

ROBERTA BULLA Ph.D. CURRICULUM VITAE



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CERTIFICATIONS

2016: Obtained the National Scientific Qualifications (ASN) to become associate professor in General Pathology sector 06/A2-Bando 2016 (DD n. 222/2012)

July 2002: appointed expert in the subject of Immunology (Scientific disciplinary sector MED/04) by the Medical Faculty of the University of Trieste

April 1993 obtained the certification as a biologist and regularly enrolled in the National Biologists' Register.

EDUCATION

2002 PhD Degree in Experimental and Clinical Pathology, University of Trieste,
Dissertation: "*Il ruolo del trofoblasto nel rimodellamento delle arterie spirali in decidua in condizioni fisiologiche e patologiche della gravidanza*". (The role of trophoblast cells in spiral arteries remodelling in physiological and pathological pregnancies)

1993 B.S. Degree in Biology, University of Trieste
Dissertation: "*Ruolo delle proteine cationiche granulari degli eosinofili nell'attivazione dei macrofagi*". (Role of granular cationic protein of eosinophils in the macrophage activation)

EMPLOYMENT

2006-present *University researcher of Immunology* at the Medical Faculty and then Department of Life Sciences, University of Trieste.

2005-present Lecturer of Immunology Courses taught include Basic immunology and Immunopathology, Direct senior thesis, Direct PhD thesis, Coordinate student internships

2001-2005 Post Doc Fellow SSD MED/04, Department of Physiology and Pathology University of Trieste
Research activity: Immunological studies on human pregnancy

1994-1995 Fellow IRCCS Burlo Garofolo Trieste.
Research activity: Immunological studies on human sperm

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PERSONAL STATEMENT

The main research interest since 1994 has been in the study of the Innate Immunity in defence and tissue remodelling. She has worked in the field of Reproductive Immunology for the past 20 years on a wide range of topics with particular regard to the role of complement system in early human placental development and implantation. The following major areas of research related to the complement system have been covered:

- 1) Interaction of the complement system with cells involved in the inflammatory process, with particular regard to endothelial cells and macrophages.
- 2) Study of the local synthesis of complement components.
- 3) Role of the complement system in tissue and vascular remodelling in the first trimester of pregnancy.
- 4) Role of the complement system in tumour progression and development.

The research program coordinated by Roberta Bulla is mainly focused in trying to define the contribution of innate immunity, with particular regard to the complement system and macrophages, to embryo implantation in physiologic and pathologic pregnancy. The group has dedicated its research activity on reproductive immunology and developed techniques to set up primary culture of cells isolated from human tissues with particular regard to endothelial cells (from normal and pathological decidua, uterus and skin) villous and extravillous trophoblast and other decidual cells which are now routinely employed for several research projects. Since women with endometriosis have a lower implantation rate and, at first pregnancy, have an increased risk of impaired obstetric outcome, we extended our interested to the study of the immunological mechanisms involved in this chronic disorder.

More recently Bulla's group extended its study to the alternatives roles of the complement system in tumour growth and invasion since tumour cells have borrowed many of the mechanisms for invasion used by the trophoblast to intrude into host tissue and to establish their blood supply.

The scientific output of Roberta Bulla consists of 127 publications of which 4 book chapters and 55 peer-reviewed research papers published in international journals, such as, Nature communication, P.N.A.S., Blood, Scientific Reports, Journal of Immunology, European Journal of Immunology, Arthritis and Rheumatism, Journal of Allergy and Clinical Immunology, Journal of Reproductive Immunology, Human Reproduction, Molecular Immunology, Journal of Reproductive Immunology, American Journal of Reproductive Immunology, Mediators of Inflammation. Her global impact factor is 253 and mean impact factor per paper is 4.6. She has 1774 citations and an Hirsch Index (HI) of 23 (Scopus). From 1998 she has lectured at about 30 international congresses and meetings.

She has been a member of a workpackage of a E.E.C project ,the European Network of Excellence "Embryo Implantation Control"(EMBIC) (research project N° LSHM-CT-2004-512040 of 7,4 millions euros), which ran from 2004 to 2008. This highly successful network involved collaborations between 20 laboratories and 8 IVF units from 11 european countries. She was involved in the teaching activity at the EMBIC Summer School. She has also been involved in many other research projects founded by Italian Minister of University and Research (MIUR), Associazione Italiana Ricerca sul Cancro (AIRC), Friuli Venezia Giulia (Italy) grant.

