
CURRICULUM VITAE OF DAVIDE MEDICA

A. Personal Statement

From 2006 to 2017, I worked in the laboratory "Renal Physiopathology and Angiogenesis" at the University of Turin, School of Medicine. I have worked under Prof. Giovanni Camussi, MD, and Prof. Vincenzo Cantaluppi, MD. In those years, I acquired knowledge in different fields of cellular and molecular biology.

I focused on the study of pathogenic mechanisms of kidney grafts, acute kidney injury (AKI), chronic kidney disease (CKD), and the study of stem cells' application as regenerative medicine.

Between 2007 and 2011, I have contributed to the Pancreatic Islet Isolation and Transplantation Facility of the University of Turin, where I performed ten pancreatic islet isolations, contributing to the start of the clinical program of islet-after-kidney-transplantation in uremic patients with type I diabetes. Apart from this clinical experience, I have dedicated the scientific research activity during PhD to the characterization of extracellular vesicles (EVs) derived from bone marrow stem cells such as endothelial progenitor cells. I characterized the protein profile through flow cytometry, and by PCR, I characterized the mRNA and microRNA expression profile. Using in vitro assays, I have demonstrated its pro-angiogenetic ability on endothelial cells of different origins. On renal epithelial cells, I have demonstrated its anti-apoptotic and proliferative ability.

Moreover, I have studied the effect of EVs on primary and immortalized kidney cells such as podocytes, mesangial cells, tubular cells, and endothelial cells in different experimental models (incubation in hypoxia or with cisplatin, pro-inflammatory cytokines, uremic toxins, immunosuppressive drugs, lipopolysaccharides, angiotensin II, and glycated albumin). In these models, I have demonstrated the anti-inflammatory, anti-apoptotic, and proliferative effects.

I analyzed the effect of EVs on kidney tissue on experimental models in vivo: on a model of blocking the complement cascade's activation on an experimental model of Thy1.1 glomerulonephritis on rats. On a renal ischemia/reperfusion model on rats, I demonstrated that the transfer of two microRNAs involved in angiogenesis (miR-126 and miR-296) is essential for repairing injury. In a pancreatic islet transplantation model, human islets, human pancreatic islets survive most in the presence of EPC-derived EVs.

Moreover, I have studied the role of growth factors and mediators such as Neutrophil Gelatinase-Associated Lipocalin (NGAL), Macrophage Stimulating Protein (MSP), Thrombospondin-1 (TSP-1), and Brain-Derived Neurotrophic Factor (BDNF) in experimental models in vitro of AKI. I have found that NGAL and MSP and being promising biomarkers of kidney function, induce kidney cells' regeneration. TSP is an angiogenesis inhibitor but has interesting immunoregulatory properties. BDNF is a potential regenerator of both glomerular and tubulointerstitial injury.

At the University of Eastern Piedmont in Novara, under Prof. Vincenzo Cantaluppi, MD, my research work has been mainly focused on translational medicine on studying the extracorporeal treatments of AKI in critically ill patients admitted to intensive care units and of CKD patients in collaboration with Dr. Vito Fanelli, my tutor of Medical School of University of Turin. I studied the EVs of patients affected by CKD and septic-associated AKI, demonstrating the harmful, pro-inflammatory, and pro-apoptotic effects. I evaluated some dialytic products to remove more pro-inflammatory factors, such as the EVs of nephropathic patients.

B. Personal Skills and competences

Languages

- Italian (mother language)
- English (excellent spoken and written)
- French (basic spoken and written)

Technical skills and competences

Cell biology techniques: Cell culture techniques: *in vitro* culture of human primary renal glomerular cells (mesangial cells, podocytes, and endothelial cells), renal tubular cells, endothelial progenitor cells, pancreatic islets, and umbilical vein endothelial cells. Culture of immortalized cell lines (HUVEC, HMEC, cancer cell lines, 293T etc.). Primary cell purification with immunomagnetic selection and cell sorting. In vitro assays (migration, invasion, tubulogenesis, and angiogenesis on Matrigel, BrdU, XTT, TUNEL). Isolation and characterization of cells and extracellular vesicles (FACS, Western Blot, Real Time-PCR, Nanosight).

