicine, Oct 2011, 58 (4) Supplement: S213-S213. Abstract n°106.**

***S. Mondello;** Steve A. Robicsek; Andras Buki; Kevin K.W. Wang; Ronald L. Hayes; Andrea Gabrielli. Elevation of Serum Glial and Neuronal Biomarkers after Severe Traumatic Brain Injury is Associated with Increased Intracranial Pressure in the first 24 hours. American Society of Anesthesiologists, ASA, Anesthesiology 2011, Chicago, IL, October 15-19, USA. Abstract n°A1017.

A. Gabrielli; A. Buki; E. Czeiter; K. Schmid; F. Tortella; K. K.W. Wang; R. L. Hayes; ***S. Mondello.** Brain damage biomarkers are correlated to brain tissue oxygenation in patients with severe traumatic brain injury: a case series. ESICM 2011- 24th Annual Congress of the European Society of Intensive Care Medicine: October 01-05, 2011, Berlin (Germany). **Intensive Care Medicine 2011, 37 (Supplement 1): S236. Abstract n°0923.**

***S. Mondello,** E. Czeiter, N. Kovacs, A. Gabrielli, K.K.W. Wang, R.L. Hayes, A. Buki. UCH-L1 is stronger predictor of outcome following traumatic brain injury than computed tomographic classifications and Glasgow Coma Scale: preliminary considerations. The 14th European Congress of Neurosurgery (EANS 2011), October 9-14, 2011, Rome, (Italy). **Acta Neurochirurgica 2011, 153: 1882. Abstract n°1349.**
*****Abstract selected for an ORAL PRESENTATION**

E. Czeiter, **S. Mondello,** N. Kovacs, J. Sandor, E. Ezer, P. Barzo, A. Gabrielli, K.K.W. Wang, R.L. Hayes, T. Doczi, A. Buki. Brain injury biomarkers may improve the predictive power of the impact outcome calculator. The 14th European Congress of Neurosurgery (EANS 2011), October 9-14, 2011, Rome, (Italy). **Acta Neurochirurgica 2011, 153: 1882. Abstract n°1349.**
*****Abstract selected for an ORAL PRESENTATION**

***S. Mondello;** A. Dellarole; R. Bullock; A. Gabrielli; D. Antonio; K Schmid; FC Tortella; KK Wang; RL Hayes. Neuronal and Glial Markers in Microdialysate after Traumatic and Hypoxemic Brain Injury in Rats. XIV Congress of the European Shock Society Taormina, Giardini Naxos, August 31, September 2, 2011. **Shock 2011, 36(7) Suppl 2: 25, Abstract n°62.**
*****Abstract selected for an ORAL PRESENTATION**
*****Abstract selected as a recipient of the NEW INVESTIGATOR AWARDS**

A. Ahmad, **S. Mondello,** R. Di Paola, E. Mazzon, E. Esposito, M.A. Catania, D. Italiano, P. Mondello, C. Aloisi, S. Cuzzocrea. Effects of Apocynin, a NADPH-Oxidase Inhibitor, in Contrast-Induced Nephropathy. XIV Congress of the European Shock Society Taormina, Giardini Naxos, August 31, September 2, 2011. **Shock 2011, 36(7) Suppl 2: 7, Abstract n°02.**

S. Yokobori, R. Bullock, S. Gajavelli, S.Mondello, K.K.W. Wang, R.L. Hayes, A. Sakurai, S.Tomura, H. Bramlett, D.Dietrich. Preoperative-induced mild hypothermia attenuates neuronal damage in a rat subdural hematoma model. The XVth International Symposium of Brain Edema and Cellular Injury,

2011, Oct. 22-24, 2011, Tokyo.

***S. Mondello;** A Gabrielli; A Jeromin; S Catani; M D'Ippolito; FC Tortella; K Schmid; KK Wang; RL Hayes; R Formisano. MAP-2 in serum of Survivors at 6 Months after Severe Traumatic Brain Injury Correlates with Outcome. 2011 Annual Meeting - Neurocritical Care Society, Sept. 21-24, 2011, Montreal. **Neurocritical Care 2011, 15 (Suppl 2):S146. Abstract n°117.**

***S. Mondello;** A Dellarole; R Bullock; A Jeromin; K Schmid; FC Tortella; KK Wang; RL Hayes. Neuronal and Glial Markers in Microdialysate after Traumatic and Hypoxemic Brain Injury: an Experimental Study. 2011 Annual Meeting - Neurocritical Care Society, Sept. 21-24, 2011, Montreal. **Neurocritical Care 2011, 15 (Suppl 2):S235. Abstract n°206.**

***S. Mondello;** A Jeromin; J. Streeter; A Gabrielli; K Schmid; FC Tortella; KK Wang; RL Hayes. Glial Fibrillary Acidic Protein, a Sensitive and Specific Marker in Serum for the Identification of Intracerebral Hemorrhage in Acute Stroke Patients: Results of Improved Assay Performance. American Heart Association. November 12-16, 2011, Orlando, Florida. **Circulation. 124:A13492.**

*****Abstract selected for an ORAL PRESENTATION**

***S. Mondello;** A Buki; E Czeiter; A Jeromin; A Gabrielli; K Schmid; FC Tortella; KK Wang; RL Hayes. Analyses of Brain Damage Biomarkers in Patients with Penetrating Brain Injury: A Case Series Study. 41th Critical Care Congress, Society of Critical Care Medicine's, February 4-8, 2012, Houston, Texas, USA. **Crit Care Med 2011 Vol. 39, No. 12 (Suppl.) Abstract n°306.**

***S. Mondello;** A Gabrielli; S Catani; M D'Ippolito; JM Seane; K Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. Serum MAP-2 levels at 6 months after Severe Traumatic Brain Injury Correlate with Outcome. Ninth International Brain Injury Association (IBIA) World Congress, March 22-25, 2012, Edinburgh, Scotland. **Brain Injury 2012, Vol. 26, No. 4-5: 309-799. Abstract n°0781**