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TECHNOLOGY TRANSFER

2017_winner of the START CUP FVG 2017 competition – section IDEAS with the project MY D TEST. She is working for the development of a new test for the evaluation of the complement system in human serum.

PROFESSIONAL ASSOCIATIONS

- Member of the Italian Society of Immunology (SIICA) <http://www.siica.org/>
- Member of the European Society of Reproductive Immunology (ESRI) <http://www.esri.org.hu/>
- Member of the International Complement Society <http://www.complement.org/>
- Member of MITO: multicentre Italian Trials in Ovarian Cancer

PROFESSIONAL SERVICE

2017: Member of the Editorial Board of Frontiers of Immunology

2017: Member of the Editorial Board of Scientific Reports

Reviewer for

- Molecular Innate Immunity, part of the journal(s) Frontiers in Immunology.
- Cell Transplantation,
- Clinical and Experimental Immunology,
- European Journal of Obstetrics & Gynecology and Reproductive Biology,
- Endocrinology,
- PlosOne,
- Scientific Reports,
- Molecular Human Reproduction,
- American Journal of Reproductive Immunology.
- Clinical Biochemistry
- Human Immunology
- Others...

RESEARCH GRANTS

- 1) 2003-2005 "Italian Minister of University and Research (MIUR) (Position in the project: Participant)
- 2) 2004-2008 PF6 NoE €400.000 (Position in the project: Participant)
- 3) 2006. "Young Researcher grant" University of Trieste (Position in the project **Principal Investigator**)
- 4) 2005-2007 "Italian Minister of University and Research (MIUR)" (Position in the project: Participant)
- 5) 2007-2009 "Italian Minister of University and Research (MIUR)" (Position in the project: Participant)
- 6) 2009-2012 "Italian Association for Cancer Research (AIRC)" (Position in the project: Participant)
- 7) 2010-2012 "Italian Minister of University and Research (MIUR)" (Position in the project: Participant)
- 8) 2011-2012 "Friuli Venezia Giulia grant" (Position in the project: Participant)
- 9) 2013 Casali Foundation Trieste (Position in the project **Principal Investigator**)
- 10) 2014 Pizetapharma (Position in the project **Principal Investigator**)
- 11) 2016 Fondazione Cassa di Risparmio di Trieste (Position in the project **Principal Investigator**)
- 12) 2017 MIUR: FONDO PER IL FINANZIAMENTO DELLE ATTIVITA' BASE DI RICERCA (Position in the project **Principal Investigator**)
- 13) 2018 Fondazione Cassa di Risparmio di Trieste (Position in the project **Principal Investigator**)
- 14) 2018 POR-FESR 2014-2020 TICHEP – "Tecnologie Innovative per la Chemioterapia Personalizzata" total cost of the project:€ 1.185.422, € local unit 219.314,60. (Position in the project **Principal Investigator** for UNITS unit)
- 15) 2018 POR-FESR 2014-2020 PREFER – "SvilUppto di un prodotto biocompatibile per la TERapia delle ferite Difficili" total cost of the project€ 1.099.962, UNITS unit €115.373,24. (Position in the project **Principal Investigator**)
- 16) Prin 2017. "Prostate cancer: disentangling the relationships with tumor microenvironment to better model and target tumor progression". Durata: 36 mesi. Coordinatore nazionale: Valeria Poli (UniTO). Resp. unità locale: Licio Collavin (UniTS). (Position in the project: Participant)
- 17) AIRC IG2018, "Cell non-autonomous downregulation of DAB2IP in the tumor niche. Biological impact and therapeutic opportunities" Durata: 60 mesi. PI: Licio Collavin (UniTS) (Position in the project: external collaborator)

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- 18) Regione FVG 2018. MESSA A PUNTO DI UN NUOVO TEST IN VITRO PER LA TERAPIA PERSONALIZZATA DEI PAZIENTI AFFETTI DA MESOTELIOMA PLEURICO MALIGNO ED IDENTIFICAZIONE DI NUOVI TARGET TERAPEUTICI. PI Marco Confalonieri. (Position in the project: Participant)

Since 2008 she participate as External collaborator to several "Ricerca Corrente" grants of IRCCS Burlo Garofolo Child Hospital:

RC 41\08: STUDIO DEI FATTORI COINVOLTI NELLA PATOGENESI DELLA PRE-ECLAMPSIA. Responsabile De Seta.