Protein analysis techniques: Flow-cytometric analysis, Immunofluorescence on cells or tissues, Immunohistochemistry technique, Proteomic techniques (western blot and ELISA).

Molecular biology techniques: RNA, DNA, and protein purification and quantification; Gene expression analysis techniques (PCR, RT-PCR, Real-time PCR, mRNA gene-array, miRNA array); Purification of genomic and plasmid DNA; RNA interference with plasmid and small interfering RNA (siRNA); Transfection techniques (Amaxa).

Microscopy techniques: Immunofluorescence, Transmission Electron Microscopy and Confocal microscopy analysis.

Computer skills: Microsoft Office, Adobe Photoshop, GraphPad Prism, FlowJo, BD CellQuest™, ImageJ, SDS and Primer Express of Applied Biosystems, Leica Application Suite, Zeiss LSM Pascal, Nanosight NTA, Thermo Scientific™ NanoDrop™, ChemiDoc.

C. Positions and Honors

Positions and Employment

2006 - 2008 Biotechnologist trainee, University of Turin
2008 - 2009 Predoctoral Fellow, University of Turin
2009 - 2011 PhD student, University of Turin
2011 - 2017 Postdoctoral Researcher, University of Turin
2020 - Postdoctoral Researcher, University of Eastern Piedmont

Education

2002 - 2006 School of Biotechnology. University of Turin, Turin, Italy, B.S.
2006 - 2008 School of Medical Biotechnology, University of Turin, Turin, Italy, MSc.
2009 - 2011 Medical Physiopathology, Complex System for Life Sciences School, University of Turin, Italy, Ph.D.
2011 - Medical School, University of Turin, Turin, Italy.

Supervise and Mentoring

Co-tutor and training in laboratory for experimental thesis of:

- 2 biotechnologists (Diego Cortese, Michela Delena)
- 8 medical students (Sergio Dellepiane, Simone Cortazzi, Silvia Mingozi, Daniela Finocchietti, Marta Mora, Martina Mazzariol, Roberta Miglio, Erika Naso).
- 4 Medical Doctors specializing in nephrology: Elena Boaglio, Germana Daidola, Alessandro Domenico Quercia, Consuelo De Biase.
- 5 PhD students: Sergio Dellepiane Alessandro Domenico Quercia, Federica Civiletti, Alessandra Brocca, Michael Zorzi.

Other Experience and Professional Memberships

2012 - Member, Italian Society di Nephrology and Italian Society of Organ Transplantation
2019 - Member, American Society of Nephrology, International Society of Nephrology and European Renal Association-European Dialysis and Transplant Association
2021- Reviewer, (Journal of Inflammation Research)

Honours

- 2011 Poster of interest, 13th World Congress of International Pancreas and Islet Transplant Association (IPITA). June 1-4, 2011 Prague, Czech Republic.
- 2012 Best abstract of a young researcher (under 35 years old), 36th National Congress of the Italian Society of Organ Transplantation (SITO), Turin, Italy, October 18-20, 2012
- 2016 Best abstract at 13th Transplant Meeting at San Raffaele Hospital, May 13, 2016, Milan, Italy
- 2019 American Society of Nephrology (ASN) Kidney STARS program at Kidney Week 2019 in Washington, D.C.
- 2020 American Society of Nephrology (ASN) Kidney STARS program at Kidney Week 2020 online

Complete list of publications of Davide Medica

Further publications:

