CURRICULUM VITAE

April 2021

NAME: Fabio Triolo, PhD

PRESENT TITLE: The Clare A. Glassell Distinguished Chair
Associate Professor, Department of Pediatric Surgery
Director, Cellular Therapy Core
McGovern Medical School at UTHealth

ADDRESS: McGovern Medical School
The University of Texas Health Science Center at Houston
Department of Pediatric Surgery
MSB Suite 6.293
6431 Fannin St.
Houston, TX, 77030
Ph. 713-500-7309
HIPAA Secure Fax: 713-383-3704
E-mail: fabio.triolo@uth.tmc.edu

UNDERGRADUATE EDUCATION:

1994 Italian *Laurea* in Biological Sciences
University of Palermo
Palermo, Italy

GRADUATE EDUCATION:

1999 Ph.D. in Chemical Sciences
University of Palermo
Palermo, Italy

2000 M.Phil. in Biomedical Sciences
Mount Sinai School of Medicine of New York University
New York, NY

2002 Ph.D. in Biomedical Sciences
Mount Sinai School of Medicine of New York University
New York, NY

ACADEMIC APPOINTMENTS:

2005-2008 Adjunct Assistant Professor of Surgery
Department of Surgery
University of Pittsburgh School of Medicine
Pittsburgh, PA

2009-2011 Affiliate Faculty Member
McGowan Institute for Regenerative Medicine
University of Pittsburgh
Pittsburgh, PA

2011-2014 Assistant Professor of Clinical and Translational Sciences
Center for Clinical and Translational Sciences
UTHealth, Houston, TX

2011-2014 Assistant Professor
Department of Pediatric Surgery
The University of Texas Medical School at Houston
Houston, TX

2014-present Associate Member
University of Texas Graduate School of Biomedical Sciences at Houston, Houston, TX
Program Affiliation: Clinical and Translational Sciences

2014-present Associate Professor
Department of Pediatric Surgery
The University of Texas Medical School at Houston
Houston, TX

2014-present Associate Professor of Clinical and Translational Sciences
Center for Clinical and Translational Sciences
UTHealth, Houston, TX

2014-present Faculty Member
Gulf Coast Cluster for Regenerative Medicine
Gulf Coast Consortia for Quantitative Biomedical Sciences
Houston, TX

2019-present The Clare A. Glassell Distinguished Chair
The University of Texas McGovern Medical School
Houston, TX

HOSPITAL AND ADMINISTRATIVE APPOINTMENTS:

2003-2004 Coordinator of Biological and Biomedical Research
Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT)
University of Pittsburgh Medical Center, Palermo, Italy

2004-2010 Founder and Director
Office of Research, Health and Biomedical Sciences

	Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) University of Pittsburgh Medical Center Palermo, Italy
2004-2010	Director, Experimental Cell Therapy and Cell Transplantation Laboratory Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) University of Pittsburgh Medical Center Palermo, Italy
2006-2010	Technical Director Regenerative Medicine and Cell Therapy Unit Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) University of Pittsburgh Medical Center Palermo, Italy
2006-2008	Interim Head of Production Human Cell Processing cGMP Facility Regenerative Medicine and Cell Therapy Unit Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) University of Pittsburgh Medical Center Palermo, Italy
2010	Director of the Human Cell Processing cGMP Facility and of Cell Therapy R&D Regenerative Medicine and Biomedical Technologies Unit Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) University of Pittsburgh Medical Center Palermo, Italy
2011-present	Director, Human Cell Processing cGMP Facilities Program of Regenerative Medicine The University of Texas Medical School at Houston Houston, TX
2014-present	Director, Cellular Therapy Core (UTHealth Service Center)

LICENSURE:

Biologist Licensing examination, 2001
University of Palermo (Palermo, Italy) with a grade of 150/150
Member of the Italian National Board of Biologists since 2001

CERTIFICATION:

Authorized by the Italian Drug Agency and by the Italian Ministry of Education, University and Research, to act as *Qualified Person* of Pharmaceutical cGMP facilities authorized to produce biological products for cell therapy, according to Italian law n.219 of April 24, 2006, implementation of European directive 2001/83/EC

PROFESSIONAL ORGANIZATIONS:

National:

American Society of Gene and Cell Therapy

Italian Scientists and Scholars of North America Foundation

- Treasurer, and member of the biosciences subcommittee, of the US Southwest Chapter of the Italian Scientists and Scholars of North America Foundation in 2012

International:

European Qualified Person Association

International Society for Cellular Therapy

The Cell Transplant Society

Tissue Engineering International and Regenerative Medicine Society

US Department of State International Exchange Alumni

HONORS AND AWARDS:

1982	Honorary Citizenship of the State of Tennessee
1986-87	University of Palermo (Italy) Competitive Student Scholarship
1994	University of Palermo (Italy) Experimental Thesis Special Mention
1994-95	University of Palermo (Italy) Competitive Fellowship
1996-97	Mount Sinai Graduate School of Biological Sciences of CUNY Fellowship
1996-99	University of Palermo (Italy) Competitive Doctoral Fellowship

1996-2001	Fulbright Fellowship
1999	American Society for Cell Biology Competitive Travel Award
2000	Mount Sinai Graduate School of Biological Sciences of NYU Competitive Travel Award
2000	European Union Competitive Travel Award
2009	Best Poster Award at the 6th National Congress of the Italian Society for Clinical and Experimental Cytometry
2010	Best Poster Award at the EMBO Workshop "From Fetomaternal Tolerance to Immunomodulatory Properties of Placenta-derived Cells in Cell Therapy"
2014	Italian Flame Award – One of 21 distinguished medical professional honorees of Italian descent whose personal and professional achievements were recognized at the Italian Cultural and Community Center of Houston's 2014 Gala focused on Italian Influence on Medicine.
2016	One of 14 Italian scientists and physicians selected by the Italian Ministry of International Affairs to meet and update Sergio Mattarella, President of Italy, on research activities involving Italians in Texas.

EDITORIAL POSITIONS:

2005	Guest Co-Editor of Cell Transplantation Journal, Vol. 15, Supplement 1 (2006), special supplement dedicated to Regenerative Medicine
2013-present	Academic Editor, Translational Science Section of *Progressive Science* peer-reviewed online research journal

SERVICE ON NATIONAL AND INTERNATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

2004-2010	Founding member of the Institutional Research Review Board at the Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT), Palermo, Italy
2004-2006	Member of the Coordinating Committee of the Immunology and Transplantation Study Group of the Italian Society of Diabetology

2005-2006	Member of the Scientific Organizing Committee of the 3rd International Conference on Functional Genomics of Ageing held in Palermo, Italy from March 29 to April 1, 2006
2005	Member of the Scientific Organizing Committee of the International Workshop on Regenerative Medicine held in Palermo, Italy on April 21, 2005
2005	Member, representing ISMETT, of the social-economic partnership identified by the Regional Province of Palermo, Italy for the establishment of the 2007-2013 strategic plans
2005-2010	Member (Technical Director), nominated by the Region of Sicily, Italy of the Steering Committee for the implementation of the Regenerative Medicine: from Research to Enterprises through ICT Technology - Province of Palermo (ICT-E2) grant, the goal of which was to establish a state-of-the-art Human Cell Processing cGMP Facility
2006	Member of the Scientific Organizing Committee of the Innovative Techniques for the Treatment of Diabetes: Pancreatic Islet Transplantation Forum held in Palermo, Italy on March 17, 2006
2006-2007	Member of the Working Group, nominated by the Italian National Transplant Center, for the definition of the national guidelines for procurement, processing, preservation, storage and distribution of pancreatic islets and hepatocytes
2008	Member of the Working Group for the organization of Bioforum 2008, a leading Italian biotechnology conference held in Milan, Italy on October 1-2, 2008
2008	Director of the first edition of the "Introduction to Regenerative Medicine" workshop, held in Palermo, Italy from November to December 2008, within the "FARO – Multidisciplinary Patient-Oriented Education/Learning" Training Grant
2008	Reviewer of the Italian Ministry of Health National Guidelines for Procurement, Processing, Storage and Distribution of Cells and Tissues for Clinical Use
2008-present	Expert Member of the Italian National Reference Pole for the Coordination of Biological Resource Centers and Biobanks, nominated by the National Committee for Biosafety, Biotechnology and Life Sciences of the Italian Presidency of the Council of Ministers

2008-2011	Member (Technical Director), nominated by the Region of Sicily, Italy of the Steering Committee for the implementation of the ICT-E2 STEP 2: The Cell Factory Collaboratory grant, the goal of which was to establish a state-of-the-art virtual collaboratory for cell therapy
2008-2010	Member of the Strategic Planning Working Group of the Pharmaceutical-Medical Sector Circle of Knowledge of the "Resint – Sicilian Network of Technology Innovation" project. The objective was to create 10 sector-specific Circles of Knowledge, distributed in the Sicilian provinces
2008-present	Nominated Representative of the Region of Sicily, Italy by the Regional Health Council, for the establishment of the Italian REACH (a new integrated system for the Registration, Evaluation, Authorisation and Restriction of Chemical substances according to European Community Regulation n. 1907/2006 of the European Parliament and of the Council) network
2009-2011	Member of the Working Group of the Health Council of the Region of Sicily, Italy aimed at establishing a regional cell and tissue bank
2010	Member of the task force for Advanced Therapy Medicinal Products (ATMP) of the European Advanced Translational Research InfraStructure in Medicine (EATRIS). EATRIS aims at creating a distributed pan-European infrastructure consisting of a network of well-renowned biomedical translation research centers across Europe
2010	Member of the ISCD Research and Development Partnership Committee of the International and Commercial Services Division (ISCD) of the University of Pittsburgh Medical Center
2010	Member, representing ISMETT, of the Working Group of the Italian National Center for Biological Resources, aimed at establishing a national network for clinical research
2010	Member of the Technical Support Group of the Region of Sicily, Italy nominated by the Regional Health Council, for the Evaluation of clinical and translational biomedical research proposals funded by the Italian Ministry of Health
2011-present	Expert reviewer, on behalf of the US-Italy Fulbright Commission, of Fulbright competitions open to Italian candidates seeking to pursue a Master or Ph.D. program or to carry out a period of research in the US and to US candidates who plan to conduct research and/or teach in Italy