***S. Mondello;** A Jeromin; JM Seane; T Cram; K Schmid; FC Tortella; RL Hayes. Glial Neuronal Ratio (GNR): a Novel Index for Differentiating Injury Type in Patients with Severe Traumatic Brain Injury. 2nd Annual Traumatic Brain Injury Conference, March 6-7, 2012, Washington, D.C., USA

***S. Mondello;** B Yang; S Zoltewicz; A Gabrielli; S Catani; M D'Ippolito; JM Seane; K Schmid; FC Tortella; KK Wang; RL Hayes; R Formisano. Persistent vegetative state following severe traumatic brain injury (GCS \leq 8) is associated with brain-reactive antibodies in serum. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A134-A134. Abstract n° C16.**

S Yokobori, R Bullock, S Gajavelli, **S Mondello**, KKW Wang, RL Hayes, H Bramlett, D Dietrich. Early induced hypothermia attenuates reperfusion neuronal and subsequent glial damages in a rat

subdural hematoma model : a microdialysis study. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A149-A150. Abstract n° C46.**

PM. Kochanek, HM. Bramlett, CE Dixon, DA Shear, **S Mondello**, K Schmid, WD Dietrich, KK. Wang, RL Hayes, JJ Povlishock, and FC Tortella. Cross model comparison of behavior, neuropathology, and acute serum biomarkers after controlled cortical impact, parasagittal fluid percussion, and penetrating ballistic-like brain injury: Results from Operation Brain Trauma Therapy. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A23-A23. Abstract n° OT04.**

*****Abstract selected for an ORAL PRESENTATION**

S Zoltewicz, C Ren, J Guingab, B Yang, F Kobeissy, J Anagli, J Mo-Seaney, D Scharf, S Mondello, Y Ding, X Ji, RL Hayes, J Streeter. Using biomarkers to distinguishing between ischemic and hemorrhagic stroke in rats. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A177- A177. Abstract n° D06.**

S Mondello*, PM. Kochanek, HM. Bramlett, CE Dixon, DA Shear, K Schmid, WD Dietrich, KK. Wang, RL Hayes, JJ Povlishock, and FC Tortella. Differential Effect of Nicotinamide on Circulating Damage Marker Profiles Following Controlled Cortical Impact, Parasagittal Fluid Percussion, and Penetrating Ballistic-Like Brain Injury: Results from Operation Brain Trauma Therapy. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A48-A48. Abstract n° A42.**

HY Yan, PM. Kochanek, **S Mondello**, XC Ma, J Henchir, M Xu, K Janesko-Feldman, RL Hayes, KK. Wang, CE Dixon. Effect of nicotinamide on behavioral, neuropathological, and biomarker outcomes after controlled cortical impact in rats: an Operation Brain Trauma Therapy Consortium Study. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A58-A58. Abstract n° A59.**

OY Glushakova, A Jeromin, D Johnson, J Martinez, RL Hayes, **S Mondello***. CSF protein biomarker panel for assessment of neurotoxicity. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A196-A196. Abstract n° D42.**

Wang, KKW; Robicsek, S; Robertson, C; Brophy, GM; Gabrielli, A; Hannay, HJ; Heaton, S; Hayes, R; **Mondello, S**; Schmalfluss, I; Papa, L. ASSESSING A NECROSIS AND APOPTOSIS INDEX USING CSF alpha II-SPECTRIN BREAKDOWN PRODUCT LEVELS IN SEVERE TBI. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A93-A93.**

Abstract n° AB32.

S Robicsek, L Papa, S Heaton, HJ Hannay, A Gabrielli, K Wang, GM Brophy, I Schmalfluss, **S Mondello**, RL Hayes, C Robertson. PREDICTING POOR 6-MONTH OUTCOME IN SEVERE TBI USING THE IMPACT SCORE AND EARLY CSF BIOMARKERS. The 30th Annual National Neurotrauma Society Meeting, July 22-25, 2012, Phoenix, Arizona, USA. **Journal of Neurotrauma. 29(10): A94-A94. Abstract n° AB33.**

PM Kochanek, HM. Bramlett, CE Dixon, DA Shear, **S Mondello**, K Schmid, WD Dietrich, KK. Wang, RL Hayes, JJ Povlishock, and FC Tortella. Cross model comparison of behavior, neuropathology, and acute serum biomarkers after controlled cortical impact, parasagittal fluid percussion, and penetrating ballistic-like brain injury: Results from Operation Brain Trauma Therapy. MHSRS/ATACCC. The 2012 Military Health System Research Symposium, 13-16 August 2012, Fort Lauderdale, Florida, USA.

S Mondello*, PM. Kochanek, HM. Bramlett, CE Dixon, DA Shear, K Schmid, WD Dietrich, KK. Wang, RL Hayes, JJ Povlishock, and FC Tortella. Differential Effect of Nicotinamide on Circulating Damage Marker Profiles Following Controlled Cortical Impact, Parasagittal Fluid Percussion, and Penetrating Ballistic-Like Brain Injury: Results from Operation Brain Trauma Therapy. MHSRS/ATACCC. The 2012 Military Health System Research Symposium, 13-16 August 2012, Fort Lauderdale, Florida, USA.

S Mondello*, R Constantinescu, H Zetterberg, B Holmberg, A Jeromin. UCHL-1 Levels in Cerebrospinal Fluid of Patients with Parkinson's Disease and Atypical Parkinsonian Disorders. Biomarkers for Brain Disorders: Challenges and Opportunities. Møller Centre, Churchill College, Cambridge, UK, 3-5 February 2013.