RC 01\09: CARATTERIZZAZIONE FENOTIPICA DI CELLULE ENDOTELIALI DECIDUALI IN RISPOSTA A STIMOLI PRO-INFIAMMATORI: STUDIO DEL RUOLO DI UN DEFICIT DI DECIDUALIZZAZIONE ENDOTELIALE NELLA POLIABORTIVITA' Responsabile De Seta

RC 34\11: Studio dei fattori immunologici nel controllo dell'infiammazione a livello dell'interfaccia materno-fetale. Responsabile Radillo

RC 08\13: Studio del possibile ruolo terapeutico della proteina ricombinante: mbl/ficolin associated protein-1 (map-1) in un modello sperimentale di pre-eclampsia. Responsabile Radillo

RC 20\16: Ricerca di variazioni nel trascrittoma uterino e ovarico correlate a neoplasie (benigne e maligne), fertilità, impianto. Responsabile Ricci

RC23\18: Studio preclinico sull'autotrapianto di tessuto ovarico per la conservazione della fertilità delle pazienti oncologiche. Responsabile Ricci

INTERNATIONAL CONGRESSES AND MEETINGS

CHAIRMAN AND REVIEWER OF THE SUBMITTED ABSTRACTS OF THE TOPIC "COMPLEMENT" at THE II JOINT MEETING OF THE GERMAN SOCIETY FOR IMMUNOLOGY (DGFL) AND THE ITALIAN SOCIETY OF IMMUNOLOGY, CLINICAL IMMUNOLOGY AND ALLERGOLOGY (SIICA)10–13 SEPTEMBER 2019 • MUNICH (DE)

INVITED SPEAKER

- **Fisiopatologia del sistema immunitario a livello di unità feto-placentare. Fattori favorevoli lo sviluppo o l'inibizione delle malattie immunomediate in gravidanza.** Incontro di aggiornamento scientifico professionale: Malattie immunomediate sistemiche e gravidanza; Trieste, Hotel Savoia Excelsior, 7 dicembre 2018.
- **The Complement System at Embryo Implantation Site. European Society for Reproductive Immunology (ESRI) Conference. Oxford 24th September 2015**
- **Non canonical roles of the complement system at maternal-fetal interface.** 51th Japanese Complement Symposium. Kobe, Japan. 22-23 August 2014.
- **Alternative roles of the complement system.** Seminario Università La Sapienza, Roma. 3rd July 2013.
- **"The complement system at feto-maternal interface: a double edged sword.** ISSHP European Congress, Tromsø, Norway. 12th-14th of June 2013.
- **"Emerging roles of the complement system in the pathogenesis of preeclampsia.** 7th ESIDOG Conference. Trieste, Italy, October 2nd-5th 2010.
- **Lezione dal titolo Pathophysiology of the complement system.** Fourth EMBIC summer school Barcellona 2-6 giugno 2008.
- **"Isolation and culture of endothelial and stromal cells"** Second EMBIC summer school. University of Pecs, Hungary. July 1-4, 2006.
- **"gravidanza: soluzione naturale al problema della tolleranza allo immunitaria?" (Pregnancy: natural solution to tolerance?)** Stage in Ematologia dal titolo "autoimmunità: meccanismi di azione e disordini clinici". Bologna 13/17 giugno 2005.