A) Publications with peer review process

1. Dal Bello, F.*, Zorzi, M., Aigotti, R., **Medica, D.**, Fanelli, V., Cantaluppi, V., Amante, E., Orlandi, V.T., Medana, C. (2021): Targeted and untargeted quantification of quorum sensing signalling molecules in bacterial cultures and biological samples via HPLC-TQ MS techniques. In: Analytical and bioanalytical chemistry, 413(3), pp.853-864.
2. **Medica, D.** Dellepiane, S., Cantaluppi, V.* (2020): Regenerative Role of Stem Cell-Derived Extracellular Vesicles in Acute Kidney Injury. In: Nephron, pp.1-6.
3. Salmi, L., Gavelli, F., Clara, A.G., **Medica, D.**, Patrucco, F., Bellan, M., Pier, P.S., Vaschetto, R., Della Corte, F., Smirne, C., Benech, A., Brucoli, M., Avanzi, G.C., Cantaluppi, V., Castello, L.M.* (2020): Plasma microvesicles in patients admitted to the emergency department for mild traumatic brain injury: first clues to understand their role. In: Minerva Biotechnologica, 32(3), pp.89-94.
4. Cavallari, C.§, Dellepiane, S.§, Fonsato, V., **Medica, D.**, Marengo, M., Migliori, M., Quercia, A.D., Pitino, A., Formica, M., Panichi, V., Maffei, S., Biancone, L., Gatti, E., Tetta, C., Camussi, G., Cantaluppi, V.* (2019): Online hemodiafiltration inhibits inflammation-related endothelial dysfunction and vascular calcification of uremic patients modulating miR-223 expression in plasma extracellular vesicles. In: The Journal of Immunology, 202(8), pp.2372-2383.
5. Civiletti, F., Assenzio, B., Mazzeo, A.T., **Medica, D.**, Giaretta, F., Deambrosis, I., Fanelli, V., Ranieri, V.M., Cantaluppi, V., Mascia, L.* (2019): Acute tubular injury is associated with severe traumatic brain injury: in vitro study on human tubular epithelial cells. In: Scientific reports, 9(1), pp.1-11.
6. Dellepiane, S.§, **Medica, D.§**, Guarena, C., Musso, T., Quercia, A.D., Leonardi, G., Marengo, M., Migliori, M., Panichi, V., Biancone, L., Pizzarelli, F., Camussi, G., Cantaluppi, V.* (2019): Citrate anion improves chronic dialysis efficacy, reduces systemic inflammation and prevents Chemerin-mediated microvascular injury. In: Scientific reports, 9(1), pp.1-10.
7. Cantaluppi, V.*, **Medica, D.**, Quercia, A.D., Dellepiane, S., Figliolini, F., Virzì, G.M., Brocca, A., Quaglia, M., Marengo, M., Olivieri, C., Senzolo, M., Garzotto, F., Della Corte, F., Castellano, G., Gesualdo, L., Camussi, G., Ronco, C. (2018): Perfluorocarbon solutions limit tubular epithelial cell injury and promote CD133+ kidney progenitor differentiation: potential use in renal assist devices for sepsis-associated acute kidney injury and multiple organ failure. In: Nephrology Dialysis Transplantation, 33(7), pp.1110-1121.
8. Dellepiane, S.§, **Medica, D.§**, Quercia, A.D., Cantaluppi, V.* (2017): The exciting “bench to bedside” journey of cell therapies for acute kidney injury and renal transplantation. In: Journal of nephrology, 30(3), pp.319-336. Erratum to: pp.337-338.
9. Cantaluppi, V.*, **Medica, D.**, Mannari, C., Stiaccini, G., Figliolini, F., Dellepiane, S., Quercia, A.D., Migliori, M., Panichi, V., Giovannini, L., Bruno, S., Tetta, C., Biancone, L., Camussi, G. (2015): Endothelial progenitor cell-derived extracellular vesicles protect from complement-mediated mesangial injury in experimental anti-Thy1. 1 glomerulonephritis. In: Nephrology Dialysis Transplantation, 30(3), pp.410-422.
10. Migliori, M.§*, Cantaluppi, V.§, Mannari, C., Bertelli, A.A., **Medica, D.**, Quercia, A.D., Navarro, V., Scatena, A., Giovannini, L., Biancone, L., Panichi, V. (2015): Caffeic acid, a phenol found in white wine, modulates endothelial nitric oxide production and protects from oxidative stress-associated endothelial cell injury. In: PLoS One, 10(4), p.e0117530.
11. Cantaluppi, V.*, Dellepiane, S., Tamagnone, M., **Medica, D.**, Figliolini, F., Messina, M., Manzione, A.M., Gai, M., Tognarelli, G., Ranghino, A., Dolla, C., Ferrario, F., Tetta, C., Segoloni, G.P., Camussi, G., Biancone, L. (2015): Neutrophil gelatinase associated lipocalin is an early and accurate biomarker of graft function and tissue regeneration in kidney transplantation from extended criteria donors. In: PLoS One, 10(6), p.e0129279.