R Constantinescu, **S Mondello**, L Khadim, A Jeromin. Alpha-synuclein Levels in the Cerebrospinal Fluid of Patients with Parkinson's Disease and Atypical Parkinsonian Disorders. 17th International Congress of Parkinson's Disease and Movement Disorders, June 16 - 20, 2013 in Sydney, Australia. **Movement Disorders 2013; 28 Suppl 1:894.**

*****Abstract presented at the Blue Ribbon Highlights Session by Matthew B. Stern**

***S Mondello**, Buki A, Italiano D, Jeromin A. CSF ALPHA-SYNUCLEIN TEMPORAL PROFILES CORRELATE WITH OUTCOME IN PATIENTS WITH SEVERE TRAUMATIC BRAIN INJURY. 3rd Annual Traumatic Brain Injury Conference, Washington, DC, March 6-7, 2013.

Glushakova OY, **Mondello S**, Johnson D, Heldermon C, Streeter J, Hayes RL. Protein Biomarker Panel of Cisplatin-Induced Neurotoxicity in a Preclinical Model. SOT 52nd Annual Meeting, (Society of Toxicology), March 10-14, 2013, San Antonio,

Texas.

* **S Mondello**, Buki A, Italiano D, Jeromin A. CSF ALPHA-SYNUCLEIN TEMPORAL PROFILES PREDICT OUTCOME AFTER SEVERE TRAUMATIC BRAIN INJURY. BRAIN 2013, XXVIth International Symposium on Cerebral Blood Flow, Metabolism and Function & XIth International Conference on Quantification of Brain Function with PET, Shanghai, China, May 20-23, 2013

***Mondello S**, Buki A, Italiano D, Tomasello F, Jeromin A. AMYLOID- β IN CSF PREDICT NEUROLOGICAL STATUS AND MORTALITY AFTER SEVERE TRAUMATIC BRAIN INJURY: RESULTS OF A PILOT STUDY. XXI World Congress of Neurology (WCN2013), Vienna, Austria, September 21–26, 2013.

***Mondello S**, Italiano D, Jeromin A, Hayes R, Tomasello F. SERUM GLIAL FIBRILLARY ACIDIC PROTEIN AS A SENSITIVE AND SPECIFIC MARKER FOR THE IDENTIFICATION OF INTRACEREBRAL HEMORRHAGE IN ACUTE STROKE PATIENTS: RESULTS OF IMPROVED ASSAY PERFORMANCE. 114° CONGRESSO NAZIONALE. Società Italiana di Medicina Interna (SIMI), ROMA, 26-28 OTTOBRE 2013. **Internal and Emergency Medicine (2014); 8 (Suppl): 194.**

***Mondello S**, Italiano D, Jeromin A, Hayes R, Tomasello F. Novel Sensitive Assay Improves Diagnostic Accuracy of Serum GFAP for the Identification of Intracerebral Hemorrhage in Acute Stroke Patients. The 12th European Congress of Internal Medicine, which will take place in Prague Congress Centre, Czech Republic, from October 2-5, 2013.

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Buki A, Italiano D, Tomasello F, Jeromin A. CSF and Plasma Amyloid- β Temporal Profiles and Relationships with Neurological Status and Mortality after Severe Traumatic Brain Injury: Results of a Pilot Study. ESICM LIVES 2013, 26th Annual Congress, Paris, France, 5-9 October 2013. **Intensive Care Medicine; 39 Supplement 2: 0903.**

*****Abstract selected for an ORAL PRESENTATION**

Bokshan S, Leonard JR, **Mondello S**, Hayes RL, Limbrick D, Bruce CT, Berger R, Pineda JA. BIOMARKERS OF PRIMARY INJURY AND SECONDARY INJURY DUE TO INCREASED INTRACRANIAL PRESSURE IN PEDIATRIC HEAD TRAUMA. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A70-A70. Abstract n° B118.**

Kou Z, **Mondello S**, Gattu R, Welch R, Ayaz S, Kas-Shamoun R, Mika V, Wu B, Haacke EM, Hayes RL. MAGNETIC RESONANCE IMAGING AND BLOOD PROTEIN MARKERS OF MILD TRAUMATIC BRAIN INJURY AT THE ACUTE STAGE. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A115-A115. Abstract n° C131.**

Bramlett HM, Furones-Alonso O, Sanchez-Molano J, Sequeira D, Moreno W, Wang KK, **Mondello S**, Hayes RL, Dietrich WD. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF ERYTHROPOIETIN IN THE MIAMI FLUID PERCUSSION MODEL OF TRAUMATIC BRAIN INJURY. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A156-A156. Abstract n° D138.**

Bramlett HM, Furones-Alonso O, Sanchez-Molano J, Sequeira D, Moreno W, Wang KK, **Mondello S**, Hayes RL, Dietrich WD. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF CYCLOSPORINE A IN THE MIAMI FLUID PERCUSSION MODEL OF TRAUMATIC BRAIN INJURY. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A158-A158. Abstract n° D142.**

Dixon CE, Yan HQ, Ma X, **Mondello S**, Empey PE, Poloyac SM, Janesko-Feldman K, Wang, RL Hayes, Kochanek PM. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF CYCLOSPORINE A IN THE PITTSBURGH CONTROLLED CORTICAL IMPACT MODEL OF TRAUMATIC BRAIN INJURY. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A159-A159. Abstract n° D143.**

Dixon CE, Yan HQ, Ma X, **Mondello S**, Empey PE, Poloyac SM, Janesko-Feldman K, Wang, RL Hayes, Kochanek PM. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF ERYTHROPOIETIN IN THE PITTSBURGH CONTROLLED CORTICAL IMPACT MODEL OF TRAUMATIC BRAIN INJURY. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A159-A160. Abstract n° D144.**

***Mondello S**, Bramlett HM, Dixon CE, Shear DA, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. CHARACTERIZATION OF TBI MODELS AND EVALUATION OF THE THERAPEUTIC EFFICACY OF NICOTINAMIDE, ERYTHROPOIETIN AND CYCLOSPORINE A USING BIOCHEMICAL MARKERS OF BRAIN INJURY: RESULTS FROM OPERATION BRAIN TRAUMA THERAPY. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. **Journal of Neurotrauma. Aug 2013; 30: A167-A167. Abstract n° D154.**