SELECTED ORAL COMMUNICATIONS

- **The complement component C3 is expressed by the endometrial ectopic tissue and is involved in the endometriotic lesion formation.** 17th European Meeting on Complement in Human Disease (EMCHD 2019) Madrid, September 2019
- **Analysis of anti-C1q antibodies in normal and pathological pregnancies.** ESRI, Aalborg August 2018

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- **Complement protein C1q production in Malignant pleural Mesothelioma.** SIICA Bari 30th May 2017
- **C1q as a potential new therapeutical target in Malignant Pleural Mesothelioma** SIICA Abano Terme 27th May 2016
- **Dual role of the complement system in preeclampsia.** 14th European Meeting on Complement in Human Disease" Uppsala June 2015
- **C1q secreted in the tumour microenvironment promotes tumour growth in the absence of complement activation.** XXIV international Complement Workshop. Chania, Crete, Greece October 10-15 2012
- **"The alternative role of the complement system in the progression of pregnancy.** Festschrift for Francesco Tedesco, Trieste, Italy, July 3rd 2010.
- Fourth EMBIC summer school Barcellona 2-6 giugno 2008. **Lezione dal titolo Pathophysiology of the complement system (Invited speaker)**
- **C1q promote interstitial trophoblast invasion.** VIth European Congress of Reproductive Immunology. Moscow June 30-july 3 2008.
- **"C1q is involved in Human Trophoblast Invasion"** 11th European Meeting on Complement in Human Disease". Cardiff, UK, September 8-11 2007.
- **Endovascular trophoblast invasion is mediated by C1q produced by endothelial cells in decidua.** 5th National Conference SIICA. Trieste, Italia, June 6-9 2007.
- **"EMILIN-1 is involved in human trophoblast invasion towards decidual vessels** Workshop "Stroma e matrice extracellulare nei microambienti fisiologici e patologici", Certosa di Pontignano, Siena, Italy, September 11-13 2006.
- **C1q is produced by decidual endothelial cells and favour trophoblast-endothelial cell interaction** VI international Workshop on C1, the first component of complement and collectins and ficolins. Lufthansa-center Jugenheim-Seeheim. June 16-18, 2006.
- **"EMILIN-1 is involved in human trophoblast invasion towards decidual vessels".** European Congress of Reproductive Immunology. University of Essex. UK. September 11-15 2005.
- **Meccanismi immunologici nelle prime fasi della gravidanza. (Immunological mechanisms in early pregnancy)** "L'intervento tecnologico nella riproduzione umana oggi" (Area Science Park Padriciano, Trieste, Italy, 22-23 novembre 2002).
- **"Deposition of complement components in decidua and their role in vascular remodelling".** 9th European Meeting on Complement in Human Disease. Trieste, Italy, September 6-9, 2003.
- **"Deposition of complement components in placental decidua and their role in vascular remodelling"** Concerted Action del **FP5** dal titolo "Complement in disease" Lund, 12-13 marzo 2004.
- **"MBL, C1q and C3 are important recognition units in the cervico-vaginal tract".** The first EMBIC Summer School "Embryo implantation: from basics to clinics". Malinska, Croatia, June 4th-10th, 2005.
- **"Interazione immune tra madre e feto in gravidanza fisiologica e patologica" (foeto-maternal immune interaction in physiological and pathological pregnancies)** 1st annual meeting of the Immunology and Clinical Immunology Society. Milano, 25-28 aprile 1999.

PARTICIPATION TO SCIENTIFIC MEETINGS:

As member of a E.E.C project, the European Network of Excellence titled "*The control of Embryo implantation: studies of gene expression, protein profiles/function at the utero embryonic level: cellular and molecular developmental events at the feto maternal interface*", acronym "Embryo Implantation Control"(EMBIC) (research project N° LSHM-CT-2004-512040 of 7,4 millions euros), she attended several scientific meetings held in Rijeka (Croatia) 22-24 March 2002, Weimar and Jena 20 September 2003, Paris, Pasteur institute 6 January 2003, Paris, INSERM 5 July 2003, Paris, INSERM 13 September 2003, Paris, INSERM 11-12 June 2004, Paris, INSERM 23 July 2004, Paris, INSERM 14 January 2005. Malinska Croatia, 4 June 2005, Berlino 14-16 October 2005, Firenze 23-24 September 2006, Tolosa 24-26 November 2006, Oxford 30-31 March 2007, Trieste 5-6 October 2007, Barcellona 17-18 November 2007, Martinique 7-14 September 2008.

