CURRICULUM VITAE

Informazioni personali

Nome e Cognome: IVAN ZANONI
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Educazione

1996-2001: Laurea quinquennale in Biotecnologie Mediche (*110/110 e Lode*), Università degli Studi di Milano, Milano, Italia.
2001-2006: Dottorato in Immunologia, Università degli Studi di Roma "Tor Vergata", Roma, Italia.
Titolo della tesi di Dottorato: "*Study of Dendritic cell role in the regulation of innate and adaptive immunity: interactions with Natural Killer cells and skewing of T cell responses*".

Esperienza lavorativa

2005: *Visiting Scientist* presso il laboratorio del Prof. U. Von Andrian, Harvard Medical School, CBR Institute, Boston, USA.
Campo di studio: Utilizzo della microscopia multi-fotone per lo studio dell'interazione fra cellule *Natural Killer* e cellule dendritiche.
2006-2008: Post-doc presso il laboratorio della Prof.ssa F. Granucci, Università degli Studi di Milano-Bicocca, Milano, Italia.
Campo di studio: Studio dell'induzione di tolleranza periferica in cellule T autoreattive. Studio dell'interazione fra cellule *Natural killer* e cellule dendritiche.
2009: *Visiting scientist* presso il laboratorio del Prof. JC. Kagan, Harvard Medical School, Children's Hospital, Boston, USA.
Campo di studio: Studio del *signaling* a valle del complesso multi-recettoriale CD14-TLR4-MD2.
2013-2014: Anno sabbatico presso il laboratorio del Prof. JC. Kagan, Harvard Medical School, Children's Hospital, Boston, USA.
Campo di studio: Studio del ruolo di ligandi endogeni nel regolare lo sviluppo del processo infiammatorio.
2014-2016: Direzione insieme alla Prof.ssa F. Granucci della Unità di "*Cell signaling in innate immunity*" presso l'Istituto Scientifico Humanitas, Rozzano, Italia.
Campo di studio: Studio del ruolo dell'attivazione dei fattori trascrizionali NFAT durante infezioni mucosali.

Posizioni attuali

2008-2018: Ricercatore a tempo indeterminato presso il Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.
2008-Oggi: Membro del Consiglio di Dottorato in Medicina Traslazionale e Molecolare (DIMET), Università degli Studi di Milano-Bicocca, Milano, Italia.
2014-Oggi: Membro del Consiglio di Dottorato in Immunologia, Harvard University, Boston, USA.
2015-Oggi: *Assistant Professor* presso il Dipartimento di Pediatria, Harvard Medical School, Boston, USA.
2018-Oggi: Professore Associato di Patologia Generale presso il Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.

Premi e borse di studio

2005: Premio Harlan Italy per "*Best research in Experimental Immunology*" (Harlan Italy).
2005: Borsa di studio EMBO per lo sviluppo del progetto intitolato: *"Study of cellular interactions between DCs and NK cells at the draining LN using the 2-photon microscopy*" da svolgere presso il laboratorio del Prof. U. Von Andrian, Harvard Medical School, CBR Institute, Boston, USA.
2009: Premio SIICA-Space per "*Best research on Cytokines*" (Società Italiana di Immunologia Clinica e Allergologia – Space Srl).
2009: Borsa di studio EMBO, per lo sviluppo del progetto intitolato: *"Study of the mechanisms through which CD14 controls the TLR4 TRAM-TRIF pathway*" da svolgere presso il laboratorio del Prof. JC. Kagan, Harvard Medical School, Children's Hospital, Boston, USA.
2009: Bioforum Junior Award come "*Best Italian Junior Biotechnologist*" (Associazione dei Biotecnologi Italiani).
2011: *Best Abstract Awards* presso il Congresso Internazionale SIICA-DGFI.

Società professionali

2005-Oggi: Membro SIICA, Società Italiana di Immunologia Clinica e Allergologia.
2012-Oggi: Membro ESCI, *European Society for Clinical Investigation*.

2014-Oggi: Membro HDDC, *Harvard Digestive Diseases Center*.

Attività editoriale
2011-2014: Topic Editor per Frontiers in Immunology, Research Topic: "*The nature of activatory and tolerogenic dendritic cell-derived signal* 2".
2014-Oggi: Editor per New Journal of Science.
2014-Oggi: Editor per Bio-protocol.
2015-Oggi: Editor per Insights in Cell Science.
2014-Oggi: Associate Editor per Frontiers in Immunology, *Molecular Innate Immunity Speciality*.
2016-Oggi: Topic Editor per Frontiers in Immunology, Research Topic: "*Interferon-λs: New Regulators of Inflammatory Processes*".
***Ad hoc* reviewer** per le seguenti riviste *peer-reviewed*: PNAS, PLOS Pathogen, PLOS One, European Journal of Immunology, Annals of Microbiology, Mediators of Inflammation, Bio-protocol, Theranostics, Frontiers in Immunology, Scientific Reports, International Immunology, Molecular Immunology.