2011-present	Peer reviewer of the clinical and translational biomedical research proposals funded by the Italian Ministry of Health
2012	Peer reviewer of the ISSNAF Young Investigator Award
2012	Member of the Scientific Organizing Committee of the 8th Conference of Italian Researchers in the World held in Houston on December 1, 2012
2013	Member of the Scientific Organizing Committee and Moderator of Keynote Lecture Session of the 9th Conference of Italian Researchers in the World, held in Houston on December 14, 2013
2013-2014	Member of the International Scientific Committee and Chairman of the Tissue Engineering and Regenerative Medicine session of the XLI Annual Congress of the European Society for Artificial Organs (ESAO) held on September 17-20, 2014 in Rome, Italy
2014	Member of the working group defining the Memorial Hermann -Texas Medical Center Master Facility Plan. My role is to provide the specs for the stem cell production cleanroom laboratory and its equipment.
2014	Member of the Scientific Organizing Committee of the 10th Conference of Italian Researchers in the World, held in Houston on December 6, 2014
2015	Member of the International Scientific Committee of the XLII Annual Congress of the European Society for Artificial Organs (ESAO) held on September 2-5, 2015 in Leuven, Belgium
2018-2019	Member of the Organizing Committee of the Global Scientific Conference on Regenerative Medicine and Tissue Engineering (GSCRMTE-2019) held on June 20-22, 2019 in Dubai, United Arab Emirates
2018-2019	NIH Scientific Review Group Member. National Cancer Institute Special Emphasis Panel. PREVENT: cGMP Production of Vaccines and Biologicals
2020-2021	Member of the Organizing Committee of the 5th World Congress and Expo on Neurology & Mental Disorders (Neurology-2021) to be held on September 27-29, 2021 in Venice, Italy

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

2012-2021	Member of the Medical School Research Committee of the University of Texas Health Science Center at Houston (UTHealth)
2013	Peer reviewer, UTHealth Center for Clinical and Translational Sciences Pilot Project Awards Program
2013-2015	Faculty Senator, University of Texas Medical School at Houston
2013-2015	Member of the University of Texas Medical School at Houston Faculty Senate Promotions Subcommittee
2013-present	Interviewer for University of Texas Medical School at Houston Applicants
2013-present	Member of the UTHealth Skeletal Tissue Research Group
2015-present	Member of the UTHealth Core Lab and Service Center Council
2015-2021	Member of the UTHealth Stem Cell Research Oversight Committee

SPONSORSHIP OF CANDIDATES FOR GRADUATE DEGREE:

The University of Palermo (Italy) Management Engineering Degree Program

- Student name: Fabio Lopez
  Dissertation Title: Risk Management within the Quality Management System of a GMP Facility
  Period: July-November 2008
  Note: Mr. Lopez graduated summa cum laude with special mention of his dissertation and academic career. He continued collaborating with my unit until June 2010, becoming first author of a pioneering paper in the field of Risk Management applied to Cell Therapy Manufacturing.

SPONSORSHIP OF UNDERGRADUATE STUDENTS AT THE UNIVERSITY OF PALERMO, ITALY:

Biotechnology Degree Program

- Student name: Salvatore Mineo
  Dissertation Title: Isolation and Characterization of Human Fetal Liver Cells for Clinical Transplantation
  Period: January 2007 - July 2008

- Student name: Ignazio Romano

Dissertation Title: Evaluation of the Physical and Microbiological Contamination in a Cellular Production Laboratory Compliant to Good Manufacturing Practice
Period: October 2007 – October 2009

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

- Name: Renato Mancuso
  Period: 2006-2008

- Name: Cinzia Chinnici
  Period: 2006-2010

- Name: Daniele Galvagno
  Period: 2006-2008

- Name: Giorgia Sisino
  Period: 2006-2009

- Name: Monica D'Amato
  Period: 2006-2009

- Name: Giandomenico Amico
  Period: 2007-2010

- Name: Claudia Coronnello
  Period: 2009

- Name: Cinzia Sausa
  Period: 2009

- Name: Suchit Sahai
  Period: 2013-2016

- Name: Kunjan Desai
  Period: 2016-2017

- Katherine Ruppert
  Period: 2018

- Soheil Zorofchian
  Period: 2019-2020

TUTORSHIP OF SUMMER RESEARCH FELLOWS:

The University of Pittsburgh School of Medicine Summer Research Fellowship Program

- Student names: Jodie Bryk and Ian Yuan
  Project title: From Pre-neoplastic Lesions to Hepatocellular Carcinoma: a Comparative Gene Expression Study
  Period: Summer 2005

- Student Name: Srikanth Divi
  Project Title: 3D Perfusion Culture of Human Liver Fetal Progenitor Cells
  Period: Summer 2010

The University of Rochester School of Medicine and Dentistry Summer Research Fellowship Program

- Student name: Zachary Lill
  Project Title: Long-term Cultures of Human Bone Marrow Cells Using Bioreactors
  Period: Summer 2007

UT Medical School Summer Research Program

- Student name: Matteo Costantini (Rice University)
  Project Title: From Pre-Clinical Development of Wharton's Jelly-based Autologous Tissue Engineering Applications to Clinical Grade cGMP-compliant Manufacturing: a Translational Research Experience
  Period: Summer 2015

- Student name: Adam Saleh (UT Austin)
  Project Title: Isolation of Wharton's Jelly and Evaluation of In Situ Osteogenic Differentiation Potential of Wharton's Jelly-Embedded Stem Cells
  Period: Summer 2016

- Student name: Claudia Waters (UT Austin)
  Project Title: Microglial Polarization After Traumatic Brain Injury
  Period: Summer 2018

TUTORSHIP OF PROFESSIONAL TRAINEES:

- Trainee name: Marysuna Wilkerson (University of California, Berkeley)
  Project title: Long Term Preservation of Clinical-Grade Wharton's Jelly for Autologous Tissue Engineering Applications
  Period: August-December 2013

- Trainee name: Austin Sweat (UTHealth San Antonio)
  Period: May-July 2016

TUTORSHIP OF PRE-BACCALAUREATE TRAINEES:

- Trainee name: Chiara Sdringola (University of St. Thomas)

Period: January-May 2016

TUTORSHIP OF INTERNATIONAL FACULTY EXCHANGE PROGRAM:

- Trainee name: José Julian Pérez Cordero
  Affiliation: El Bosque University, Medicine Faculty, Bogotá, D.C., Colombia
  Period: June-August 2015

CONSULTING:

Biostage, Inc. (2017) – Consultant on Advanced Therapy Medicinal Products (ATMPs) based on cells (cell therapy) and tissues (tissue engineering) for clinical use in patients at the I.R.C.C.S. Ospedale Pediatrico Bambino Gesù located In Rome, Italy. Consultancy services included, but were not be limited to, specific manufacturing techniques/SOPs and corresponding training, support activities for regulatory filings, scientific consulting related to tissue engineered extracellular matrices seeded with human cells for cell-based tissue replacement therapies such as esophageal, tracheal and bronchial engineered tissues, including services related to techniques and procedures for procuring, manipulating and/or testing ATMPs, research and evaluation of additional topics such as sites for manufacturing, methods transfer, quality management, etc.

INVESTIGATIONAL NEW DRUGS (FDA – CBER/OCTGT):

1. BB-IND-12620: Treatment of Adult Severe Traumatic Brain Injury Using Autologous Bone Marrow Mononuclear Cells. (Active) (Co-Investigator)

2. BB-IND-15246: Autologous cell therapies for cerebral palsy-chronic (ACT for CP). (Closed) (Co-Investigator)

3. BB-IND-15331: Mesenchymal Stromal Cells For Acute Respiratory Distress Syndrome (STAT). (Active) (Subinvestigator)

4. BB-IND-16614: A Randomized, Placebo-Controlled Phase IIa Trial to Evaluate the Biological Activity, Safety, and Tolerability of Autologous Regulatory T Lymphocytes (Tregs) Expanded Ex-Vivo and Returned Intravenously in Combination with Low-Dose IL-2 in People with Amyotrophic Lateral Sclerosis (ALS) (ALS Ph2a Treg Study). (Active) (Subinvestigator)

5. BB-IND-17105: Adoptive cellular therapy with endogenous CD8+ T-cells (ACTOLOG IMA101) in patients with relapsed and/or refractory solid cancers. (Closed) (Subinvestigator)

6. BB-IND-17215: Autologous Wharton's Jelly for surgical repair of cleft palate. (Clinical Hold) (Co-Investigator)

7. BB-IND-17402: Individual Patient Expanded Access Investigational New Drug Application (IND) for Autologous Adipose Derived Mesenchymal Stem Cells Seeded onto an Electrospun, Polyurethane Scaffold; Implanted in the Esophagus. (Closed) (Subinvestigator)

8. BB-IND-17433: Phase I trial evaluating genetically modified autologous T cells expressing a T-Cell Receptor recognizing a MAGE-A4/A8-derived peptide in patients with squamous cell non-small cell lung cancer and head and neck squamous cell carcinoma (ACTengine IMA201-101). (Active) (Subinvestigator)

9. BB-IND-17487: Individual Patient Expanded Access Investigational New Drug Application (IND) for Autologous cell therapies for cerebral palsy-chronic (ACT for CP). (Closed) (Co-Investigator)

10. BB-IND-17844: Phase I trial evaluating genetically modified autologous T cells expressing a T-cell receptor recognizing a cancer/germline antigen in patients with solid tumors including but not limited to non-small cell lung cancer or hepatocellular carcinoma (ACTengine IMA202-101). (Active) (Subinvestigator)

11. BB-IND-18235: Autologous umbilical cord mononuclear cells (for CDH associated HIE). (Active) (Subinvestigator)

12. BB-IND-18491: Phase 1 study evaluating genetically modified autologous T cells expressing a T-cell receptor recognizing a cancer/germline antigen in patients with relapsed and/or refractory solid tumors (ACTengine IMA203-101). (Active) (Subinvestigator)

13. BB-IND-21898: Adjunctive Allogeneic Mesenchymal Stem Cells for Treatment-Resistant Bipolar Depression. (Active) (Co-Investigator)

14. BB-IND-27228: Recovery Enhancement using Marrow Stromal Cells in Acute Stroke. (Clinical Hold) (Subinvestigator)

15. BB-IND-27235: Individual Patient Expanded Access Investigational New Drug Application (IND) for Allogeneic Mesenchymal Stem Cells (MSCs) for chronic hemorrhagic stroke and disabling residual impairments. (Closed) (Subinvestigator)

INDUSTRY SPONSORED CLINICAL TRIALS SUPPORTED BY THE CELLULAR THERAPY CORE AT UTHealth:

Active:

1. ACTengine (in collaboration with Immatics US, Inc.). This trial, performed at MD Anderson Cancer Center, Columbia University, University of Pittsburgh, University Hospital Bonn, University Hospital Dresden, University Hospital Würzburg, and soon at the University of Chicago, at 3 Mayo Clinic sites and 2 additional German

sites, uses autologous gene-engineered tumor-targeting T cells manufactured at UTHealth, in patients with solid tumors.

2. MultiStem Administration for Stroke Treatment and Enhanced Recovery Study (MASTERS-2) (sponsored by Athersys, Inc.). This is a Phase 3 study to examine the safety and effectiveness of the allogeneic, adult stem cell investigational product, MultiStem, in adults who have suffered an acute ischemic stroke in the previous 18-36 hours.