She participated to several meetings within the FP5 Concerted Action "Complement in disease" held in Trieste 6 September 2003, Lund (Sweden) 12-13 march 2004 (oral presentation titled eposition of complement components in placental decidua and their role in vascular remodelling, Leiden (Holand) 5 June 2004, Thessaloniki (Grecia) 8-10 ottobre 2004

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Scientific meeting with Prof. Francis Francken "Laboratoire de Biologie des tumeurs et du développement"
Liège, Belgium 4-5 May 2004

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PUBLICATIONS

Total IF 275.80,

Official H Index: Scopus 24, Web of Science 24, Google Scholar 26

1. Chiara Agostinis, Alessandro Mangogna, Fleur Bossi, GIUSEPPE RICCI, Uday Kishore and Roberta Bulla. Uterine immunity and microbiota: A shifting paradigm. *Frontiers in Immunology* 2019. (IF 4.716)
2. Alessandro Mangogna, Beatrice Belmonte, Chiara Agostinis, Paola Zacchi, Domenico Gerardo Iacopino, Anna Martorana, Vito Rodolico, Deborah Bonazza, Fabrizio Zanconati, Uday Kishore and Roberta Bulla. Prognostic Implications of the Complement Protein C1q in Gliomas. *Frontiers in Immunology*, 1 October 2019 Volume 10, Article 2366 (IF 4.716)
3. Dall'Acqua S, Grabnar I, Verardo R, Klaric E, Marchionni L, Luidy-Imada E, Sut S, Agostinis C, Bulla R, Perissutti B, Voinovich D. Combined extracts of *Echinacea angustifolia* DC. and *Zingiber officinale* Roscoe in softgel capsules: Pharmacokinetics and immunomodulatory effects assessed by gene expression profiling. *Phytomedicine*. 2019 Sep 16;65:153090. doi: 10.1016/j.phymed.2019.153090. (IF 3.610)
4. Zanin R, Pegoraro S, Ros G, Ciani Y, Piazza S, Bossi F, Bulla R, Zennaro C, Tonon F, Lazarevic D, Stupka E, Sgarra R, Manfioletti G. HMGA1 promotes breast cancer angiogenesis supporting the stability, nuclear localization and transcriptional activity of FOXM1. *J Exp Clin Cancer Res*. 2019 Jul 16;38(1):313. doi: 10.1186/s13046-019-1307-8. (IF. 5.646)
5. Mangogna A, Agostinis C, Ricci G, Romano F, Bulla R. Overview of procalcitonin in pregnancy and in pre-eclampsia. *Clin Exp Immunol*. 2019 May 13. doi: 10.1111/cei.13311. (IF. 3.711)
6. Romana Videgar, Chiara Agostinis, Paola Zacchi, Alessandro Mangogna, Fleur Bossi, Fabrizio Zanconati, Marco Confalonieri, Giuseppe Ricci, Roberta Bulla. Evaluation of the Interplay Between the Complement Protein C1q and Hyaluronic Acid in Promoting Cell Adhesion. *Journal of Visualized Experiments* 2019 URL: <https://www.jove.com/video/58688>. DOI: doi:10.3791/58688 **(IF 1.184)**.