Attività di Reviewer per agenzie di finanziamenti per la Ricerca
2007: Reviewer per *Wellcome Trust* (UK), *Science program in Basic Immunology and Infectious Disease*.
2012-Oggi: Reviewer per il Ministero Italiano dell'Università e della Ricerca (MIUR) per i bandi: PRIN, FIRB, SIR.
2016: Reviewer per *Israel Science Foundation*, *Individual Research Grant*.
2017-Oggi: Reviewer per ERC Advanced Grant.

Attività didattica
2006-Oggi: Laboratorio di tecnologie abilitanti immunologiche (3CFU/corso), Corso di Laurea Triennale in Biotecnologie, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.
2007-2011: Immunologia di base (4CFU), Corso di Laurea di Biologia, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.
2012-2013: Patologia (4CFU), Corso di Laurea Triennale in Scienze Biologiche, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.
2012-Oggi: Immunologia applicata (6CFU), Corso di Laurea Magistrale in Scienze Biologiche e Corso di Laurea Magistrale in Biotecnologie, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italia.
2016-Oggi: *The Warring Genomes: Innate Immunity and Host Defense (IMM 303QC)*, lezioni monografiche, Dottorato in Immunologia di Harvard, Boston, USA.
2016-Oggi: *Immunology Discussion Course (IMM 301)*, lezioni monografiche, Dottorato in Immunologia di Harvard, Boston, USA.

Presentazioni orali a congressi nazionali ed internazionali
2018: "Type III interferons control intestinal inflammation" HDDC Spring Symposium, Boston, USA.
2017: "Endogenous ligands control innate immune cell metabolism" Gut inflammation and metabolism AG&M Symposium, Amsterdam, Olanda.
2017: "Type III interferons control intestinal inflammation" Nutrition, Microbiome Composition/Metabolism and Gut Health Symposium, Amsterdam, Olanda.
2017: "Type III interferons control of intestinal inflammation" SIICA National Meeting, Bari, Italia.
2017: "Type III interferons regulate the inflammatory process" Seminario TIGET, Istituto Scientifico San Raffaele, Milano, Italia.
2017: "Regulation of neutrophil functions by interferon-lambdas during colitis development" P/F Past Award Recipient Reception, Boston, USA.
2016: "Regulation of neutrophil functions by interferons" Annual Immunology Retreat, Washington University, St. Louis, Missouri.
2016: "Innate immune control of the inflammatory process" FASEB conference: Immunoreceptors, Snowmass, Colorado.
2016: "Regulation of inflammation by type III interferons." Department of Immunology and Infectious Diseases Seminar, Harvard T.H. Chan School of Public Health, Boston, USA.
2015: "Regulation of innate immune responses by type III interferons." Harvard Immunology Retreat, New Hampshire, USA.
2015: "Organizing principles of the innate immune system." Immunology Seminar Series, Istituto Scientifico San Raffaele, Milano, Italia.

2014: "INS vs. Danger models: 20 years of fighting, and more", GI Enders Research Lectures, Children's Hospital, Harvard Medical School, Boston, USA.
2013: "Organizing principles of the innate immune system", Harvard Digestive Diseases Center Seminar, Harvard Medical School, Boston, USA.
2013: "CD14 the *factotum* of the city", 2013 ICI Satellite meeting SM7, "Endotoxin, TLR4 signaling and beyond", Milano, Italia.
2012: "CD14 and NFAT mediate LPS-induced skin edema formation in mice", 46th ESCI Meeting, European Phagocyte Workshop, Budapest, Ungheria.
2011: "LPS-induced NFAT activation in dendritic cells regulates PGE2 production and edema formation via mPGES-1", Joint SIICA-DGfI international meeting, Riccione, Italia.
2009: "CD14 regulates the dendritic cell life cycle after LPS exposure through NFAT activation", ECI meeting, SIICA-Space Prize Ceremony, Berlino, Germania.
2007: "DC-mediated NK cell activation", EMBO-ENII Meeting, Capo Caccia, Italia.
2006: "Induction of peripheral T cell tolerance by antigen presenting B cells.", Keystone Symposia on Tolerance, Autoimmunity and Immune Regulation, Beaver Run, USA.
2006: "DC and NK cell interactions: *in vivo* imaging using multi-photon microscopy", School on Confocal and 2-photon micro-spectroscopy, Milano, Italia.
2005: "A contribution of mouse dendritic cell derived IL-2 for NK cell activation", 4th SIICA conference, HARLAN Italy Prize Ceremony, Brescia, Italia.
2005: "TLR-dependent microbial stimuli associated with Th1 responses confer NK cell stimulatory capacity to mouse dendritic cells", SIICA-ESID Joint Symposium, Brescia, Italia.
2005: "TLR-dependent microbial stimuli associated with Th1 responses confer NK cell stimulatory capacity to mouse dendritic cells", ENII Conference, Ile des Embiez, Francia.
2004: "A contribution of Dendritic Cell derived IL-2 for NK cell activation", ENII-EMBO Workshop on Mechanisms of Immunity, Ile des Embiez, Francia.