3. A Study of NCS-01 in Patients with Acute Ischemic Stroke (sponsored by NC Medial Research Inc.). This is an initial Phase I/II dose-finding, double-blind, placebo-controlled, multi-center study to evaluate the safety and tolerability of NCS-01 in patients with acute ischemic stroke. All patients are randomized within 24 hours of stroke onset. This study will be conducted in 2 stages.

4. MultiStem for Treatment of Trauma Induced Multiple Organ Failure/Systemic Inflammatory Response Syndrome (MATRICS-1). (sponsored by Athersys, Inc.). This is a single center, prospective, randomized, double-blind, pragmatic Phase 2 clinical study in severely injured trauma patients within hours of hospitalization who have survived initial resuscitation.

Completed:

1. Double-Blind, Randomized, Placebo-Controlled Phase II Safety and Efficacy Trial of MultiStem in Adults with Ischemic Stroke (sponsored by Athersys, Inc.). This study was aimed at evaluating the safety and potential effectiveness of the adult stem cell investigational product MultiStem, in adults who have suffered an ischemic stroke.

2. Autologous Cell Therapies for Cerebral Palsy-Chronic (co-sponsored by Cord Blood Registry, Inc. and Mission Connect). This was a randomized, blinded, placebo-controlled, cross-over Phase II study designed to compare the effects of autologous bone marrow-derived versus autologous umbilical cord blood-derived mononuclear cells on pediatric patients with cerebral palsy.

3. A Double-Blind, Controlled Phase IIB Study of the Safety and Efficacy of Modified Stem Cells (SB623) in Patients with Chronic Motor Deficit from Ischemic Stroke (sponsored by SanBio, LLC/Sunovion). This was a multicentric double-blind, sham-surgery controlled study aimed at evaluating the clinical efficacy of stereotactic, intracranial injection of SB623 cells (human bone-marrow-derived mesenchymal stromal cells that have been transiently transfected with a plasmid construct encoding the intracellular domain of human Notch-1) in patients with fixed motor deficits from ischemic stroke.

4. First-in-Man Implantation of a Human Adipose-derived MSC Seeded Tissue Engineered Esophageal Implant (in collaboration with Biostage, Inc.).

5. ACTolog (sponsored by Immatics US, Inc.). This trial, performed at MD Anderson Cancer Center, used autologous endogenous tumor-targeting T cells manufactured at UTHealth, in patients with solid tumors.

6. A Phase II Multi-site Study of Autologous Cord Blood Cells for Hypoxic Ischemic Encephalopathy (BABYBAC II) (in collaboration with Duke University and sponsored by the Robertson Foundation). This was a multicenter, prospective, randomized, double-blind, placebo controlled Phase 2 study in which we hypothesized that umbilical cord blood cells would improve the outcome of neonates with neonatal encephalopathy and potentially interrupt the pathophysiologic cascade that is unleashed following hypoxic-ischemic injury.

CURRENT GRANT SUPPORT:

1. Source: Senator Lloyd and B.A. Bentsen Center for Stroke Research
   Duration: January 1, 2015 – December 31, 2030 (NCE)
   Role: Co-Investigator (PI: Charles Cox Jr., MD)
   Title: Imaging of Activated Microglia: Cell Therapy Targets for Neurological Injury
   Funding awarded: $300,000.00 (TC)
   Summary: The goal of this project is to develop novel imaging radioligand imaging techniques to study neuroinflammation after TBI.

2. Source: United States Department of Defense Joint Warfighter Medical Research Program
   Duration: August 16, 2016 – August 15, 2023
   Role: Co-Investigator (PI: Charles S. Cox, Jr., M.D.)
   Title: Treatment of Adult Severe TBI Injury Using Autologous Bone Marrow Mononuclear Cells
   Funding awarded: $6,873,595.00 (TC)
   Summary: The project plan will assess safety and functional outcomes following treatment of severe TBI in adults using autologous bone marrow mononuclear cells.

3. Source: Texas Medical Center
   Duration: May 26, 2017 – May 25, 2022
   Title: Administration of Umbilical Cord Blood Progenitors for Neurological Injury in CDH
   Role: Co-Investigator (PI: Charles S. Cox, Jr., M.D.)
   Funding awarded: $322,207.00
   Summary: To determine if late CNS structural outcomes are improved in infants with single ventricle anatomy/physiology following the administration of autologous or allogeneic UCB mononuclear cells compared with patients in a single ventricle registry (SVR)/historical control group.

4. Source: United States Department of Defense
   Duration: September 15, 2017 – September 14, 2021

Role: Director, Cellular Therapy Core (PI: Laura Moore, M.D.)
Title: Mesenchymal Stem Cells for Treatment of acute respiratory distress syndrome (ARDS) Following Trauma
Funding awarded: $321,404.00 (TC)
Summary: This is a placebo-controlled phase 2 clinical trial aimed at testing the efficacy and safety of allogeneic human bone marrow-derived mesenchymal stem cells in patients who develop ARDS following major trauma.

OTHER SUPPORT:

1. Source: Evelyn H. Griffin
   Funds donated to date: $3,000,000.00
   Role: Director, The Evelyn H. Griffin Stem Cell Therapeutics Research Laboratory
   Summary: This is a philanthropic donation

2. Source: Immatics US, Inc.
   Duration: September 1, 2015 – December 31, 2024
   Funds: $4,804,017.36
   Role: Director, Cellular Therapy Core
   Summary: This is a service research agreement supporting manufacturing of therapeutic T cells

3. Source: Cellenkos, Inc.
   Duration: April 1, 2018 – March 31, 2022
   Funds: $137,680.00 (to Aug. 31, 2020)
   Role: Director, Cellular Therapy Core
   Summary: This is a service research agreement supporting quality control testing of therapeutic cord-blood derived regulatory T cells

4. Source: Houston Methodist Research Institute
   Duration: June 1, 2018 – June 30, 2021
   Funds: $702,360.00
   Role: Director, Cellular Therapy Core
   Summary: This is a service research agreement supporting manufacturing of therapeutic regulatory T cells

ENDOWMENTS:

The Clare A. Glassell Distinguished Chair
Established: February 16, 2019
Endowment: $2,000,000

PAST GRANT SUPPORT:

1. Source: National Institutes of Health, USA (R01)
   Duration: April 1, 2013 – February 28, 2020
   Title: Phase 2 Pediatric Autologous BMMNC for Severe Traumatic Brain Injury
   Role: Co-Investigator (PI: Charles S. Cox, Jr., M.D.)
   Funding awarded: $2,687,723.00 (TC)
   Summary: This trial will examine the effects of using bone marrow derived cells to treat severe traumatic brain injury in children. The study will test if these cells preserve injured brain tissue after traumatic injury. Preservation of brain tissue is associated with improvement in functional and cognitive outcomes.

2. Source: Biostage, Inc.
   Duration: April 1, 2019 - September 30, 2019
   Title: Human Ad-MSCs Process Development and cGMP Technology Transfer for automatically seeding CEI Manufacturing.
   PI: Fabio Triolo, Ph.D.
   Funding: $333,281.08 (TC)
   Summary: This is an IND-enabling project aimed at translating the technology optimized during previous process development phases into an validated cGMP-compliant process to manufacture clinical-grade tissue engineered esophageal implants to be used in a Phase I clinical study.

3. Source: United States Department of Defense (SBIR)
   Duration: July 1, 2017 – June 30, 2019
   Role: Director, Cellular Therapy Core (PI: Robert Chin, Ph.D.)
   Title: Injectable Bio-Compatible Gel Composed of iPSC derived NSC for Regeneration of Brain Tissue
   Funding awarded: $44,962.00 (TC)
   Summary: This is a study aimed at developing a directly injectable gel composed of Human induced Pluripotent Stem Cell (iPSC)-derived Neural Stem Cells (NSCs) and porcine brain derived extracellular matrix (ECM).

4. Source: Cord Blood Registry, Inc.
   Duration: June 1, 2016 – June 15, 2019
   Title: Tools and Technologies for the Harvest/Storage/Deployment of Wharton's Jelly in Pediatric Craniofacial Surgery
   Role: Co-Investigator (PI: Charles S. Cox, Jr., M.D.)
   Funding awarded: $620,622.00 (TC)
   Summary: This is a project aimed at developing the manufacturing and cryopreservation technology enabling Wharton's-jelly based Tissue Engineering applications in pediatric craniofacial surgery.

5. Source: Biostage, Inc.
   Duration: May 1, 2018 - December 31, 2018
   Title: Development of human Ad-MSC seeded Cellspan Esophageal Implant.

Role: Co-PI (Co-PIs: Olson, Scott, Ph.D. and Triolo, Fabio, PhD)
Funding awarded: $153,185.00 (TC)
Summary: This is an IND-enabling project aimed at translating the technology experimented in a porcine model into a cGMP-compliant process to manufacture clinical-grade tissue engineered esophageal implants to be used in a Phase I clinical study.

6. Source: National Institutes of Health, USA (SBIR Phase I, Fast-Track)
   Duration: September 30, 2017 – September 29, 2018
   Role: Director, Cellular Therapy Core (PI: Stephen Hollis Bartelmez, Ph.D.)
   Title: Autologous TGFB1 Modified CD34+ Stem Cells for Repair of Diabetic Macular Edema and Macular Ischemia
   Funding awarded: $461,417.00 (TC)
   Summary: This is an IND-enabling pre-clinical study aimed at evaluating safety and efficacy of a novel therapeutic strategy to correct dysfunctional diabetic CD34+ cells by transiently modifying CD34+ stem cells derived from patient blood, that both restore perfusion to the ischemic retina and correct vessel leaking.

7. Source: National Institutes of Health, USA (SBIR)
   Duration: February 1, 2012 – July 31, 2018
   Role: Director, Cellular Therapy Core (PI: Charles Cox Jr., MD)
   Title: Cell-Based Therapy for Treatment of Traumatic Brain Injury (TBI)
   Funding awarded: $942,499.00 (TC)
   Summary: An initial GLP toxicity study in Phase 1, followed by sequential studies to address clinically relevant translational issues in progenitor cell therapy for neurological injury/disease.

8. Source: Cord Blood Registry, Inc.
   Duration: October 1, 2013 – December 31, 2017
   Title: Autologous Cell Therapies for Cerebral Palsy (ACT for CP)
   Role: Director, Cellular Therapy Core (PI: Charles S. Cox, Jr., M.D.)
   Funding awarded: $500,000.00 (TC)
   Summary: This is a randomized, blinded, cross-over design Phase 2 clinical trial comparing cord blood vs. bone marrow mononuclear cells for cerebral palsy with specific imaging/clinical criteria.

9. Source: Mission Connect/TIRR Foundation
   Duration: June 1, 2014 – May 31, 2017
   Title: Autologous Cell Therapies for Cerebral Palsy (ACT for CP)
   Role: Director, Cellular Therapy Core (PI: Charles S. Cox, Jr., M.D.)
   Funding awarded: $300,000.00 (TC)
   Summary: This is a randomized, blinded, cross-over design Phase 2 clinical trial comparing cord blood vs. bone marrow mononuclear cells for cerebral palsy with specific imaging/clinical criteria.