12. Cantaluppi, V., Gatti, S., **Medica, D.**, Figliolini, F., Bruno, S., Deregibus, M.C., Sordi, A., Biancone, L., Tetta, C., Camussi, G.* (2012): Microvesicles derived from endothelial progenitor cells protect the kidney from ischemia–reperfusion injury by microRNA-dependent reprogramming of resident renal cells. In: *Kidney international*, 82(4), pp.412-427.
13. Cantaluppi, V., Biancone, L., Figliolini, F., Beltramo, S., **Medica, D.**, Deregibus, M.C., Galimi, F., Romagnoli, R., Salizzoni, M., Tetta, C., Segoloni, G.P., Camussi, G.* (2012): Microvesicles derived from endothelial progenitor cells enhance neoangiogenesis of human pancreatic islets. In: *Cell transplantation*, 21(6), pp.1305-1320.
14. Cantaluppi, V.*, Quercia, A.D., Dellepiane, S., Figliolini, F., **Medica, D.**, De Lena, M. (2012): New mechanisms and recent insights in the pathogenesis of acute kidney injury (AKI). In: *Giornale italiano di nefrologia: organo ufficiale della Societa italiana di nefrologia*, 29(5), pp.535-547.
15. Biancone, L.*, Bussolati, B., Mazzucco, G., Barreca, A., Gallo, E., Rossetti, M., Messina, M., Nuschak, B., Fop, F., **Medica, D.**, Cantaluppi, V., Camussi, G., Segoloni, G.P. (2010): Loss of nephrin expression in glomeruli of kidney-transplanted patients under m-TOR inhibitor therapy. In: *American Journal of Transplantation*, 10(10), pp.2270-2278.

B) Submitted publications with peer review process

1. **Medica, D.**, Franzin, R., Stasi, A., Castellano, G., Migliori, M., Panichi, V., Camussi, G., Cantaluppi, V.* Extracellular Vesicles derived from Endothelial Progenitor Cells inhibit complement- and cytokine-mediated injury of renal glomerular endothelial cells and podocytes. (publisher's acknowledgement of receipt enclosed)