Shear DA, Deng-Bryant Y, Pedersen R, Sun J, **Mondello S**, Wang KK, Hayes RL, Schmid K, Tortella FC. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF CYCLOSPORINE A IN THE WRAIR PENETRATING BALLISTIC-LIKE BRAIN INJURY (PBBI) MODEL. The 31th Annual National Neurotrauma Society

Meeting, August 4–7, 2013, Nashville, Tennessee, USA. *Journal of Neurotrauma*. Aug 2013; 30: A170-A171. **Abstract n° D164.**

Shear DA, Deng-Bryant Y, Pedersen R, Sun J, **Mondello S**, Wang KK, Hayes RL, Schmid K, Tortella FC. OPERATION BRAIN TRAUMA THERAPY CONSORTIUM: DOSE-RESPONSE EVALUATION OF ERYTHROPOIETIN IN THE WRAIR PENETRATING BALLISTIC-LIKE BRAIN INJURY (PBBI) MODEL. The 31th Annual National Neurotrauma Society Meeting, August 4–7, 2013, Nashville, Tennessee, USA. *Journal of Neurotrauma*. Aug 2013; 30: A171-A171. **Abstract n° D165.**

***Mondello S**, Bramlett HM, Dixon CE, Shear DA, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Characterization of TBI Models and Evaluation of Efficacy of Nicotinamide, Erythropoietin, and Cyclosporine-A using Serum Biomarkers: Results from Operation Brain Trauma Therapy. MHSRS - The 2013 meeting of the Medical Health Service Research Symposium, 12-15 August 2013, Fort Lauderdale, Florida, USA.

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Bramlett HM, Dixon CE, Shear DA, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Characterization of TBI Models and Evaluation of Efficacy of Nicotinamide, Erythropoietin, and Cyclosporine-A using Serum Biomarkers: Results from Operation Brain Trauma Therapy. INTS 2014 - The 11th Symposium of the International Neurotrauma Society. Budapest, Hungary. 19- 23 March, 2014. *Journal of Neurotrauma*. March 2014; 31(5): A35-A35. **Abstract n 114.**

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Bramlett HM, Dixon CE, Shear DA, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Characterization of TBI Models and Evaluation of Efficacy of Nicotinamide, Erythropoietin, and Cyclosporine-A using Serum Biomarkers: Results from Operation Brain Trauma Therapy. INTS 2014 - The 11th Symposium of the International Neurotrauma Society. Budapest, Hungary. 19- 23 March, 2014. *Journal of Neurotrauma*. March 2014; 31(5): A34-A34. **Abstract n 113.**

S. Hellewell, **S. Mondello**, A. Conquest, S. Vallance, J. Board, D. J. Cooper, M.C. Morganti-Kossmann Measurement of biomarkers of brain damage in TBI patients recruited to the EPO-TBI randomised clinical trial. INTS 2014 - The 11th Symposium of the International Neurotrauma Society. Budapest, Hungary. 19- 23 March, 2014. *Journal of Neurotrauma*. March 2014; 31(5): A34-A34. **Abstract n 113.**

***Mondello S.**; K Schmid; FC Tortella; L Glass. Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial. 4th Annual Traumatic Brain Injury

Conference, March 16-17, 2014, Washington, D.C., USA

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Buki A, Randall J, Provuncher J, Hanlon D, Wilson D, Jeromin A. Temporal Profiles of CSF and Plasma Amyloid- β in Patients with Severe Traumatic Brain Injury: Relationships with Neurological Status and Mortality. 4th Annual Traumatic Brain Injury Conference, March 16-17, 2014, Washington, D.C., USA

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Comparison of TBI Models Using Brain Damage Markers, and Histological and Behavioural Outcomes in Operation Brain Trauma Therapy. The 32nd Annual National Neurotrauma Symposium, June 29-July 2, 2014, San Francisco, California. **Journal of Neurotrauma. June 2014; 31(12): A120-A120. Abstract n D2-21.**

Kochanek PM, Bramlett HM, Shear DA, Dixon CE, Dietrich WD, Poloyac S, Empey P, **Mondello S**, Wang KK, Hayes RL, Povlishock JT, Tortella FC. MULTICENTER COMPARISON OF FIVE THERAPIES ACROSS THREE RAT MODELS OF TBI REVEALS THERAPEUTIC POTENTIAL FOR LEVETIRACETAM: STUDIES FROM OPERATION BRAIN TRAUMA THERAPY. The 32nd Annual National Neurotrauma Symposium, June 29-July 2, 2014, San Francisco, California. **Journal of Neurotrauma. June 2014; 31(12): A105-A105. Abstract n D1-14.**

Huang X, Glushakova O, **Mondello S**, Van, K, Hayes RL, Lyeth B. GFAP FRAGMENT BIOMARKERS AFTER TBI: EVIDENCE FOR ACUTE ASTROCYTE PATHOLOGY. The 32nd Annual National Neurotrauma Symposium, June 29-July 2, 2014, San Francisco, California. **Journal of Neurotrauma. June 2014; 31(12): A33-A33. Abstract n A4-01.**

Kochanek PM, Bramlett HM, Shear DA, Dixon CE, Dietrich WD, Poloyac S, Empey P, **Mondello S**, Wang KK, Hayes RL, Povlishock JT, Tortella FC. MULTICENTER COMPARISON OF FIVE THERAPIES ACROSS THREE RAT MODELS OF TBI REVEALS THERAPEUTIC POTENTIAL FOR LEVETIRACETAM: STUDIES FROM OPERATION BRAIN TRAUMA THERAPY. MHSRS/ATACCC. The 2014 Military Health System Research Symposium, 18-21 August 2014, Fort Lauderdale, Florida, USA.

***Mondello S.**; K Schmid; FC Tortella; L Glass. Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial. MHSRS/ATACCC. The 2014 Military Health System Research Symposium, 18-21 August 2014, Fort Lauderdale, Florida, USA.