10. Source: Let's Cure CP
    Duration: January 10, 2011 – August 31, 2017
    Title: Autologous Cell Therapies for Cerebral Palsy (ACT for CP)
    Role: Director, Cellular Therapy Core (PI: Charles S. Cox, Jr., M.D.)
    Funding awarded: $110,000.00 (TC)
    Summary: This is a randomized, blinded, cross-over design Phase 2 clinical trial comparing cord blood vs. bone marrow mononuclear cells for cerebral palsy with specific imaging/clinical criteria.

11. Source: Biostage, Inc.
    Duration: June 1, 2017 - December 31, 2017
    Title: Porcine to Human Ad-MSCs Process Development & cGMP Technology Transfer for CEI Manufacturing.
    Role: Co-PI (Co-PIs: Olson, Scott, Ph.D. and Triolo, Fabio, PhD)
    Funding awarded: $475,225.75 (TC)
    Summary: This is an IND-enabling project aimed at translating the technology experimented in a porcine model into a cGMP-compliant process to manufacture clinical-grade tissue engineered esophageal implants to be used in a Phase I clinical study.

12. Source: Biostage, Inc.
    Duration: March 1, 2017 – September 1, 2017
    Title: Individual Patient Expanded Access Investigational New Drug Application (IND) for Autologous Adipose Derived Mesenchymal Stem Cells Seeded onto an Electrospun, Polyurethane Scaffold; Implanted in the Esophagus
    Role: Co-PI (Co-PIs: Olson, Scott, Ph.D. and Triolo, Fabio, PhD)
    Funding awarded: $100,439.00 (TC)
    Summary: This is to translate the technology experimented in a porcine model and produce 4-6 clinical grade tissue engineered esophageal implants for a first-in-man application in an individual patient.

13. Source: UTHealth
    Duration: August 1, 2016 – December 1, 2016
    Role: Director, Cellular Therapy Core
    Funding: $40,000
    Summary: These funds were used to potentiate the Griffin laboratory processing capacity

14. Source: Cord Blood Registry, Inc.
    Duration: May 1, 2015 – October 30, 2016
    Title: Assaying the potency of hUCB on BBB permeability after TBI
    Role: Director, Cellular Therapy Core (PI: Scott Olson, Ph.D.)
    Funding awarded: $69,224.00 (TC)
    Summary: This study is designed to assay the potency of hUCB to treat a model of TBI in rodents in a manner that correlates to in vitro measurements of immunomodulation.

15. Source: Biostage, Inc.
    Duration: September 1, 2016 – March 15, 2017
    Title: GLP Isolation, Expansion, Characterization and Release of Porcine Adipose-derived MSCs
    Role: Co-Investigator (PI: Scott Olson, Ph.D.)
    Funding awarded: $237,534.00 (TC)
    Summary: The first phase of this project is aimed at preparing GLP-grade MSC-seeded scaffolds to support IND-enabling pre-clinical studies in which the combination product will be used to regenerate esophageal sections in the porcine model. The second phase is aimed at translating the technology into a cGMP-compliant clinical grade process to manufacture human MSC-seeded scaffolds to support a Phase I safety trial in humans.

16. Source: UTMB Health
    Duration: July 1, 2015 – June 30, 2016
    Funds: $11,275.44
    Role: Director, Cellular Therapy Core
    Summary: This is an equipment lease to enable bone marrow processing at UTMB Health for our Phase 2 Pediatric Autologous BMMNC for Severe Traumatic Brain Injury trial

17. Source: United States Department of Defense Joint Warfighter Medical Research Program
    Duration: June 1, 2011 – November 30, 2015
    Role: Co-Investigator (PI: Charles S. Cox, Jr., M.D.)
    Title: Treatment of Adult Severe TBI Injury Using Autologous Bone Marrow Mononuclear Cells
    Funding awarded: $1,722,974.00 (TC)
    Summary: The project plan assessed safety and functional outcomes following treatment of severe TBI in adults using autologous bone marrow mononuclear cells.

18. Source: UTHealth
    Duration: April – August 2015
    Funds: $1,637,009.00
    Role: Director, Cellular Therapy Core
    Summary: These funds were used to purchase major equipment to potentiate the Cellular Therapy Core

19. Source: Senator Lloyd and B.A. Bentsen Center for Stroke Research
    Duration: December 12, 2011 – December 31, 2014
    Role: Co-Investigator (PI: Charles Cox Jr., MD)
    Title: Amniotic Fluid Derived MSCs for Neurological Injury
    Funding: $486,654.00 (DC)
    Summary: This is a pre-clinical study aimed at developing a xeno-free method to isolate, expand and cryopreserve clinical-grade human amniotic fluid-derived

mesenchymal stromal cells in compliance with cGMP and using them as a neuroprotective in the setting of HIE associated with cardiopulmonary bypass.

20. Source: UTHealth Research Park Complex Behavioral and Biomedical Sciences cGMP Facility Park Complex
    Duration: March 2011 – November 2012
    Role: Director Griffin Stem Cell Laboratory
    Funding: $1,159,456.00

21. Source: Italian Ministry for Innovation and Technologies
    Duration: May 2005 – December 2010
    Role: Technical Director
    Title: Regenerative Medicine: From Research to Enterprise through Information and Communication Technology
    Funding awarded to ISMETT: € 5,300,000.00

22. Source: University of Pittsburgh Medical Center
    Duration: July 2006 – June 2007
    Role: Co-Investigator
    Title: Human Liver Progenitor Cell Transplantation (the MLS CellTxModule) using Bioreactor-Expanded Human Fetal Liver Cells
    Funding awarded to UPMC Italy: $530,415.00

23. Source: University of Pittsburgh Medical Center
    Duration: July 2007 – June 2008
    Role: Co-Investigator
    Title: Progenitor Cell Transplantation for Chronic Liver Disease, Diabetes Mellitus and Skin Injuries
    Funding awarded to UPMC Italy: $502,499.00

24. Source: National Institutes of Health (SBIR)
    Duration: February 2008 – January 2010
    Role: Project Director for UPMC Italy
    Title: Protection of Allogeneic Hepatocyte Transplants by Engineered Veto
    Funding awarded to UPMC Italy: $95,904.00

25. Source: Region of Sicily, Italy
    Duration: June 2008– March 2011
    Role: Technical Director
    Title: ICT-E2 STEP 2: The Cell Factory Collaboratory
    Funding awarded to ISMETT: € 1,164,661.60

26. Source: University of Pittsburgh Medical Center
    Duration: July 2008 – June 2009
    Role: Co-Investigator

Title: Exploring Opportunities of Using Adult Stem Cells for the Development of Innovative Transplantation Therapies - for Liver Disease, Skin Injuries and Diabetes Mellitus
Funding awarded to UPMC Italy: $516,457.00

27. Source: Italian Ministry of Health
Duration: January 2009– January 2011
Role: PI for ISMETT
Title: Adult Mesenchymal Stem Cells: Differentiative Lineages and Applications in Autologous and Allogenic Implantation and Tissue Remodeling
Funding awarded to ISMETT: € 30,000.00

28. Source: University of Pittsburgh Medical Center
Duration: July 2009 – June 2010
Role: Co-Investigator
Title: Exploring Opportunities of Employing Fetal Adult Stem Cells for the Development of Innovative Transplantation Therapies
Funding awarded to UPMC Italy: $373,896.00

29. Source: University of Pittsburgh Medical Center
Duration: July 2010 – June 2011
Role: Co-Investigator (Resigned on January 24, 2011)
Title: Fetal Adult Stem Cells for the Development of Innovative Cell TransplantationTherapies
Funding awarded to UPMC Italy: $ 440,360.00

PUBLICATIONS:

A. Presented Abstracts

1) **Triolo, F.**, Caponetti, E., Mezzasalma, E., Salvato, B., Beltramini, M. and Heenan, R.K.: Investigation on the Quaternary Structure of Rapana thomasiana Hemocyanin. IX S.I.B.P.A. Congress - May 12-18, 1990, Marciana Marina, Italy

2) **Triolo, F.**, Triolo, R., Caponetti, E., and Floriano, M.A.. Chemical, Physical and Biological Applications of Neutron Scattering. 1st C.I.M.C.A. Meeting – February 24, 1995, Palermo, Italy

3) Caponetti, E., Floriano, M.A., **Triolo, F.** and Triolo, R.: SAXS and SANS Small Angle Scattering. VI Neutron Spectroscopy Annual Meeting - May 25-26, 1995, Rome, Italy

4) **Triolo, F.**, Heenan, R., Salvato, B., Beltramini, M., Caponetti, E., and Triolo, R.: Small Angle Neutron Scattering and Quaternary Structure of Hemocyanins. ABCD-AGI-SIBBM-SIMGBM Joint Meeting - October 2-6, 1995, Montesilvano Lido (PE), Italy

5) Lencioni, S., Pellerito, A., Fiore, T., Maggio, F., **Triolo, F.**, and Pellerito, L.: Solid State and In Vivo Investigation on Organotin(IV) Orotates. XXIV National Congress of Inorganic Chemistry - June 25-29, 1996, Palermo, Italy

6) **Triolo, F.**, Triolo, A., Triolo, R., Betts, D., McClain, J., DeSimone, J., Wignall, G.D., Demé, B., Steytler, D.C., and Heenan, R.K.: Critical Micellisation Density: a SAS Structural Study of the Unimer-Aggregate Transition of block-copolymers in supercritical CO_2. SAS99: XI International Conference On Small Angle Scattering, May 17-20, 1999, Upton, NY

7) **Triolo, F.**, Triolo, A., Agamalian, M., Lin, J.S., Heenan, R.K., Lucido, G. and Triolo, R.: Fractal approach in petrography: Combining USANS, SANS and IANS. SAS99: XI International Conference On Small Angle Scattering, May 17-20, 1999, Upton, NY

8) Pellerito, C., Fiore, T., **Triolo, F.**, Mansueto, C., Nagy, L., and Pellerito, L.: Cytotoxic Activity of Organotin(IV) derivatives with m-tetra(4-sulfonatofenil) Porphinate Fe(III) cloride. Proc. XV National Congress of Analytic Chemistry, September 27 - October 1, 1999, Palermo, Italy

9) **Triolo, F.**, and Piñol-Roma, S.: Isolation and Characterization of Human Extranucleolar Pre-ribosomes. 39th American Society for Cell Biology Annual Meeting - December 11-15, 1999, Washington, DC
Mol. Biol. Cell 10:2538 Suppl., 1999

10) Triolo, A., **Triolo, F.**, Lo Celso, F., and Triolo, R.: From Unimer to Aggregates and Back: Exploring the Critical Micellization Density Concept. 8th Annual Meeting of the Italian Society of Synchrotron Light – June 29 – July 1, 2000, Palermo, Italy