C) Publications without peer review process

1. **Medica, D.**, Franzin, R., Stasi, A., Castellano, G., Migliori, M., Panichi, V., Camussi, G., Cantaluppi, V.* (2020). Extracellular Vesicles Derived from Endothelial Progenitor Cells Protect Human Glomerular Endothelial Cells and Podocytes from Complement-and Cytokine-Mediated Injury. *angiogenesis*, 10, p.11.
2. Cantaluppi, V. *, **Medica, D.**, Dellepiane, S., Merlotti, G., Airolidi, A., Quaglia, M., Castellano G., Gesualdo L., Camussi, G. (2018). Endothelial Progenitor Cell-Derived Extracellular Vesicles Inhibit Kidney Ischemia-Reperfusion Injury through the Transfer of Specific microRNA and mRNA Coding for the Complement Inhibitors CD55, CD59, Factor H and for the Transcription Factor NRF2: Relevance for Delayed Kidney Graft Function. *American Transplant Congress. Seattle, WA, June, 2018* in: *American Journal Of Transplantation*, Vol. 18, pp. 502-502.
3. Cantaluppi V. *, Merlotti G., **Medica D.**, Dellepiane S., Airolidi A., Quaglia M., Castellano G., Gesualdo L., Camussi G. (2018): Endothelial Progenitor Cell-Derived Extracellular Vesicles Inhibit Kidney Ischemia-Reperfusion Injury through the transfer of Specific microRNA and mRNA Coding for the Transcription Factor NRF2. *XXVII TTS Congress. Madrid, Spain, June, 2018* in: *Transplantation July 2018; Volume 102 - Issue - p S351*.
4. Battista, M., Musetti, C., Palmieri, D., Miglio, R., **Medica, D.**, Quaglia, M., Cantaluppi, V. * (2018): Evaluation of soluble circulating mediators of fibrosis in idiopathic retroperitoneal fibrosis: from pathogenesis to biomarkers. *55th ERA-EDTA Congress May 2018, Copenhagen, Denmark* in: *Nephrology Dialysis Transplantation*, Vol. 33, suppl_1, i41–i41.
5. Marengo, M., Migliori, M., **Medica, D.**, Panichi, V., Ronco, C., Cantaluppi, V.* (2018). Role of Soluble Form and Extracellular Vesicle (EV)-Carried CD40ligand (CD40L) As Biomarker Of Disease Activity And As Mediator Of Microvascular Endothelial Injury In Critically Ill Patients With Acute Kidney Injury (AKI) and in End Stage Renal Disease (ESRD) Patients. *55th ERA-EDTA Congress May 2018, Copenhagen, Denmark* in: *Nephrology Dialysis Transplantation*, Vol. 33, suppl_1, i71.
6. Cantaluppi, V.*, Dellepiane, S., Quaglia, M., Airolidi, A., **Medica, D.**, Quercia, A. D., Camussi, G. (2017). Extracellular vesicles derived from bone marrow mesenchymal stem cells inhibit T cell proliferation, promote regulatory T cell differentiation and limit immune-mediated tubular injury through transfer of specific RNAs: Potential protective role in T-cell-mediated kidney graft rejection. *14th Congress of The International Xenotransplantation Association, Baltimore, USA. September 23-25, 2017* in: *Xenotransplantation*, Vol. 24, No. 5.