Finanziamenti per la Ricerca
2011-2016: Fondazione Cariplo – Ricerca Scientifica in ambito Biomedico
Progetto Numero: 2010-0678
Titolo: Ruolo dell'interleuchina-2 e dei probiotici nella modulazione dell'immunosorveglianza verso i tumori: identificazione di nuove strategie terapeutiche.
Ruolo: Coordinatore del Progetto e Responsabile di Unità.
2013-2015: AIRC (Associazione Italiana per la Ricerca sul Cancro) – MFAG (My First AIRC Grant)
Progetto Numero: 13235
Titolo: Proapoptotic potential of src kinase-NFAT signaling pathway in multiple myeloma cells
Ruolo: Responsabile del Progetto.
2014-2017: Fondazione Cariplo – Ricerca scientifica e tecnologica sui materiali avanzati
Progetto Numero: 2013-0624
Titolo: Multifunctional gold nanoparticles as a platform for new carbohydrate-based vaccines (NANOVAC)
Ruolo: Responsabile di Unità (Coordinatore del Progetto: Prof. Luigi Lay).
2015-2018: Fondazione Cariplo – Giovani Ricercatori
Progetto Numero: 2014-0859
Titolo: Study of the role of CD14-dependent signaling pathways during sepsis.
Ruolo: Responsabile del Progetto.
2015-2017: Harvard Digestive Diseases Center - P/F GRANT
Progetto numero: P30 DK034854
Titolo: Modification of neutrophils functions by type III interferon against IBDs.
Ruolo: Responsabile del Progetto.
2016-2021: National Institute of Health (NIH) – R01
Progetto numero: AI121066
Titolo: Innate control of the inflammatory process during fungal infections
Ruolo: Responsabile del Progetto.
2016-2019: Chron's and Colitis Foundation of America (CCFA) – SENIOR RESEARCH AWARD
Progetto numero: 412708
Titolo: Type III IFNs control of IBDs
Ruolo: Responsabile del Progetto.
2016-2017: Harvard Medical School – William F. MILTON FUND
Titolo: Use of type III interferons as therapeutic agents against Intestinal Inflammatory Diseases (IBDs).

Ruolo: Responsabile del Progetto.
2017-2021: National Institute of Health (NIH) – R01
Progetto numero: DK115217
Titolo: Type III interferon Control of Mucosal Immunity
Ruolo: Responsabile del Progetto (Co-responsabile del Progetto: Prof. SB Snapper).

Brevetti e Spin-off
2012: Brevetto intitolato: "*Nanoconstructs with pharmacological activity*". Numero PCT: PCT/IB2013/055943. Inventori del Brevetto: F. Granucci, D. Prosperi, I. Zanoni, F.R.M. Corsi, M. Colombo.
2013: Costituzione dello *Spin off* universitario: "inTHEna srl". Composizione dello *Spin off*: Inventori del Brevetto PCT/IB2013/055943; Università degli Studi di Milano-Bicocca; Università degli Studi di Milano.

Pubblicazioni su riviste internazionali con Peer-review
60 pubblicazioni; numero di citazioni totali: >2070 (Fonte *Scopus*); H-index: 23 (Fonte *Scopus*)