*****Abstract selected for an ORAL PRESENTATION**

*****Abstract selected for the Young Investigator (YI) Competition**

***Mondello S.**; K Schmid; FC Tortella; L Glass. Clinical Utility of Brain Injury Markers in TBI Clinical Trials: Findings from the INTREPID2566 Trial. 44th Critical Care Congress, January 17-21, 2015, Phoenix, Arizona, USA. **Crit Care Med 2014 Vol. 42, No.12 (suppl): A1494. Abstract n°558. doi: 10.1097/01.ccm.0000458055.62213.99**

S. Messina, M. Russo, C. Profazio, S. La Foresta, **S. Mondello**, G.L. Vita, M. Sframeli, M.G. Di Stefano, M. La Rosa, C. Barcellona, C. Faraone, C. Rodolico, A. Toscano, P. Ruggeri, G. Vita. FATTORI PREDITTIVI DELLA TOLLERANZA ALLA VENTILAZIONE NON INVASIVA NELLA SCLEROSI LATERALE AMIOTROFICA. Congresso SIN Sicilia, 12-13 Dicembre 2014, Messina, Italy.

***Mondello S**, Bowser R, Vestri A, Madorsky I, Deng J, Kobeissy F, Jeromin A, Shaw G. Differential Patterns of Release of Biomarkers of Brain Injury are Associated with Different Types of Lesion after Mild Traumatic Brain Injury. Biomarkers for Brain Disorders - WT Scientific conferences. Biomarkers for Brain Disorders: Challenges and Opportunities. 1-3 February 2015. Wellcome Trust Genome Campus, Hinxton, Cambridge, UK.

***Mondello S**, Kobeissy F, Vestri A, Hayes RL, Kochanek PM, Berger RP. Serum concentrations of Ubiquitin C-Terminal Hydrolase-L1 and Glial Fibrillary Acidic Protein after Pediatric TBI. International Conference on Paediatric Acquired Brain Injury. 16-18 September, 2015, Liverpool, England.

Theelin E, Jeppsson E, Nelson D, **Mondello S**, Svensson M, Bellander B. NEURON-SPECIFIC ENOLASE IS SIGNIFICANTLY CORRELATED TO OUTCOME POST TRAUMATIC BRAIN INJURY, ALBEIT NOT IN PRESENCE OF SERUM S100B. Neurotrauma Symposium, 2015 Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico. **Journal of Neurotrauma. June 15, 2015, 32(12): A30-A30. Abstract n A5-04.**

Halford J Itamura K, Levine J, Loo J, Glenn T, Hovda D, Bullock R, Dietrich D, **Mondello S**, Wanner I. A NEW PANEL OF HUMAN ASTROGLIAL NEUROTRAUMA BIOMARKERS AND TRAUMA RELEASE MECHANISMS Neurotrauma Symposium, 2015 Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico. **Journal of Neurotrauma. June 15, 2015, 32(12): A33-A33. Abstract n A5-11.**

***Mondello S**, Browning M, Shear DA, Bramlett HM, Dixon CE, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Biomarker Profiles Support a Neuroprotective Effect of Levetiracetam in TBI: findings from Operation Brain Trauma Therapy. Neurotrauma Symposium, 2015 Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico. **Journal of Neurotrauma. June 15, 2015, 32(12): A118-A119. Abstract n D8-16.**

Osier N, Yan HQ, Ma X, **Mondello S**, Empey P, Poloyac S, Feldman K, Wang K, Hayes R, Kochanek PM, Dixon CE. EVALUATION OF KOLLIDON VA-64 IN THE CONTROLLED CORTICAL IMPACT MODEL OF TRAUMATIC BRAIN INJURY: AN OBTT CONSORTIUM STUDY. Neurotrauma Symposium, 2015

Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico.
**Journal of Neurotrauma. June 15, 2015, 32(12): A120-A120.
Abstract n D8-19.**

Cadle K, **Mondello S**, Gilsdorf J, Tortella F, Shear D. EVALUATION OF KOLLIDON VA64 IN THE WRAIR PBBI MODEL: STUDIES FROM THE OPERATION BRAIN TRAUMA THERAPY (OBTT) CONSORTIUM. Neurotrauma Symposium, 2015 Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico. **Journal of Neurotrauma. June 15, 2015, 32(12): A121-A121. Abstract n D8-23.**

Deng-Bryant Y, **Mondello S**, Leung L, Gilsdorf J, Pedersen R, Sun J, Flerlage W, Tortella FC, Shear DA. Evaluation of Glibenclamide in the WRAIR PBBI Model: Studies from the Operation Brain Trauma Therapy (OBTT) Consortium. Neurotrauma Symposium, 2015 Symposium. June 28 - July 1, 2015. Santa Fe, New Mexico. **Journal of Neurotrauma. June 15, 2015, 32(12): A122-A122. Abstract n D8-26.**

***Mondello S**, Browning M, Shear DA, Bramlett HM, Dixon CE, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Biomarker Profiles Support a Neuroprotective Effect of Levetiracetam in TBI: findings from Operation Brain Trauma Therapy. Biomarker profiles support a neuroprotective effect of Levetiracetam in TBI: findings from Operation Brain Trauma Therapy. MHSRS/ATACCC. The 2015 Military Health System Research Symposium, 17-20 August 2015, Fort Lauderdale, Florida, USA.

*****Abstract selected for an ORAL PRESENTATION**

Cadle K, **Mondello S**, J Gidford, Tortella FC, Shear DA. Evaluation of Kollidon VA64 in the WRAIR PBBI Model: Studies from the Operation Brain Trauma Therapy. MHSRS/ATACCC. The 2015 Military Health System Research Symposium, 17-20 August 2015, Fort Lauderdale, Florida, USA. MHSRS-15-0356.