7. Cantaluppi, V.*, **Medica, D.**, Quercia, A., Dellepiane, S., Quaglia, M., Airoidi, A., Camussi, G. (2017, September). Extracellular vesicles derived from endothelial progenitor cells protect from antibody-mediated endothelial injury through transfer of specific mRNAs and microRNAs involved in complement inhibition and graft accommodation. 14th Congress of The International Xenotransplantation Association, Baltimore, USA. September 23-25, 2017 in: *Xenotransplantation*, Vol. 24, No. 5.
8. Marengo, M., Radin, E., **Medica, D.**, Nebiolo, P. E., Pacitti, A., Formica, M., Cantaluppi, V*. (2017). Identification of early biomarkers of arteriovenous fistula (AVF) stenosis: the role of circulating plasma microvesicles (MV). 54th ERA-EDTA Congress 2017, June 3-6 Madrid, Spain in: *Nephrology Dialysis Transplantation* (Vol. 32).
9. Brocca, A.*, **Medica, D.**, Piano, S., Romano, A., Tonon, M., Sticca, A., Cantaluppi V., Angeli, P. (2017). Extracellular vesicles induce renal tubular cells apoptosis, oxidative stress and functional abnormalities in patients with an acute decompensation of cirrhosis. The International Liver Congress Amsterdam 19-23 April, 2017 in: *Journal of Hepatology*, 1(66), S145-S146.
10. Cantaluppi, V.*, **Medica, D.**, Quercia, A. D., Quaglia, M., Airoidi, A., Merlotti, G., Migliori, M., Dellepiane, S., Battista, M., Nappo, A., Mazzariol, M., Panichi L., Biancone L., Camussi, G. (2017). Macrophage Stimulating Protein Promotes Tubular Regeneration and Cd133+ Renal Progenitor Differentiation After Ischemia-Reperfusion Injury: Potential Protective Role In Delayed Kidney Graft Function. 16th Annual Congress of the French Speaking Society of Transplantation, Liège, Belgium, 6-9 December 2016 in: *Transplant International*, Vol. 30, pp. 500-500.
11. Cantaluppi, V.*, **Medica, D.**, Quercia, A. D., Merlotti, G., Quaglia, M., Airoidi, A., Battista, M., Mazzariol, M., Cortazzi, S., Castellano, G., Biancone, L. (2017). Pathogenic role of anti-HLA antibodies on endothelial progenitor cell dysfunction in highly sensitized kidney transplant recipients. 16th Annual Congress of the French Speaking Society of Transplantation, Liège, Belgium, 6-9 December 2016 in: *Transplant International*, Vol. 30, pp. 166-166.
12. Cantaluppi, V.*, Quercia, A., Dellepiane, S., **Medica, D.**, Biancone, L. (2016). A 15-Year Retrospective Analysis of Acute Kidney Injury in Non Renal Solid Organ Transplant Recipients: Incidence, Outcome and Progression Toward End Stage Chronic Kidney Disease. American Transplant Congress June 11-15, 2016 Boston, Massachusetts in: *American Journal Of Transplantation*, Vol. 16, pp. 522-522.
13. Cantaluppi, V.*, Dellepiane, S., **Medica, D.**, Tognarelli, G., Quaglia, M., Musetti, C., Airoidi A., Biancone, L. (2016). Pathogenic Role of Anti-HLA Antibodies on Endothelial Progenitor Cell Dysfunction of Highly Sensitized Kidney Transplanted Patients. American Transplant Congress June 11-15, 2016 Boston, Massachusetts in: *American Journal Of Transplantation*, Vol. 16, pp. 410-410.
14. Cantaluppi, V.*, **Medica, D.**, Medana, C., Orlandi, V., Quercia, AD, Virzì, GM, Ronco, C. (2016). GRAM negative-derived quorum sensing molecules are responsible for sepsis-associated acute kidney injury. 53rd Congress May 21-24 2016, Wien, Austria In: *Nephrology Dialysis Transplantation*, Volume 31, Issue suppl_1, Page i64.
15. Cantaluppi, V.*, **Medica, D.**, Tognarelli, G., Quaglia, M., Musetti, C., Airoidi, A., Biancone, L. (2016). Pathogenic role of anti-HLA antibodies on endothelial progenitor cell dysfunction in highly sensitized kidney transplant recipients. in *nephrology dialysis transplantation*. 53rd Congress May 21-24 2016, Wien, Austria in: *Nephrology Dialysis Transplantation*, Volume 31, Issue suppl_1, Page i2.
16. Cantaluppi, V.*, **Medica, D.**, Migliori, M., Marengo, M., Diena, D., Biancone, L., Formica, M., Panichi, V. (2016) Biological Effects of Polymethylmethacrylate (PMMA) Membrane On Serum Levels Of Soluble CD40-Ligand, A Middle Molecule Involved In Atherogenic Inflammation and Cardiovascular Mortality Of Hemodialysis Patients. 53rd Congress May 21-24 2016, Wien, Austria in: *Nephrology Dialysis Transplantation*, Volume 31, Issue suppl_1, Page i298.
17. Medana, C.*, Dal Bello, F., Santoro, V., Martano, C., **Medica, D.**, Quercia, A.D. and Cantaluppi, V. (2015). Quantification of quorum sensing molecules and their interaction with polymixin-B hemoperfusion in human plasma by LC-HRMS. From 31st May to 4th June, 2015, St. Louis, Missouri In: 63rd ASMS Conference on Mass Spectrometry, pp. TP626-TP626.