11) **Triolo, F.**, and Piñol-Roma, S.: Nucleoplasmic pre-ribosomes from human cells: Isolation and Characterization. 5th International Conference on Ribosome Biogenesis and Nucleolar Function – August 17-21, 2000, Granlibakken, CA. See also T. Pederson (2001). Viewing the Ribosome and Visiting the Nucleolus at Lake Tahoe, RNA, 7, 1-4

12) Pellerito, C., Di Stefano, R., Scopelliti, M., Fiore, T., Duca, D., **Triolo, F.**, and Pellerito, L.: Interaction of Organotin(IV) moieties with MeCl[meso-tetra(4-sulfonatophenyl) porhine] (Me = Fe, Mn). Preliminary solid state investigation and antitumoral activity. 41st Mössbauer Discussion Group –September 3-4, 2000, University of Greenwich, London, UK

13) Lo Celso, F., Triolo, A., **Triolo, F.**, and Triolo, R.: Structural investigation on industrial appealing polymers dissolved in supercritical carbon dioxide. XXXI National Congress of Physical Chemistry – June 19-23, 2001, Padua, Italy

14) Triolo, A., **Triolo, F.**, Triolo, R., Lucido, G., Riso, A., and Lo Celso, F.: Fractal structure of geological materials. XXXI National Congress of Physical Chemistry – June 19-23, 2001, Padua, Italy

15) Lo Celso, F., Triolo, A., **Triolo, F.**, Thiyagarajan, P., Amenitsch, H., Steinhart, M., Kriechbaum, M., DeSimone, J.M., and Triolo, R.: A combined small-angle neutron and X-ray scattering study of block copolymers micellisation in supercritical carbon dioxide. XII International Conference on Small-Angle Scattering - August 25-29, 2002, Venice, Italy

16) Carruba, G., Granata, O.M., Campisi, I., **Triolo, F.**, Vizzini, G., Tamburo De Bella, M., Leonardi, V., Gridelli, B., and Agostara, B.: Biomolecular and genomic profiling of human liver tissues and cells. 7th World Congress on Gastrointestinal Cancer – June 15-18, 2005, Barcelona, Spain

17) Provenzani, A., Poma, P., Labbozzetta, M., Notarbartolo, M., Di Stefano, R., **Triolo, F.**, Vizzini, G., Gridelli, B., D'Alessandro, N.: Influence of CYP3A5 and MDR-1 Single Nucleotide Polimorphisms on the pharmacokinetics of tacrolimus in Caucasian liver transplant recipients. 33rd National Congress of the Italian Society of Pharmacology – June 6-9, 2007, Cagliari, Italy

18) Provenzani, A., Di Stefano, R., D'Alessandro, N., **Triolo, F.**, Vizzini, G.B., and Gridelli, B.: Possible pharmacological interaction between corticosteroids and a calcineurin inhibitor (tacrolimus) in liver transplant patients. 10th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, September 9-14, 2007, Nice, France. Ther Drug Monit 29(4): 530-531, 2007

19) Marcenò, R., **Triolo, F.**, Cappuzzo, V., Amico, G., Gridelli, B., Vizzini, G., Gerlach, J., Miki, T., Chinnici, C., Ingrassia, F., Galvagno, D., Bavetta, R., Carcassi, C., Macchiarella, A., Mistretta, S., Merlo D., and Tortorici, G.: Immunological Advantages of Human Fetal Hepatocytes for the Treatment of Liver Disease? 22nd European Immunogenetics and Histocompatibility Conference, April 2-5, 2008, Toulouse, France. Tissue Antigens, 71(4):306-307, 2008

20) Provenzani, A., Notarbartolo, M., Biondi, F., Labbozzetta, M., Poma, P., Vizzini, G., Palazzo, U., Polidori, P., **Triolo, F.**, Gridelli, B., and D`Alessandro, N.: The Effect of CYP3A5 and ABCB1 Single Nucleotide Polymorphisms on Tacrolimus Dose Requirements in Caucasian Liver Transplant Patients. immunoTDM Warsaw 2008 International Conference Therapeutic Drug Monitoring in Optimizing the Immonosuppressive Therapy – September 26-27 2008, Varsavia, Poland

21) **Triolo, F.**, Di Bartolo, C., Lopez, F., Piazza, T., Gerlach, J.C., and Gridelli, B.: Application of a Quality Risk Management Model Approach for Cell Therapy Manufacturing to a Clinical Study on Human Fetal Liver Progenitor Cell Transplantation in Endstage Liver Disease. 2009 McGowan Institute Scientific Retreat – March 9-11, 2009, Farmington, PA

22) Piazza, T., Collura, F., Farinella, E., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: An Automated Information System for Human Fetal Liver Cell Manufacturing. 2009 McGowan Institute Scientific Retreat – March 9-11, 2009, Farmington, PA

23) Gridelli, B., Vizzini, G., Pietrosi, G., **Triolo, F.**, Luca, A., Cintorino, D., Conaldi, P.G., Amico, G., D'Amato, M., Chinnici, C., Sisino, G., Timoneri, F., Miki, T., and Gerlach, J.C.: Human liver progenitor cell transplantation (CTx) for endstage liver failure - initial report from a clinical feasibility study. 2009 McGowan Institute Scientific Retreat – March 9-11, 2009, Farmington, PA

24) Ring, A., Gerlach, J., Peters, G., Pazin, B.J., Minervini, C.F., **Triolo, F.**, Gridelli, B., and Miki, T.: Four-compartment 3D Perfusion Bioreactor Culture System Enhances Hepatic Maturation on Human Fetal Hepatocytes. 4th Annual Meeting of the European Association for the Study of the Liver. – April 22-26, 2009, Copenhagen, Denmark. J Hepatol, 50, S312-13, 2009

25) Amico, G., Chinnici, C., D'Amato, M., Sisino, G., Timoneri, F., Li Petri, S., Cintorino, D., Conaldi, P.G., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: Cytofluorimetric Characterization of Human Fetal Liver Cells. 6th National Congress of the Italian Society for Clinical and Experimental Cytometry – May 6-8, 2009, Catania, Italy **(best poster award)**

26) Giandalia, G., De Caro, V., Siragusa, M.G., Chiodo, F., Cordone, L., Gridelli, B., D'Amato, M., **Triolo, F.**, and Giannola, L.I.: Inclusion of Trehalose (TRH) into liposomes to regulate uptake of this cryoprotectant into human hepatocytes. Young Pharmaceutical Scientists Meet in Nice – June 7-8, 2009, Nice, France

27) **Triolo, F.**, Ring, A., Miki, T., Gridelli, B., and Gerlach, J.C.: Hepatic maturation of human fetal hepatocytes in four compartment 3D perfusion culture. Sicilian Biotechnology Day – June 20, 2009, Catania, Italy

28) Chinnici, C.M., Johnen, C., **Triolo, F.**, Gridelli, B., and Gerlach, J.C.: Development of a skin regeneration approach based on the combined use of human fetal keratinocytes and an innovative cell spray deposition system. Sicilian Biotechnology Day – June 20, 2009, Catania, Italy

29) Piazza, T., Collura, F., Farinella, E., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: Development of an automated information system for cell therapy manufacturing. Sicilian Biotechnology Day – June 20, 2009, Catania, Italy

30) Provenzani, A., Notarbartolo, M., Labbozzetta, M., Poma, P., Vizzini, G., Palazzo, U., Polidori, P., **Triolo, F.**, Salis, P., Caccamo, C., Bertani, T., Gridelli, B., and D'Alessandro, N.: Distribution of CYP3A5 and ABCB1 and their influence on tacrolimus kidney transplant patients. 11th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology – October 3-8, 2009, Montréal, Québec, Canada

31) Lopez, F., Di Bartolo, C., Piazza, T., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: A Quality Risk Management Model for Cell Therapy Manufacturing. 4th Healthcare Risk Management Forum. – November 24-27, 2009, Arezzo, Italy

32) Young, M., Chinnici, C., Plettig, J., Johnen, C., Bräutigam, K., **Triolo, F.**, Turner, M.E., Thompson, R.L., Over, P., Amico, G., and Gerlach, J.C.: Dermal Skin Stem Cells: Exploring Human Fetal Skin Progenitor Cells for Regenerative Medicine Cell-Based Therapy Development. 2010 McGowan Institute Scientific Retreat – March 7-10, 2010, Farmington, PA

33) Amico, G., Chinnici, C., Pasqua, S., Li Petri, S., Pietrosi, G., Vizzini, G., Conaldi, P.G., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: Cytofluorimetric Characterization of Human Fetal Liver Cells. 15th Leipziger Workshop, "Cytomics and Stem Cells" – April 22-24, 2010, Leipzig, Germany

34) Lopez, F., Di Bartolo, C., Piazza, T., Gerlach, J.C., Gridelli, B., and **Triolo, F.**: A Quality Risk Management Model Approach for Cell Therapy Manufacturing. 19th Annual Meeting of the Society for Risk Analysis - Europe – June 21-23, 2010, London, UK

35) Pietrosi, G., Vizzini, G.B., Conaldi, P.G., D'Amato, M., Amico, G., **Triolo, F.**, Spada, M., Alio, L., Gerlach, J.C., and Gridelli, B.: Fetal Human Liver Progenitor Cells: A Potential Immune-Privileged Cellular Source from Non Heart Beating Donors. Proc. "From fetomaternal tolerance to immunomodulatory properties of placenta-derived cells in cell therapy" EMBO Workshop. October 3-6, 2010, Brescia, Italy **(best poster award)** - Placenta 32(Suppl. 4): S337, 2011

36) Gruttadauria, S., Seria, E., Pagano, D., Conaldi, P.G., Vizzini, G., Mangano, K., Liotta, R., Amico, G., Luca, A., **Triolo, F.**, Basile, F., and Gridelli, B.: Bone Marrow-Derived Mesenchymal Stem Cells To Augment Liver Regeneration in a Preclinical Model of Acute Liver Failure in Rats. The 2011 Joint International Congress of ILTS, ELITA, and LICAGE – June 22-25, 2011, Valencia, Spain. Liver Transplant, 17(6) Suppl. 1: S199-S200, 2011

37) Hetz, R.A., **Triolo, F.**, Olson, S.D., Smith, P., Day, M., Johnson, A., Moise, K.J. and Cox, C.S. Jr. Amniotic Fluid Derived Mesenchymal Stromal Cells: Characterization and Logistics of Clinical Grade Cell Production. Academic Surgical Congress – February 5-7, 2013 – New Orleans, LA – J Surg Res 179(2):189, 2013