*****Abstract selected as best poster (1st place) session.**

Deng-Bryant Y, **Mondello S**, Leung L, Gilsdorf J, Tortella FC, Shear DA. Evaluation of Glibenclamide in the WRAIR PBBI Model: Studies from the Operation Brain Trauma Therapy (OBTT) Consortium. MHSRS/ATACCC. The 2015 Military Health System Research Symposium, 17-20 August 2015, Fort Lauderdale, Florida, USA. MHSRS-15-0702.

Wanner IB, Halford J, Itamura K, Levine J, Shen S, Loo JA, Glenn TC, **Mondello S**, Dietrich DW, Barazani K, Gigliotti A, Mayer AW. Acute traumatic injury to human and porcine astrocytes associates with new biomarker release and proteolytic cleavage. Neuroscience 2015 - Society for Neuroscience, Oct.17-21, Chicago, Illinois, USA.

Toscano A, Montagnese E, Granata F, Rodolico C, **Mondello S**, Cucinotta M, Ciranni A, Longo M, Musumeci O. Intracranial arterial abnormalities in patients with late onset Pompe disease. NEUROMUSCULAR DISORDERS 25(2): S190-S190. Abstract n G.P.13.

***Mondello S**, Xanthopoulos P, Korenkevych D, Mujahid SN, Czeiter E, Barzo P, Tortella FC, Hayes RL, Pardalos P, Buki A. Multimodal Monitoring And Outcome Prediction After Traumatic Brain Injury Using Support Vector Machines. 12th Symposium of the International Neurotrauma Society (INTS), 1-4 February 2016, Cape Town, South Africa.

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. The Potential Utility of Brain Injury Biomarker In Pre-clinical Drug Screening By Operation Brain Trauma Therapy. 12th Symposium of the International Neurotrauma Society (INTS), 1-4 February 2016, Cape Town, South Africa.

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Czeiter E, Sorinola A, Vámos Z, Synnot A, Sándor J, Wang K.K.W., Menon D.K., Maas A. I.R., Buki A. Circulating Brain Damage Markers For The Diagnosis And Outcome Prediction Of Traumatic Brain Injuries. 12th Symposium of the International Neurotrauma Society (INTS), 1-4 February 2016, Cape Town, South Africa.

z*Abstract selected for an ORAL PRESENTATION**

Hellewell, S., **Mondello, S.**, Conquest, A., Bellomo, R., Cooper, J., Vallance, S., Board, J., Morganti-Kossmann, C. Assessing the clinical utility and theragnostic potentials of biomarkers of traumatic brain injury: findings from the EPO-TBI clinical trial. 12th Symposium of the International Neurotrauma Society (INTS), 1-4 February 2016, Cape Town, South Africa.

Synnot, A, Gruen RL, Cnossen MC, Brazinova A, **Mondello S**, McFadyen C, Thomas J, Shemilt I, Parkhill A, Donoghue E, Menon D, Maas AI. *Operationalising Living Systematic Reviews: lessons from a large-scale pilot in traumatic brain injury*. 24th Cochrane Colloquium, 23 - 27 October, 2016, Seoul, South Korea.

*****Abstract selected for LONG ORAL PRESENTATION**

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Schmid K, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. Differential Release Kinetics of Brain Injury Biomarkers across TBI Models: Findings from Operation Brain Trauma Therapy. MHSRS/ATACCC. The 2016 Military Health System Research Symposium, 15-18 August 2016, Orlando/Kissimmee, Florida, USA.

Kochanek PM, Bramlett HM, Dixon CE, Shear DA, Dietrich WD, **Mondello S**, Hayes RL, Wang KK, Povlishock J, Lafrenaye A, Tortella FC,. OPERATION BRAIN TRAUMA THERAPY: SYNOPSIS OF THE FIRST NINE THERAPIES IN MULTI-CENTER PRE-CLINICAL DRUG SCREENING. MHSRS/ATACCC. The 2016 Military Health System Research Symposium, 15-18 August 2016, Orlando/Kissimmee, Florida, USA.

*****Abstract selected for an ORAL PRESENTATION**

Rising S, Pedersen R, Sun J, Browning J, Gilsdorf J, Tortella F, **Mondello S**, Shear D. Dose-response evaluation of amantadine in the WRAIR PBBI model: studies from the Operation Brain Trauma Therapy (OBTT) consortium. MHSRS/ATACCC. The 2016 Military Health System Research Symposium, 15-18 August 2016, Orlando/Kissimmee, Florida, USA.

Browning J, Deng-Bryant Y, Madathil S, Pedersen R, Sun J, Hahn J, Gilsdorf J, Tortella F, **Mondello S**, Shear D. EVALUATION OF AER-271 IN THE WRAIR PBBI MODEL: STUDIES FROM THE OPERATION BRAIN TRAUMA THERAPY CONSORTIUM. Neurotrauma Symposium, 2016 Symposium. 26 – 29 June, 2016. Lexington, Kentucky. **Journal of Neurotrauma. June 2016, 33(13): A64-A64. Abstract n PSA-145.**

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Dietrich WD, Wang KK, Hayes RL, Tortella FC, Kochanek PM. TIME COURSE OF BRAIN INJURY BIOMARKERS ACROSS TBI MODELS: FINDINGS FROM OPERATION BRAIN TRAUMA THERAPY. Neurotrauma Symposium, 2016 Symposium. 26 – 29 June, 2016. Lexington, Kentucky. **Journal of Neurotrauma. June 2016, 33(13): A64-A64. A83-A83. Abstract n PSB-196.**

Okada-Rising S, Pedersen R, Sun J, Browning J, Gilsdorf J, Tortella F, **Mondello S**, Shear D. DOSE-RESPONSE EVALUATION OF AMANTADINE IN THE WRAIR PBBI MODEL: STUDIES FROM THE OPERATION BRAIN TRAUMA THERAPY (OBTT) CONSORTIUM. Neurotrauma Symposium, 2016 Symposium. 26 – 29 June, 2016. Lexington, Kentucky. **Journal of Neurotrauma. June 2016, 33(13): A64-A64. A127-A127. Abstract n PSB-320.**