18. Cantaluppi, V.*, **Medica, D.**, Quercia, A.D., Dellepiane, S., De Lena, M., Colla, L., Besso, L., Burdese, M., Biancone, L., Camussi, G. (2015) SaO040 Extracellular Vesicles Derived From Endothelial Progenitor Cells Limit Complement-Induced Neutrophil Activation And Endothelial Injury In ANCA-Associated Vasculitis. 52nd ERA-EDTA Congress May 28-31 London, UK 2015, in: Nephrology Dialysis Transplantation, Volume 30, Issue suppl_3, pp.iii40-iii41.
19. Cantaluppi, V.*, **Medica, D.**, Quercia, A.D., Dellepiane, S., Boaglio, E., Clari, R., Marengo, M., Migliori, M., Formica, M., Panichi, V., Biancone, L. (2015) SaO037 Circulating Plasma Extracellular Vesicles Trigger Inflammation And Hamper Innate And Adaptive Immune Response In Patients With End Stage Chronic Kidney Disease. 52nd ERA-EDTA Congress May 28-31 London, UK 2015, in: Nephrology Dialysis Transplantation, Volume 30, Issue suppl_3, pp.iii39-iii39.
20. Mella, A., Cantaluppi, V., Burdese, M., **Medica, D.**, Cortazzi, S., Colla, L., Besso, L., Biancone, L.* (2015). SP053 Clinical, Prognostic And Pathogenetic Role Of AntiPLA2R Antibodies In Membranous Nephropathy-Associated Podocyte Dysfunction. 52nd ERA-EDTA Congress May 28-31 London, UK 2015, in: Nephrology Dialysis Transplantation, 30, suppl_3, pp.iii397-iii398.
21. Dellepiane, S., Cantaluppi, V.*, Guarena, C., **Medica, D.**, Musso, T., Leonardi, G., Talaia, M., Gai, M., Anania, P., Biancone, L., (2015) FO004 Citrate Buffers Increase Dialysis Efficiency And Reduce Biomarkers Of Inflammation, Endothelial Dysfunction And Vascular Calcification: A Monocentric Translational Study. 52nd ERA-EDTA Congress May 28-31 London, UK 2015, in: Nephrology Dialysis Transplantation, 30, suppl_3, pp.iii2-iii2.
22. Cantaluppi, V.*, Quercia, A.D., **Medica, D.**, Dellepiane, S., Biancone, L., Tetta, C., Pacitti, A. and Camussi, G., (2015). FP199 Protective Effect Of High Molecular Flow Membranes On Inflammatory And Myoglobin-Associated Acute Kidney Injury In Patients With Rhabdomyolysis After Major Cardiac Surgery. 52nd ERA-EDTA Congress May 28-31 London, UK 2015, in: Nephrology Dialysis Transplantation, 30, suppl_3, pp.iii133-iii134.
23. Cantaluppi, V., Civiletti, F., **Medica, D.**, Mazzeo, A., Assenzio, B., Mastromauro, I., Deambrosio, I., Giaretta, F., Fanelli, V., Mascia, L.* (2014). Extracranial Organ Dysfunction Due to Systemic Inflammation in Critically Ill Patients With Traumatic Brain Injury: A Potential Cause of Subclinical Acute Renal Damage in Kidney Transplantation Donors. World transplant congress. July 26 – 31, 2014; San Francisco, California in: Transplantation: July 15, 2014 - Volume 98 - Issue - p 249
24. Civiletti, F., Cantaluppi, V., **Medica, D.**, Mazzeo, A.T., Assenzio, B., Mastromauro, I., Deambrosio, I., Giaretta, F., Fanelli, V., Mascia, L.* (2014) Association of traumatic brain injury with extracranial organ dysfunction and systemic inflammation: a potential cause of subclinical acute kidney injury in transplant donors. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 325.
25. Cantaluppi, V.*, **Medica, D.**, Figliolini, F., Quercia, A.D., Dellepiane, S., Virzi, G.M., Ronco, C., Tetta, C., Biancone, L., Camussi, G. (2014) Regenerative potential of extracellular vesicles derived from endothelial progenitor cells in sepsis-associated acute kidney injury. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 63.
26. Quercia, A.D., Cantaluppi, V.*, Dellepiane, S., **Medica, D.**, Besso, L., Gai, M., Leonardi, G., Guarena, C., Biancone, L. (2014) Clinical relevance of acute kidney injury on outcome and residual renal function of patients with multiple myeloma. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 113.
27. Cantaluppi, V.*, **Medica, D.**, Quercia, A.D., Dellepiane, S., Gai, M., Leonardi, G., Guarena, C., Migliori, M., Panichi, V., Biancone, L., Camussi, G. (2014). Circulating extracellular vesicles in patients with end stage chronic kidney disease: new uremic toxins involved in inflammation, endothelial dysfunction and vascular calcification. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 151.
28. Finocchietti, D., Cantaluppi, V.*, **Medica, D.**, Daidola, G., Colla, L., Besso, L., Burdese, M., Segoloni, G.P., Biancone, L., Camussi, G., (2014). The anti-proteinuric effect of adrenocorticotrophic hormone in patients with resistant nephrotic syndrome is related to its direct activity on glomerular and tubular epithelial cells. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 194.