38) Hetz R.A., **Triolo F.**, Olson S.D., Bedi S., Kota D.J., Roye J., Smith P., Day M.C., DiCarlo B., Cox Jr C.S. Amniotic fluid derived mesenchymal stem cells: potential hazardous in the treatment of traumatic brain injury. International Society of Stem Cell Research (ISSCR) 11th Annual Meeting – June 12-15 2013 – Boston, MA

39) Evans S., Kota D.J., Hetz H., Olson S.D., **Triolo F.**, Cox Jr C.S., Wenzel P. MSC licensing by biomechanical forces. International Society of Stem Cell Research (ISSCR) 11th Annual Meeting – June 12-15 2013 – Boston, MA

40) DiCarlo B., Kota D.J., **Triolo F.**, Adams B.D., Bailey V., Prabhakara K.S., Olson S.D. Looking for Biomarkers for Mesenchymal Stem Cell Potency. Mission Connect 2013 Annual Scientific Symposium – December 2013 – Houston, TX

41) Sahai, S., Wilkerson, M., Vitale, F., Tsentalovich, D., Kiran, S., Pasquali, M., Cox, C.S. Jr., and **Triolo, F.** Biophysical Characterization of Native Wharton's Jelly for Tissue Engineering Applications. 41st Annual Congress of the European Society for Artificial Organs – September 17-20, 2014 – Rome, Italy – Int J Artif Organs 37(8):595, 2014

42) Sahai, S., Wilkerson, M., Vitale, F., Tsentalovich, D., Kiran, S., Pasquali, M., Cox, C.S. Jr., and **Triolo, F**. Characterization of Native Wharton's Jelly: A Natural Tissue Engineering Construct. 2014 Annual Meeting of the Biomedical Engineering Society – October 22-25, 2014 – San Antonio, TX

43) Liao, G.P., Vojnits, K., Choi, Y., Aroom, K.R, Hetz, R.A., Xue, H., **Triolo, F.**, Li, Y., Lally, K.P., Cox, C.S. Jr. Human Amniotic Fluid derived Multipotent Stromal Cells Enhance Decellularized Diaphragm Scaffold Regeneration and Function in a Rodent Model of Congenital Diaphragmatic Hernia. American College of Surgeons Clinical Congress 2014 – October 26-30, 2014 – San Francisco, CA – J Am Coll Surg 219(3):S74-S75, 2014

44) Wilkerson, M., Sahai, S., Vitale, F., Tsentalovich, D., Kiran, S., Pasquali, M., Cox, C.S. Jr., and **Triolo, F**. Native Wharton's Jelly: a Natural Injectable Biomaterial for Autologous Tissue Engineering Applications. 10th Conference of Italian Researchers in the World – December 6, 2014, Houston, TX

45) Kota D.J., Liao G.P., Prabhakara K.S., DiCarlo B., Evans S., **Triolo F.**, Wenzel P., Cox C.S., Olson S.D. Predicting therapeutic efficacy of MSC in TBI through anti-inflammatory potency. Mission Connect 2014 Annual Scientific Symposium – December 2014 – Houston, TX

46) Liao, G.P., Hetz, R.A., Kota, D.J., Hughes, T.G., Corkins, C.J., Xue, H., Moise, K.J., Johnson, A., Olson, S.D., **Triolo, F.** and Cox, C.S. Jr. Donor Phenotype Influences Performance of Human Amniotic Fluid Derived Mesenchymal Stromal Cells as Therapy for Traumatic Brain Injury. APSA 2015, 46th Annual Meeting of the American Pediatric Surgical Association – April 30 – May 3, 2015, Fort Lauderdale, FL

47) Greives, M.R., Sahai, S., Wilkerson, M., Xue, H., Teichgraeber, J.F., Cox, C.S. Jr. and **Triolo, F.** Wharton's Jelly Induces Osteogenesis in an Alveolar Cleft Model. 62nd Annual Meeting of the Plastic Surgery Research Council – May 4-7, 2017, Durham, NC – Plast Reconstr Surg Glob Open, 5(4 Suppl): 92-93, 2017

48) Burnette, K.S., Kalenjian, L., Prabhakara, K.S., Toledano Furman, N., Todorova, E., Laurent, J., Booker, G., Bhattarai, D., Marsh, M., Cooper, O., Soliman, S., Hedberg, B., Bouchard, J., Budnik, B., Si, Z., Cox, C.S. Jr., **Triolo, F.**, Olson, S.D. and La Francesca, S. Characterization of Tissue Engineered Grafts Carrying Mesenchymal Stem Cells to Support Esophageal Regeneration. International Society for Stem Cell Research Annual Meeting – June 14-17, 2017, Boston, MA

49) Carrillo, L., Kumar, A., **Triolo, F.**, Xue H., Ambrose, C.G., Bi, X., Aaron, I. and Cox C.S. Jr. Bone Regeneration with Wharton's Jelly in a Critical Size Alveolar Cleft Defect Model. American College of Surgeons Clinical Congress 2019 – October 27-31, 2019, San Francisco, CA – J Am Coll Surg 229(4):e176, 2019 DOI: 10.1016/j.jamcollsurg.2019.08.1208

B. Refereed Original Articles in Journals

1) **Triolo, F.**, Graziano, V., and Heenan, R.K.: Small Angle Neutron Scattering Study of the Quaternary Structure of Rapana thomasiana Haemocyanin. J Mol Struct, 383, 249, 1996

2) **Triolo, F.**, Pellerito, C., Stocco, G.C., Fiore, T., Maggio, F., Pellerito, L., and Triolo, R.: Organometallic Complexes with Biological Molecules. XIII. Organotin(IV)[meso-tetra(4-carboxyphenyl)porphinate]s and the cell-cycle: A Flow-cytometric Approach. Appl Organomet Chem, 13, 733, 1999

3) Fiore, T., Pellerito, C., Fontana, A., **Triolo, F.**, Maggio, F., Pellerito, L., Cestelli, A., and Di Liegro, L.: Organometallic Complexes with Biological Molecules. XII. Solid State and Solution Studies on Dialkyltin(IV) and Trialkyltin(IV)thiaminepyrophosphate derivatives. Appl Organomet Chem, 13, 705, 1999

4) **Triolo, F.**, Triolo, A., Agamalian, M., Lin, J.S., Heenan, R.K., Lucido, G., and Triolo, R.: Fractal approach in petrography: Combining ultra small angle, small angle and intermediate angle neutron scattering. J Appl Crystall, 33(3), 863, 2000

5) Triolo, A., **Triolo, F.**, Lo Celso, F., Betts, D.E., McClain, J.B., DeSimone, J.M., Wignall, G.D., and Triolo, R.: Critical Micellisation Density: a Small Angle Scattering Structural Study of the Monomer-Aggregate Transition of block-copolymers in supercritical CO_2. Phys. Rev. E, 62, 5839, 2000

6) **Triolo, F.**, Triolo, A., Triolo, R., Londono, J.D., Wignall, G.D., McClain, J.B., Betts, D.E., Wells, S., Samulski, E.T., and DeSimone, J.M.: Critical Micelle Density for the Self-assembly of Block Copolymer Surfactants in Supercritical Carbon Dioxide. Langmuir, 16, 416, 2000

7) **Triolo, F.**, Triolo, A., Triolo, R., Betts, D., McClain, J.B., DeSimone, J.M., Steytler, D.C., Wignall, G.D., Demé, B., and Heenan, R.K.: Critical micellisation density: a

SAS structural study of the unimer-aggregate transition of block-copolymers in supercritical CO_2. J Appl Crystall, 33(3), 641, 2000

8) Triolo, R., Triolo, A., **Triolo, F.**, Steytler, D.C., Lewis, C.A., Heenan, R.K., Wignall, G.D., and DeSimone, J.M.: Structure of diblock copolymers in supercritical Carbon Dioxide and Critical Micellisation Pressure. Phys. Rev. E., 61, 4640, 2000

9) Mansueto, C., Puccia, E., Maggio, F., Di Stefano, R., Fiore, T., Pellerito, C., **Triolo, F.**, and Pellerito, L.: Organometallic complexes with biological molecules. XIV. Biological activity of dialkyl and trialkyltin(IV) - [meso-tetra(4-carboxy-phenil)porphinate] derivatives. Appl Organomet Chem, 14(5), 229, 2000

10) Puccia, E., Mansueto, C., Cangialosi, M.V., Fiore, T., Pellerito, C., **Triolo, F.**, and Pellerito, L.: Organometallic Complexes with Biological Molecules. XV. Effects of Tributyltin(IV)chloride on enzyme activity, Ca^{+2} and biomolecule content and synthesis in Ciona intestinalis (Urochordata) ovary. Appl Organomet Chem, 15, 213, 2001

11) Lo Celso, F., Triolo, A., **Triolo, F.**, McClain, J., DeSimone, J.M., Heenan, R.K., Amenitsch, H., and Triolo, R.: Industrial applications of the aggregation of block copolymers in supercritical CO_2: a SANS study. Applied Physics A- Materials Science & Processing 74(2): S1427-S1429, 2002

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C. Invited Lectures

1) **Triolo, F.**: The Mediterranean Cell Factory: A Joint Project of ISMETT and the University of Palermo. 12th Regional Congress of the Italian Diabetes Society – October 28-29, 2004, Messina, Italy

2) **Triolo, F.**, Piazza, T., and Romero Lauro, G.: Telescience and Virtual Collaboratories – Workshop on Image Analysis in Medicine and Biology – February 16, 2005, Palermo, Italy

3) **Triolo, F.**: Certified Cell Production for Clinics and Research through Good Manufacturing Practices. Biotecnologies: a transversal theme of the 7th European Research Framework Program – March 3, 2006, Messina, Italy

4) **Triolo, F.**, Gridelli, B., and Scardulla, C.: Congestive Heart Failure Treatment with Autologous Stem Cell Therapy. Adult Human Stem Cells: Signalling, Differentiation, Transplantation Workshop – May 19, 2006, Palermo, Italy

5) **Triolo, F.**: Fetal Progenitors for Cell-based Therapies. New Frontiers in Cell-based Research and Therapy at ISMETT Minisymposium. May 30, 2007, Palermo, Italy

6) **Triolo. F.**: Regeneration Biotechnology as a Source of Therapeutical and Economic Developments. Bioincubators of Ideas Meeting, sponsored by the National Committee for Biosafety, Biotechnology and Life Sciences of the Presidency of the Council of Ministers. October 3, 2007, Milan, Italy

7) **Triolo, F.**: Stem Cells and Regenerative Medicine: Possible Application in Dermatology. XII Oncoderm Meeting: Stem Cells and Dermatology – Physician-Patient Communication Techniques, December 15, 2007, Palermo, Italy

8) **Triolo, F.**: The New Frontiers of Regenerative Medicine. FIDAPA District Congress "Stem Cells: The Present and The Future" – October 19, 2008, Capo d'Orlando (ME), Italy

9) **Triolo, F.**: Development of a Cell Therapy Center: The ISMETT Experience in Palermo. Cell Therapy 2008: A European Perspective – October 27, 2008, Milan, Italy