Kochanek PM, Bramlett HM, Dixon CE, Shear DA, Dietrich WD, **Mondello S**, Hayes RL, Wang KK, Povlishock J, Lafrenaye A, Tortella FC,. OPERATION BRAIN TRAUMA THERAPY: SYNOPSIS OF THE FIRST NINE THERAPIES IN MULTI-CENTER PRE-CLINICAL DRUG SCREENING. Neurotrauma Symposium, 2016 Symposium. 26 – 29 June, 2016. Lexington, Kentucky. **Journal of Neurotrauma. June 2016, 33(13): A64-A64. A135-A135. Abstract n PSB-343.**

Montagnese F, **Mondello S**, Wenninger S, Schoser B. Assessing the impact of gender on the phenotype of myotonic dystrophy type 2: a cohort of 307 patients. **3rd Congress of the European Academy of Neurology - Amsterdam, June 24–27, 2017. EUROPEAN JOURNAL OF NEUROLOGY . 24 Supplement 1 Pages: 96-96 Meeting Abstract: O3215.**

Buki A, Sorinola A, **Mondello S**, Czeiter E, Sándor J. Outcome prediction in traumatic brain injury. Euro Academia Multidisciplinaria Neurotraumatologica (EMN). 22ND Annual Congress - New Perspectives in Traumatology. May 25th-27th, 2017, Pavia, Italia.

***Mondello S**, Sorinola A, Czeiter E, Sándor J, Buki A. Clinical Studies of the Utility of Circulating Brain Damage Markers for the Diagnosis of Traumatic Brain Injuries. Euro Academia Multidisciplinaria Neurotraumatologica (EMN). 22ND Annual Congress - New Prospectives in Traumatology. May 25th-27th, 2017, Pavia, Italia.

Kochanek PM, Bramlett HM, Dixon CE, Tortella FC, Dietrich WD, **Mondello S**, Hayes RL, Wang KK, Povlishock J, Lafrenaye A, Poloyac S, Empey P, Gilsdorf J, Shear DA. Overview of the first 12 therapies being evaluated by Operation Brain Trauma Therapy, a pre-clinical multi-center drug and biomarker screening consortium for traumatic brain injury. MHSRS/ATACCC. The 2017 Military Health System Research Symposium, 27-30 August 2017, Orlando/Kissimmee, Florida, USA.

***Mondello S**, Abou Abbass H, Bahmad H, Kobiessy F, Phipps H. Patterns in the Epidemiology and Cost of US Military Blast Traumatic Brain injury (TBI). MHSRS/ATACCC. The 2017 Military Health System Research Symposium, 27-30 August 2017, Orlando/Kissimmee, Florida, USA.

Kochanek PM, Bramlett HM, Dixon CE, Tortella FC, Dietrich WD, **Mondello S**, Hayes RL, Wang KK, Povlishock J, Lafrenaye A, Poloyac S, Empey P, Gilsdorf J, Shear DA. Overview of the first 12 therapies evaluated by Operation Brain Trauma Therapy, a pre-clinical multi-center consortium for TBI. The 35th Annual National Neurotrauma Symposium (Neurotrauma 2017), July 7-12, 2017, Snowbird, UT, USA. **Journal of Neurotrauma. July 2017, 34: A77-A77. Abstract n A22-07.**

***Mondello S**, Shear DA, Bramlett HM, Dixon CE, Dietrich WD, Hayes RL, Wang KK, Povlishock J, Lafrenaye A, Tortella FC, Kochanek PM. Circulating GFAP Levels to Monitor Therapeutic Response to Glibenclamide in a Rat Model of Cortical Contusion Injury: Findings from Operation Brain Trauma Therapy. The 35th Annual National Neurotrauma Symposium (Neurotrauma 2017), July 7-12, 2017, Snowbird, UT, USA. **Journal of Neurotrauma. July 2017, 34: A26-A26. Abstract n A06-08.**

***Abstract selected for PRESENTATION during the Data Blitz session

Lafrenaye A, Wang KK, **Mondello S**, Hayes RL, Gorse K, Walker S, Ogino Y, Kochanek PM, Povlishock J. Operation Brain Trauma Therapy: Levetiracetam treatment for traumatic brain injury in the micro pig. The 35th Annual National Neurotrauma Symposium (Neurotrauma 2017), July 7-12, 2017, Snowbird, UT, USA. **Journal of Neurotrauma. July 2017, 34: A110-A110. Abstract n B08-20.**

Hawkins B.E., **Mondello S**, Dixon C.E, Kochanek P.M, DeWitt D.S. Roadmap for Successful Translational Preclinical Traumatic Brain Injury Therapy Testing. The 35th Annual National Neurotrauma Symposium (Neurotrauma 2017), July 7-12, 2017, Snowbird, UT, USA. **Journal of Neurotrauma. July 2017, 34: A76-A76. Abstract n A22-05.**

VanMeter T, Halford J, Chong A, Mirshahi N, Shaw G, Veksler R, **Mondello S**, Meier T, Mayer A, Friedman A, Korley F, Wanner I. Astroglial cell wounding biomarker Aldolase C is robustly elevated in mild TBI patients. The 35th Annual National Neurotrauma Symposium (Neurotrauma 2017), July 7-12, 2017, Snowbird, UT, USA. **Journal of Neurotrauma. July 2017, 34: A28-A28. Abstract n A06-14.**

***Mondello S**, Sorinola A, Czeiter E, Sándor J, Buki A. Clinical Studies of the Utility of Blood-based Protein Biomarker as Diagnostic Signatures for Traumatic Brain Injury. 17th European Congress of Neurosurgery, October 1 – 5, 2017, Venice, Italy.

Mondello S,* Montagnese F, Wenninger S, Schoser B, AV Vestri. A study of the Clinical Phenotype of Patients with Myotonic Dystrophy type 2 (DM2) in Germany. IX Congresso SISMEC – September 13-16, 2017, Gargnano (BS).