7. Alessandro Mangogna, Chiara Agostinis, Deborah Bonazza, Beatrice Belmonte, Paola Zacchi, Gabriella Zito, Andrea Romano, Fabrizio Zanconati, Giuseppe Ricci, Uday Kishore and Roberta Bulla. Is the complement protein C1q a pro- or anti- tumorigenic factor? Bioinformatics analysis involving human carcinomas. *Frontiers in Immunology, Cancer Immunity and Immunotherapy* 2019doi: 10.3389/fimmu.2019.00865 **(IF 5.511)**
8. Chiara Agostinis, Elisa Masat, Fleur Bossi, Giuseppe Ricci, Renzo Menegazzi, Letizia Lombardelli, Gabriella Zito, Alessandro Mangogna, Massimo Degan, Valter Gattei, Marie-Pierre Piccinni, Uday Kishore and Roberta Bulla. Transcriptomics and Immunological Analyses Reveal a Pro-Angiogenic and Anti-Inflammatory Phenotype for Decidual Endothelial Cells. *International Journal of Molecular Sciences* 2019, 20(7), 1604; <https://doi.org/10.3390/ijms20071604> **(IF 3.687)**
9. Alessandro Mangogna, Beatrice Belmonte, Chiara Agostinis, Giuseppe Ricci, Alessandro Gulino, Ines Ferrara, Fabrizio Zanconati, Claudio Tripodo, Federico Romano, Uday Kishore, and Roberta Bulla. Pathological Significance and Prognostic Value of Surfactant Protein D in Cancer. *Frontiers in Immunology* 2018 Aug 6;9:1748. doi: 10.3389/fimmu.2018.01748. eCollection 2018. **(IF 5.511)**
10. Bellazzo A, Di Minin G, Valentino E, Sicari D, Torre D, Marchionni L, Serpi F, Stadler MB, Taverna D, Zuccolotto G, Montagner IM, Rosato A, Tonon F, Zennaro C, Agostinis C, Bulla R, Mano M, Del Sal G, Collavin L. Cell-autonomous and cell non-autonomous downregulation of tumor suppressor DAB2IP by microRNA-149-3p promotes aggressiveness of cancer cells. *Cell Death Differ*. 2018 Mar 22. doi: 10.1038/s41418-018-0088-5. **(IF 8.339)**
11. Agostinis C, Rami D, Zacchi P, Bossi F, Stampalija T, Mangogna A, Amadio L, Videgar R, Vecchi Brumatti L, Ricci G, Celeghini C, Radillo O, Sargent I, Bulla R. Pre-eclampsia affects procalcitonin production in placental tissue. *Am J Reprod Immunol*. 2018 Feb 10. doi: 10.1111/aji.12823 **(IF 3.013)**
12. Chiara Agostinis, Romana Videgar, Beatrice Belmonte, Alessandro Mangogna, Leonardo Amadio, Pietro Geri, Violetta Borelli, Fabrizio Zanconati, Francesco Tedesco, Marco Confalonieri, Claudio Tripodo, Uday Kishore and Roberta Bulla. Complement Protein C1q binds to Hyaluronic Acid in the Malignant Pleural Mesothelioma Microenvironment and Promotes Tumour Growth. *Frontiers Immunology* 2017 *Front Immunol*. 2017 Nov 20;8:1559. doi: 10.3389/fimmu.2017.01559. **(IF 6.429)**