10) **Triolo. F.**: Advanced Therapies and Regenerative Medicine. Introduction to Regenerative Medicine Workshop – November 10, 2008, Palermo, Italy

11) **Triolo, F.**: Regenerative Medicine and Neurodegenerative Diseases. Introduction to Regenerative Medicine Workshop – November 24, 2008, Palermo, Italy

12) **Triolo, F.**: Research Without Borders: Telescience and Virtual Collaboratories. Festival of Innovation – December 3, 2008, Bari, Italy

13) **Triolo, F.**: Cell Therapy Manufacturing and Advanced Therapies: The ISMETT experience in Palermo. Seminars of Medical Culture for the Population. Second Cycle – Year 2009 – February 11, 2009, Palermo, Italy

14) **Triolo, F.**, and Piazza, T.: Development of an Automated Information System for Cell Therapy Manufacturing. Bio-IT World Conference & Expo '09 Europe – October 6-8, 2009, Hannover, Germany

15) **Triolo. F.**: The Importance of Grantsmanship in Increasing Competitiveness. Info day – Funding Sources for Research – October 27, 2009, Palermo, Italy

16) **Triolo, F.**: Innovation in Cell Therapy. 9th National Pharmaceutical Conference – December 11, 2009, Catania, Italy

17) **Triolo, F.**: Developing a State-of-the-Art Cell Production Facility for the Clinical Translation of Innovative Cell-based Therapies, Roswell Park Cancer Institute – July 16, 2010, Buffalo, NY

18) **Triolo, F.**: Keep an eye on Regenerative Medicine: State of the Art and Future Perspectives in Ophthalmology. Grandangle 2010: Hot Topics in Ophthalmology – October 22-23, 2010, Milan, Italy

19) **Triolo, F.**: Innovations in Gene Therapy. Grandangle 2010: Hot Topics in Ophthalmology – October 22-23, 2010, Milan, Italy

20) **Triolo, F.**: Potentiating Translation of Innovative Cell-based Therapies in Regenerative Medicine at UTHealth. Center for Stem Cell and Regenerative Medicine (CSCRM) and Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases (IMM), University of Texas Medical School – June 4, 2012, Houston, TX

21) **Triolo, F.**: (Chair, Tissue Engineering and Imaging session): Implementing Clinical Trials in Regenerative Medicine: Challenges and Requirements. Nanocourse "Design and implementation for first-in-human oncology trials" – July 10, 2012, Houston, TX

22) **Triolo, F.**: Stem Cell and Regenerative Medicine Applications in Neurological Injury at UTHealth. 8th Conference of Italian Researchers in the World – December 1, 2012, Houston, TX

23) **Triolo, F.**: Achieving GMP Scalable Production for Study of Regenerative Medicine Products in Clinical Trials. REGEN 2013: Clinical Trials & Reimbursement. Improving Clinical Trial Design & Execution Strategies for Cell Based Regenerative Medicines – March 19-21, 2013, Boston, MA

24) **Triolo, F.**: Development of Cell-based Therapies and Regenerative Medicine Applications at UTHealth. Eli and Edythe Broad Center for Regenerative Medicine and Stem Cell Research seminar series, University of Southern California – April 22, 2014, Los Angeles, CA

25) **Triolo, F.** Cell Banking to Enable Cell Therapy: Hurdles and Tricks to Make it Work. XLI Annual Congress of the European Society for Artificial Organs (ESAO) – September 17-20, 2014, Rome, Italy

26) **Triolo, F.** (Artificial vs. Biological Substitutes Crossfire Session) En Route to Regeneration: Keep Calm and Carry On. XLI Annual Congress of the European Society for Artificial Organs (ESAO) – September 17-20, 2014, Rome, Italy

27) **Triolo, F.** Establishment of a Clinical Grade Amniotic Fluid-derived Mesenchymal Stromal Cell Bank. 2014 Regenerative Medicine Symposium – Gulf Coast Cluster

for Regenerative Medicine of the Gulf Coast Consortia for Quantitative Biomedical Sciences, October 3, 2014, Houston, TX

28) **Triolo, F.** "Is Your Idea a Good One if No One Knows About it: A Panel Discussion on Moving Your Research Ideas, Today, into Tomorrow's Cures". 2015 4th Tissue Engineering and Regenerative Medicine International Society (TERMIS) World Congress, September 8-11, 2015, Boston, MA

29) **Triolo, F.** Chair, Senior Faculty Breakthrough Discovery Symposium, 2017 McGovern Medical School Research Retreat – October 10, 2017, Houston, TX

30) **Triolo, F.** Panelist: Product Development, Processing and Production; Panelist: Optimizing Cell Product Development and Delivery to Patients. Cellular Therapies and Transfusion Medicine in Trauma and Critical Care – Looking Towards the Future (CTTACC 2019), December 11-13, 2019, San Diego, CA

31) **Triolo, F.** Chair, Innovations in Medicine, McGovern Medical School Collaborative Workshop Series – to be held in June 2021, Houston, TX

D. Invited Articles (Reviews, Editorials, etc.) in Journals

1) **Triolo, F.:** SAXS and SANS: A Biologist's Point of View. Notiziario Neutroni e Luce di Sincrotrone, 5 (2), 23, 1995

2) **Triolo, F.**, and Gridelli, B.: End Stage Organ Failure: Will Regenerative Medicine Keep its Promise? Cell Transplantation, 15(Suppl. 1):S3–S10, 2006

3) **Triolo, F.**, Pietrosi, G., Scardulla, C., and Gridelli, B.: Transplantation and Regeneration in the Heart of the Mediterranean. Mech. Ageing Dev., 128(1):5–8, 2007

4) **Triolo, F.** and Lo Celso, F.: Roberto Triolo - A 40 Year Legacy for Young Scientists. In M. Pagliaro (Ed.), FineCat 2015 Symposium on Heterogeneous Catalysis for Fine Chemicals Book of Abstracts, Simplicissimus Book Farm, New York, 2015. ISBN: 9788869094255

5) Caplan, H., Olson S.D., Kumar, A., George, M., Prabhakara K.S., Wenzel, P., Bedi, S., Toledano-Furman, N.E., **Triolo, F.**, Kamhieh-Milz, J., Moll, G., Cox, C.S.: Mesenchymal Stromal Cell Therapeutic Delivery: Translational Challenges to Clinical Application. Front. Immunol., 10:1645, 2019 DOI: 10.3389/fimmu.2019.01645

E. Chapters

1) Lo Celso, F., **Triolo, F.**, Triolo, A., Lin, J.S., Lucido, G., and Triolo, R.: Fractal Approach in Petrology: Combining Ultra Small Angle (USANS) and Small Angle

Neutron Scattering (SANS). In: A. Messina (Ed.), Nuclear and Condensed Matter Physics, American Inst. of Physics, Melville (NY), pp. 138-141, 2000

2) **Triolo, F.**, Triolo, A., Lo Celso, F., Johnson Jr., J.S., Donato, D.I., and Triolo, R.: Modeling Small Angle Neutron Scattering Data from Polymers in Supercritical Fluids. In: A. Messina (Ed.), Nuclear and Condensed Matter Physics, American Inst. of Physics, Melville (NY), pp. 222-25, 2000

3) Pellerito, L., Barbieri, R., Di Stefano, R., Scopelliti, M., Pellerito, C., Fiore, T., and **Triolo, F.**: Toxic effects of organometallic compounds towards marine biota. In: A. Gianguzza, E. Pelizzetti and S. Sammartano (Eds.), Chemistry of Marine Water and Sediments, Springer-Verlag, New York, pp 337-382, 2002

4) Miki, T. and **Triolo F.** Functional Dualism of Perinatal Stem Cells. In: B. Arjmand (Ed.), Perinatal Tissue-Derived Stem Cells. Stem Cell Biology and Regenerative Medicine Series, Springer, New York, pp 1-20, 2016 ISBN: 978-3-319-46408-4 (Print) 978-3-319-46410-7 (Online)

5) **Triolo, F.** and Srivastava, A.K. Current Approaches to Tissue Engineering of the Nervous System. In R.L. Reis, & M.E. Gomes (Eds.), Encyclopedia of Tissue Engineering and Regenerative Medicine, Academic Press: Elsevier, Vol. 1, pp. 405-412, 2019 ISBN: 978-0-128-13699-7 DOI: 10.1016/B978-0-12-801238-3.65854-3

F. Dissertations

1) **Triolo, F.**: Neutron Scattering from Hemocyanins. (pp. 1-119). Undergraduate Dissertation in Biological Sciences. University of Palermo, Palermo, Italy, 1994

2) **Triolo, F.**: Organometals and Biological Systems: Structural and Cytotoxic Investigations. (pp. 1-120). Ph.D. Dissertation in Chemical Sciences, University of Palermo, Palermo, Italy, http://www.opengrey.eu/item/display/10068/309481, 1999

3) **Triolo, F.**: Human Pre-Ribosomes: Isolation and Characterization. (pp. 1-109). Ph.D. Dissertation in Biomedical Sciences. Mount Sinai School of Medicine of New York University, New York, NY. ISBN: 0-493-48621-6. UMI Publication Nr. 3035739. ANN HARBOR, MI: ProQuest Information and Learning Co., 2002

TECHNOLOGY DEVELOPED:

1) **Triolo, F.**, and Piazza, T.: Biological Safety Cabinet with Integrated Telerobotic Video-monitoring System.

2) **Triolo, F.**, and Piazza, T.: cGMP-compliant Electronic Batch Records System for Cell Therapy Facilities.

3) **Triolo, F.**, and Piazza, T.: cGMP-compliant Environmental and Instrumental Monitoring System for cGMP Facilities.

4) Gerlach, J., Bold. T., and **Triolo, F.**: Automated cell infusion device with built-in shaker.

5) Piazza, T., Collura, F., Grosso, E., and **Triolo, F.**: Wireless Environmental and Cell Culture Monitoring System.