Mazziotti ECR 2018. Annual Meeting of the European Society of Radiology - ECR 2018, February 28 – March 4, 2018, Vienna, Austria.

*****Abstract selected for an ORAL PRESENTATION**

Calin ECR 2018. The Effect of Body Position and Probe Position on the Localization of Breast Mass in Free-Hand Breast Ultrasound Examination. Annual Meeting of the European Society of Radiology - ECR 2018, February 28 – March 4, 2018, Vienna, Austria.

Loo J, Shen S, Czerwieniec G, Halford J, **Mondello S**, Meier T, Mayer A, Wanner I. Traumatomes expose astroglial injury stages and new biomarkers that predict severity and outcome after traumatic brain injury. The American Society for Neurochemistry (ASN) 2018 Annual Meeting. March 24-28, 2018, Riverside, Ca, United States.

***Mondello S**, Kobaissy F, Mechref Y, Zhao J, Talih FR, Cosentino F, Antelmi E, Moresco M, Plazzi G, Ferri R. Identification of Novel Candidate Biomarkers for RLS by Proteomic Analysis. IRLSSG 2018 Annual Meeting, 1 2018, Baltimore, US.

*****Abstract selected for an ORAL PRESENTATION**

***Mondello S**, Kobaissy F, Mechref Y, Zhao J, Talih FR, Cosentino F, Antelmi E, Moresco M, Plazzi G, Ferri R. Identification of Novel Candidate Biomarkers for RBD by Proteomic Analysis. 32nd Annual Meeting of the Associated Professional Sleep Societies, SLEEP 2018 Meeting, 2-6 June 2018, Baltimore, US. **SLEEP 41, A253-A254, 2018**

***Mondello S**, Kobaissy F, Mechref Y, Zhao J, Talih FR, Cosentino F, Antelmi E, Moresco M, Plazzi G, Ferri R. Identification of Novel Candidate Biomarkers for RLS by Proteomic Analysis. SLEEP 2018 Meeting, 2-6 June 2018, Baltimore, US.

Jingfu Z, Kobaissy F, Talih F, Ferri R., Yehia Mechref, **Mondello S***. Proteomic Study of Idiopathic REM Sleep Behavior Disorder and Restless Leg Syndrome Using LC-MS/MS for Candidate

Biomarker Identification. 66th ASMS Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA, USA.

Xue D, **Mondello S***, Kobeissy F, Talih F, Ferri R., Yehia Mechref. Discovery of Novel N-glycan Biomarkers for Idiopathic REM Sleep Behavior Disorder by LC-MS/MS. 66th ASMS Conference on Mass Spectrometry and Allied Topics, June 3-7, 2018, San Diego, CA, USA.

Holmström U, Tsitsopoulos P, Salci K, Holtz A, Shaw G, **Mondello S**, Marklund N. Increased CSF GFAP levels in surgically treated SCI patients with progressive neurological deterioration due to tethered cord and/or syringomyelia. The 57th International Spinal Cord Society Annual Scientific Meeting, ISCoS 2018, 13-15 September, Sydney, Australia.

ABOU-ABBASS Hussein, GHANNAM Maysaa, CHEHADEH Rawan, HAMMOUD Zeinab, KAROUT Lina, MONDELLO Stefania, NASSER Zeina, KOBEISSY Firas, HARATI Hayat. Determinants of Aggressive Behavior among Syrian Refugees in Lebanon. MEMA 2018 - Mental Health Across life span, 2018, 13-15 April, AUB, Beirut, Lebanon.

***Mondello S**, Kevin K. Wang, Cheryl Wellington, Jamie Hutchison, Andrés Büki, Endre Czeiter, Roberto Latini, Ava Puccio, David Okonkwo, Ramon Diaz-Arrastia, InTBIR Biomarkers Working Group. International Regulatory Pathways for TBI Biomarker Qualification: Perspectives from the InTBIR Biomarker Working Group. The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care August 11–16, 2018 Toronto, Canada. **Journal of Neurotrauma 35 (16), A-82**. Abstract PS1.04.77.

Audrey Lafrenaye, **Stefania Mondello**, Kevin Wang, John Povlishock, Karen Gorse, Susan Walker, Ronald Hayes, Patrick Kochanek. Operation Brain Trauma Therapy: Histological correlations to GFAP serum biomarker in a micro pig model of diffuse traumatic brain injury. The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care August 11–16, 2018 Toronto, Canada. **Journal of Neurotrauma 35 (16), A-82**. Abstract PS1.04.90.

Zhihui Yang, Tian Zhu, **Stefania Mondello**, Miis Akel, Aaron T Wong, Isha M Kothari, Fan Lin, Deborah A. Shear, Janice S Gilsdorf, Lai Yee Leung, Helen M. Bramlett, C. Edward Dixon, W. Dalton Dietrich, Ronald L. Hayes, John T. Povlishock, Frank C. Tortella, Patrick M. Kochanek, Kevin K.W. Wang*. p-NF-H protein as theranostic biomarker in three models of traumatic brain injury: an Operation Brain Trauma Therapy study. The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care August 11–16, 2018 Toronto, Canada. **Journal of Neurotrauma 35 (16), A-192**. PS2.04.31.

S.C. Hellewell, A. Conquest, **S. Mondello**, D.J. Cooper, M.C. Morganti-

Kossmann. GFAP and S100 serum profiles in a sub-study of the EPO-TBI trial: correlations with outcome measures. The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care August 11–16, 2018 Toronto, Canada. **Journal of Neurotrauma** 35 (16), A-234. Abstract PS2.04.147.

Musumeci O, Parisi D, **Mondello S**, Brizzi T, Mosca V, Migliorato A, Ciranni A, Mongini T, Rodolico C, Vita G, Toscano A. Vacuolated PAS-positive lymphocytes as screening tool and a possible therapeutic biomarker in late-onset Pompe disease (LOPD). **EUROPEAN JOURNAL OF NEUROLOGY**. 25 Supplement: 2; Pages: 86-86 Meeting Abstract: O416.