29. Cantaluppi, V.*, **Medica, D.**, Quercia, A.D., Dellepiane, S., Ferrario, S., Gai, M., Leonardi, G., Guarena, C., Caiazzo, M., Biancone, L. (2014) Coupled plasma-filtration adsorption (CPFA) reduces tubular injury in bile-associated cast nephropathy through direct adsorption of bilirubin and liver-type fatty acid binding protein. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 219.
30. Migliori, M., Cantaluppi, V., **Medica, D.**, Paoletti, S., Panichi, V.* (2014) Polymethylmethacrylate (PMMA) reduces sCD40L plasma levels in hemodialytic patients. results from a preliminary study. 51st ERA-EDTA Congress Amsterdam 31st May- 3rd June 2014 in: Nephrology Dialysis Transplantation, Vol. 29, pp. 287-288.
31. Civiletti, F., Mazzeo, A., Borelli, F., Fanelli, V., Sollazzo, A., Costa, L., Toso, S., Cavallo, S., Bernardino, M., Assenzio, B., Martin, E., Elia, V., Mastromauro, I., Filippini, C., **Medica, D.**, Cantaluppi, V., Mascia, L*. (2013). Extracranial organ dysfunction after traumatic brain injury: effect of plasma of brain injured patients on systemic endothelial and kidney epithelial function. 31st National Neurotrauma Symposium, Nashville 3-5 August 2013 in: Journal of Neurotrauma Volume: 30 Issue 15.
32. Cantaluppi, V.*, Figliolini, F., **Medica, D.**, Quercia, A.D., Inguaggiato, P., Pacitti, A., Camussi, G., Tetta, C. (2013) Association between regional citrate anticoagulation and enhanced permeability hemodialyzers limits sepsis-associated acute kidney injury through the increased clearance of inflammatory cytokines (IL-6) and microvesicles. 50th ERA-EDTA Congress II DGfN 18-21 May 2013 Istanbul, Turkey, in: Nephrology Dialysis Transplantation, Vol. 28, pp. 76.
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§ = **Equally contribution**

The following above mentioned publications have evolved from my doctoral dissertation: A2, A9, B1, C1, C50.

as of February 2021

[Cells] Manuscript ID: cells-1163997 - Assistant Editor Assigned

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17 marzo 2021 20:35

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Dear Dr. Medica,

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Journal: Cells

Manuscript ID: cells-1163997

Title: Extracellular Vesicles Derived from Endothelial Progenitor Cells Protect Human Glomerular Endothelial Cells and Podocytes from Complement- and Cytokine-Mediated Injury

Authors: Davide Medica, Rossana Franzin, Alessandra Stasi, Giuseppe Castellano, Massimiliano Migliori, Vincenzo Panichi, Loreto Gesualdo, Giovanni Camussi, Vincenzo Cantaluppi *

Received: 15 March 2021

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