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13. Agostinis C, Tedesco F, Bulla R. Alternative functions of the complement protein C1q at embryo implantation site. *J Reprod Immunol*. 2017 Sep 17. pii: S0165-0378(16)30084-5. doi: 10.1016/j.jri.2016.09.001. PMID: 27687635 **(IF 3.202)**
14. Agostinis C, Stampalija T, Tannetta D, Loganes C, Vecchi Brumatti L, De Seta F, Celeghini C, Radillo O, Sargent I, Tedesco F, Bulla R. Complement component C1q as potential diagnostic but not predictive marker of preeclampsia. *Am J Reprod Immunol*. 2016 Sep 26. doi: 10.1111/aji.12586. PMID: 27666323 **(IF 2.916)**
15. Roberta Bulla, Claudio Tripodo, Damiano Rami, Chiara Agostinis, Carla Guarnotta, Sonia Zorzet, Paolo Durigutto, Guang Sheng Ling, Marina Botto, and Francesco Tedesco. C1q acts in the tumour microenvironment as a cancer-promoting factor independently of complement activation.. *Nature Communications* 2016 Feb 1;7:10346. doi: 10.1038/ncomms10346. **(IF 11.47)**
16. M. Petitbarat, P. Durigutto, P. Macor, R. Bulla, A. Palmioli, A. Bernardi, M.G. De Simoni, N. Ledee, G. Chaouat, and F. Tedesco. Critical Role and Therapeutic Control of the Lectin Pathway of Complement Activation in an Abortion-Prone Mouse Mating. *J Immunol*. 2015;195:5602-5607. **(IF 4.922)**
17. E. Masat, C. Gasparini, C. Agostinis, F. Bossi, O. Radillo, F. De Seta, N. Tamassia, M.A. Cassatella, and R. Bulla. RelB activation in anti-inflammatory decidual endothelial cells: a master plan to avoid pregnancy failure? *Sci Rep*. 2015;5:14847. **(5.578)**
18. Agostinis C, Zorzet S, De Leo R, Zauli G, De Seta F, Bulla R. The combination of N-acetyl cysteine, alpha-lipoic acid, and bromelain shows high anti-inflammatory properties in novel in vivo and in vitro models of endometriosis. *Mediators Inflamm*. 2015;2015:918089. **(IF 2.417)**
19. Rami D, La Bianca M, Agostinis C, Zauli G, Radillo O, Bulla R. The first trimester gravid serum regulates procalcitonin expression in human macrophages skewing their phenotype in vitro. *Mediators Inflamm*. 2014;2014:248963. **(IF 3.88)**
20. G. Di Minin, A. Bellazzo, M. Dal Ferro, G. Chiaruttini, S. Nuzzo, S. Bicciato, S. Piazza, D. Rami, R. Bulla, R. Sommaggio, A. Rosato, G. Del Sal, and L. Collavin. Mutant p53 reprograms TNF signaling in cancer cells through interaction with the tumor suppressor DAB2IP. *Mol Cell*. 2014;56:617-629. **(IF 14.018)**
21. B. Dapas, S. Dall'Acqua, R. Bulla, C. Agostinis, B. Perissutti, S. Invernizzi, G. Grassi, and D. Voinovich. Immunomodulation mediated by a herbal syrup containing a standardized Echinacea root extract: a pilot study in healthy human subjects on cytokine gene expression. *Phytomedicine*. 2014;21:1406-1410. **(IF 2.972)**
22. F. Bossi, C. Tripodo, L. Rizzi, R. Bulla, C. Agostinis, C. Guarnotta, C. Munaut, G. Baldassarre, G. Papa, S. Zorzet, B. Ghebrehiwet, G.S. Ling, M. Botto, and F. Tedesco. C1q as a unique player in angiogenesis with therapeutic implication in wound healing. *Proc Natl Acad Sci U S A*. 2014;111:4209-4214. **(IF 9.737)**
23. C. Agostinis, P. Durigutto, D. Sblattero, M.O. Borghi, C. Grossi, F. Guida, R. Bulla, P. Macor, F. Pregnolato, P.L. Meroni, and F. Tedesco. A non-complement-fixing antibody to beta2 glycoprotein I as a novel therapy for antiphospholipid syndrome. *Blood*. 2014;123:3478-3487. **(IF 9.060)**
24. Pontillo A, Girardelli M, Agostinis C, Masat E, Bulla R, Crovella S. Bacterial LPS Differently Modulates Inflammasome Gene Expression and IL-1beta Secretion in Trophoblast Cells, Decidual Stromal Cells, and Decidual Endothelial Cells. *Reprod Sci*. 2013;20:563-566. **(IF 2.444)**
25. Onime, L, Zanfi, C, Agostinis, C, Bulla, R, Spanghero, M. The use of quantitative real time polymerase chain reaction to quantify some rumen bacterial strains in an in vitro rumen system. *ITALIAN JOURNAL OF ANIMAL SCIENCE*. 2013; 12(3): Article Number: e58 DOI: 10.4081/ijas.2013.e58 **(IF 0.718)**
26. C. Carlino, E. Trotta, H. Stabile, S. Morrone, R. Bulla, A. Soriani, M.L. Iannitto, C. Agostinis, C. Mocchi, M. Minozzi, C. Aragona, G. Perniola, F. Tedesco, S. Sozzani, A. Santoni, and A. Gismondi Chemerin regulates NK cell accumulation and endothelial cell morphogenesis in the decidua during early pregnancy. *J Clin Endocrinol Metab*. 2012;97:3603-3612. **(IF 6.940)**
27. Bulla R, Bossi F, Tedesco F. The complement system at the embryo implantation site: friend or foe? *Front Immunol*. 2012;3:55.
28. C. Agostinis, R. Bulla, V. Tisato, F. De Seta, S. Alberico, P. Secchiero, and G. Zauli. Soluble TRAIL is elevated in recurrent miscarriage and inhibits the in vitro adhesion and migration of HTR8 trophoblastic cells. *Hum Reprod*. 2012;27:2941-2947. **(IF 4.475)**
29. C. Agostinis, F. Bossi, E. Masat, O. Radillo, M. Tonon, F. De Seta, F. Tedesco, and R. Bulla. MBL interferes with endovascular trophoblast invasion in pre-eclampsia. *Clin Dev Immunol*. 2012;2012:484321. **(IF 2.263)**

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