MEDIA APPEARANCES:

Television

1) News coverage of the opening of the State-of-the-Art Human Cell Processing cGMP Facility designed and directed by Dr. Triolo at the University of Pittsburgh Medical Center (UPMC)'s Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT) in Palermo, Italy. Tg1 (Italy's national public TV channel RAI 1's newscast) – May 16, 2007

2) Special on the State-of-the-Art Stem Cell Production Facility designed and directed by Dr. Triolo at UPMC ISMETT in Palermo, Italy. Tg3 Sicilia (Regional broadcast of Italy's national public TV channel RAI 3's newscast) – May 17, 2008

3) Special on Regenerative Medicine, Bioreactors and Extracorporeal Support for Liver Failure. Elisir (Program on Health and Medicine related topics aired on Italy's national public broadcasting company RAI) – January 4, 2009

4) Special on the Tissue Engineering and Bone Regeneration Program at UPMC ISMETT in Palermo, Italy. Tg3 (Italy's national public TV channel RAI 3's newscast) Sicilia – June 11, 2009

5) Interview with Dr. Triolo with footing showing the Evelyn H. Griffin Stem Cell Therapeutics Research Laboratory at UTHealth. RAI Italia (RAI Italia is the international television service of RAI Internazionale, a subsidiary of RAI, Italy's public national broadcasting company) – May 12, 2014

6) Interview with Dr. Triolo within the educational documentary "Texan Italian Innovation", which paints a comprehensive picture of the state of research and innovation in the Italian community in Texas. The piece highlights the work of diverse innovators from a wide range of fields, from biomedicine to modern languages to music. ITALchannel.tv – May 25, 2014

7) Interview with Dr. Triolo within the feature story "USA 2016. Verso il Super Tuesday, Viaggio tra gli Italiani in Texas" (USA 2016. Towards Super Tuesday. A Trip Among Italians in Texas). RAINews (RAI is Italy's public national broadcasting company) – February 26, 2016

8) Drs. Triolo and Saverio La Francesca were invited guests during a RAINews24 newscast, interviewed on the first-in-man implant of a tissue engineered esophagus. RAINews24 (RAI is Italy's public national broadcasting company) – August 30, 2017

9) Dr. Triolo was an invited guest interviewed on Cord Blood donation/banking during a Fox 26 News newscast. Fox 26 News – July 31, 2019

10) Dr. Triolo was an invited guest interviewed on the Italian Drug Agency's decision to pause the Astra Zeneca Covid-19 vaccination campaign in Italy due to rare Serious Adverse Events in vaccinated individuals, and on the outcome of the European Medicines Agency's investigation of the case. Venti Ventuno, aired on Video Regione, the largest private TV station in the Italian Region of Sicily – March 19, 2021

Newspapers and Magazines

1) Dentro la Fabbrica delle Cellule (Inside the Cell Factory). Il Sole 24 Ore (one of Italy's major national newspapers) – May 31, 2007

2) Palermo, la Fabbrica degli Organi (Palermo, The Organ Factory). Corriere della Sera Magazine (one of Italy's major national newspapers) – December 13, 2007

3) Trapianti del Futuro. Nella "fabbrica di cellule" capaci di aggiustare gli organi (Transplants of the future. In the "factory of cells" able to repair organs). La Repubblica (one of Italy's major national newspapers) – May 4, 2010

4) Study Investigates Risk Management in Regenerative Medicine. UPMC International Extra! (also published on regenerativemedicine.net) – November 2010

5) Program Explores Use of Stem Cells to Treat Pediatric Birth Defects. Texas Medical Center News – August 1, 2012

6) Cervelli in fuga: Palermitano a Houston ai Vertici della Ricerca Scientifica (Brain Drain: a Native of Palermo in Houston at the Cutting-Edge of Scientific Research). SiciliaInformazioni.com (one of Sicily's major online newspapers) – May 28, 2014. The English version of the article, entitled "Brain Drain: a Native of Palermo in Houston", was published on NowItaly.com on May 30, 2014

7) Italian Doctors Honored in a Sold-out Casino Night that Leaves Everyone Feeling Lucky. CultureMap Houston and Houston City and Press – August 25, 2014

8) 2014 Italian Flame Awards Honor 21 Italians, Italian-Americans from the Medical Field. YourHoustonNews.com – August 26, 2014. Also published on EIN News World News Report – August 27, 2014

9) Houston, Ecco la Nuova Frontiera dei Cervelli "Made in Italy" (Houston, Here is the New Frontier of “Made in Italy” Brains). L’Espresso (one of Italy’s major magazines) – September 2, 2014

10) It and US: 2014 Italian Flame Awards! We the Italians magazine – September 3, 2014

11) ICCC Gala and Casino Night. Houstonia Magazine – September 4, 2014

12) Italian Cultural Association Honors Faculty. UT Medical School at Houston News – September 4, 2014

13) Conservazione Cellule Staminali Cordone Ombelicale, Fabio Triolo (Umbilical Cord Stem Cell Storage, Fabio Triolo). Newsscienze.com – September 6, 2014

14) Premiazione degli Italian Flame Award per il 2014 (2014 Italian Flame Awards Ceremony) SiciliaInformazioni.com (one of Sicily’s major online newspapers) – October 29, 2014

15) Lucio Luca Rende Onore ai Personaggi Siciliani "Dall'altra Parte della Luna" (Lucio Luca Honors Sicilian Personalities in “On the Other Side of the Moon”). ilsitodipalermo.it – November 24, 2014

16) "Dall'altra Parte della Luna": la Storia dei Siciliani d'America che ce l'Hanno Fatta. (On the Other Side of the Moon: the Story of Sicilians of the US who Have Succeeded). extraquotidiano.it – November 25, 2014.

17) Cento Anni tra i Banchi del CEI. Le Foto degli Studenti in Mostra. [100 Years Among the School Desks of the Ignatian Center for Education (CEI). An Exhibition of the Pictures of Distinguished Students]. LiveSicilia.it (one of Sicily’s major online newspapers) – November 27, 2014.

18) Quali Sono i Siciliani che Hanno “Sfondato” negli USA? Lo Svela Lucio Luca nel suo Nuovo Libro (Who are the Sicilians who Have Made it Big in the USA? Lucio Luca Reveals it in his New Book). glittersicilia.it – December 1, 2014

19) Ellis Island, Addio. I Nuovi Siciliani Scoperti dall’America. (Farewell Ellis Island. The New Sicilians Discovered by America). La Repubblica (one of Italy’s major national newspapers) – December 4, 2014

20) I Siciliani che mi Piacciono (The Sicilians I like). dipalermo.it (one of Palermo’s major online newspapers) – December 6, 2014

21) Scienza, Palermo come Houston: 6 Dicembre Dedicato ai “Cervelli Made in Italy” (Science, Palermo like Houston: December 6 Dedicated to Made Italy Brains). meteoweb.eu – December 7, 2014

22) A Houston Cervelli Made in Italy nel Mondo (In Houston Made in Italy Brains of the World). SiciliaInformazioni.com (one of Sicily's major online newspapers) – December 8, 2014

23) La Biomedicina degli "Italian Brain" (The Biomedicine of Italian Brains). La Repubblica (one of Italy's major national newspapers) – December 9, 2014

24) Decima Conferenza dei Ricercatori Italiani nel Mondo, un Trionfo Italiano (10th Conference of Italian Researchers in the World: An Italian Triumph). Agenzia Internazionale Stampa Estero – December 15, 2014

25) Si è Svolta a Houston la X Conferenza dei Ricercatori Italiani nel Mondo (The 10th Conference of Italian Researchers in the World Took Place in Houston). Inform – December 15, 2014

26) La Decima Conferenza dei Ricercatori Italiani nel Mondo, un Trionfo del Tricolore (The 10th Conference of Italian Researchers in the World: A Triumph of the Tricolor). Corriere di Puglia e Lucania– December 14, 2014; We the Italians magazine – December 16, 2014

27) Terrasini: Dall'altra parte della Luna (Terrasini: On the other side of the moon). Ilvespro.it – December 21, 2014; a similar article was also published on terrasinioggi.it – December 23, 2014

28) IT and US: Dall'Altra Parte della Luna (On the Other Side of the Moon). We the Italians magazine – March 8, 2015

29) Quei Siciliani che ce l'Hanno Fatta, Storie di Emigrati di Successo negli USA (Those Sicilians who Have Succeeded, Stories of Successful Emigrants to the USA). La Repubblica (one of Italy's major national newspapers) – March 30, 2015

30) Texas all'Italiana. L'Eldorado è qui (Texas the Italian Way. The Eldorado is Here). La Repubblica Sera (nightly edition of La Repubblica, one of Italy's major national newspapers) – October 5, 2015

31) Italian President Meets with Faculty Members at UTHealth. University of Texas McGovern Medical School News – March 17, 2016

32) Houston, abbiamo… un palermitano di successo: dall'Ismett agli Usa, Fabio Triolo non si ferma più. [Houston, we have…a successful native of Palermo, from ISMETT (Mediterranean Institute for Transplantation and Advanced Specialized Therapies) to the USA, Fabio Triolo is unstoppable]. insanitas.it (One of Italy's leading healthcare portals) – July 25, 2016

33) Due italiani impiantano il primo esofago artificiale. Salvato un malato di cancro (Two Italians implant first artificial esophagus. Saved a cancer patient). La Repubblica (one of Italy's major national newspapers) – August 15, 2017

34) USA, impiantato il primo esofago artificiale grazie a due italiani (USA, first artificial esophagus implanted thanks to two Italians). Il Giornale (one of Italy's major national newspapers) – August 15, 2017

35) Storico primo trapianto di esofago artificiale (Historical first transplant of artificial esophagus). blastingnews.com (leading global social news magazine) – August 15, 2017

36) Primo impianto di esofago artificiale: due Italiani a compiere l'impresa (First implant of an artificial esophagus: achieved by two Italians). biomedical.closeupengineering.it – August 15, 2017

37) Ricercatori italiani eseguono primo trapianto al mondo di esofago artificiale (Italian researchers perform first transplant in the world of artificial esophagus) scienze.fanpage.it – August 16, 2017

38) Esofago bioartificiale siciliano doc [Sicilian DOC (controlled designation of origin) bioartificial esophagus]. La Sicilia (one of Sicily's major newspapers) – August 21, 2017

39) Palermo: due siciliani in America impiantano il primo esofago bioartificiale (Palermo: two Sicilians in the USA implant first bioartificial esophagus). Eco di Sicilia (one of Sicily's online newspapers) – August 21, 2017

40) Trapiantato il primo esofago artificiale negli Usa: è opera di due ricercatori italiani (First artificial esophagus transplanted in the USA: achieved by two Italian researchers). Sanità Informazione (One of Italy's leading healthcare portals) – August 22, 2017

41) Impiantato il primo esofago artificiale realizzato da due Italiani (Implanted first artificial esophagus created by two Italians). Italiani.it (leading portal for Italians in the world) – September 7, 2017

42) L'esofago Siciliano (The Sicilian Esophagus). I Love Sicilia (one of Sicily's major magazines) – Vol. 134, December 2017

43) First-In-Human Case Using Biostage's Bioengineered Esophageal Implant is Presented at Major Surgical Meeting. PRNewswire – Jan. 28, 2019

44) Did you know donating umbilical cord blood could save a child's life? Q&A with Fabio Triolo, DdR, PhD. UTHealth News – July 26, 2019; newswise.com – July 29, 2019

45) New Moms Can Save a Life By Donating Cord Blood. US News & World Report; HealthDay News – August 5, 2019; News Health – August 6, 2019

Books

1) Goldstone, Bruce and Lascaro, Rita. Cells at Work: the Laboratory of Dr. Serafín Piñol-Roma. New York, NY: McGraw-Hill, 2002

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