1. **Zanoni I**, Granucci F, Broggi A. "Interferon (IFN)-λ Takes the Helm: Immunomodulatory Roles of Type III IFNs."
   Front Immunol. 2017 Nov 28.
2. Radaelli F, D'Alfonso L, Collini M, Mingozzi F, Marongiu L, Granucci F, **Zanoni I**, Chirico G, Sironi L "μMAPPS: a novel phasor approach to second harmonic analysis for in vitro-in vivo investigation of collagen microstructure."
   Sci Rep. 2017 Dec 12.
3. **Zanoni I***, Tan Y, Di Gioia M, Springstead JR, Kagan JC. "By Capturing Inflammatory Lipids Released from Dying Cells, the Receptor CD14 Induces Inflammasome Dependent Phagocyte Hyperactivation."
   Immunity. 2017 Oct 17. ***last and corresponding author***
4. Santus W, Barresi S, Mingozzi F, Broggi A, Orlandi I, Stamerra G, Vai M, Polissi A, Köhler JR, Liu N, **Zanoni I***, Granucci F. "Skin infections are eliminated by cooperation of the fibrinolytic and innate immune systems."
   Science Immunology. 2017 Sep 22. ***last and corresponding author***
5. Broggi A, Tan Y, Granucci F, **Zanoni I**. "IFN-λ suppresses intestinal inflammation by non-translational regulation of neutrophil functions."
   Nature Immunology. 2017 Aug 28.
6. Prosperi D, Colombo M, Zanoni I, Granucci F. "Drug nanocarriers to treat autoimmunity and chronic inflammatory diseases."
   Semin Immunol. 2017 Aug 28.
7. Rusconi M, Gherardi F, Santus W, Lizio A, Sansone VA, Lunetta C, **Zanoni I***, Granucci F. "Inflammatory role of dendritic cells in Amyotrophic Lateral Sclerosis revealed by an analysis of patients' peripheral blood."
   Scientific Reports. 2017 Aug 10. ***last and corresponding author***
8. Mingozzi F, Spreafico R, Gorletta T, Cigni C, Di Gioia M, Caccia M, Sironi L, Collini M, Soncini M, Rusconi M, von Andrian UH, Chirico G, **Zanoni I***, Granucci F. "Prolonged contact with dendritic cells turns lymph node-resident NK cells into anti-tumor effectors."
   EMBO Mol Med. 2016 Sep 1. ***last and corresponding author***
9. Broggi A, Cigni C**, Zanoni I**, Granucci F. "Preparation of Single-cell Suspensions for Cytofluorimetric Analysis from Different Mouse Skin Regions".
   J Vis Exp. 2016 Apr 20.
10. **Zanoni I**, Tan Y, Di Gioia M, Broggi A, Ruan J, Shi J, Donado CA, Shao F, Wu H, Springstead JR, Kagan JC. "An endogenous caspase-11 ligand elicits interleukin-1 release from living dendritic cells."
    Science. 2016 Apr 21.
11. Rosadini CV, **Zanoni I**, Odendall C, Green ER, Paczosa MK, Philip NH, Brodsky IE, Mecsas J, Kagan JC. "A Single Bacterial Immune Evasion Strategy Dismantles Both MyD88 and TRIF Signaling Pathways Downstream of TLR4."
    Cell Host Microbe. 2015 Dec 9.
12. Tan Y, **Zanoni I**, Cullen TW, Goodman AL, Kagan JC. "Mechanisms of Toll-like Receptor 4 Endocytosis Reveal a Common Immune-Evasion Strategy Used by Pathogenic and Commensal Bacteria."
    Immunity. 2015 Nov 17.
13. Santini B, **Zanoni I***, Marzi R, Cigni C, Bedoni M, Gramatica F, Palugan L, Corsi F, Granucci F, Colombo M. "Cream formulation impact on topical administration of engineered colloidal nanoparticles."
    PLoS One. 2015 May 11. ***first author***

14. Brubaker SW, Bonham KS, **Zanoni I**, Kagan JC. "Immune Pattern Recognition: A Cell Biological Perspective."
    Annu. Rev. Immunol. 2015 Jan 2. 33:10.1–10.34
15. Di Gioia M, **Zanoni I***. "Toll-like Receptor co-receptors as master regulators of the immune response."
    Mol Immunol. 2014 Jun 17. ***corresponding author***
16. Guglielmetti S, **Zanoni I**, Balzaretti S, Miriani M, Taverniti V, De Noni I, Presti I, Stuknyte M, Scarafoni A, Arioli S, Iametti S, Bonomi F, Mora D, Karp M, Granucci F. "The murein lytic enzyme TgaA of Bifidobacterium bifidum MIMBb75 modulates dendritic cell maturation through its CHAP amidase domain."
    Appl Environ Microbiol. 2014 May 9.
17. Petrarca C, Clemente E, Toto V, Iezzi M, Rossi C, Zanotta S, Mistrello G, **Zanoni I**, Granucci F, Arioli S, Mora D, Guglielmetti S, Paganelli R, Di Gioacchino M. "rBet v 1 immunotherapy of sensitized mice with Streptococcus thermophilus as vehicle and adjuvant."
    Hum Vaccin Immunother. 2014 Mar 6.
18. Granucci F, Lutz MB, **Zanoni I**. "The nature of activatory and tolerogenic dendritic cell-derived signal 2."
    Front Immunol. 2014 Feb 6.
19. Cighetti R, Ciaramelli C, Sestito SE, **Zanoni I**, Kubik L, Ardá-Freire A, Calabrese V, Granucci F, Jerala R, Martín-Santamaría S, Jiménez-Barbero J, Peri F. "Modulation of CD14 and TLR4·MD-2 Activities by a Synthetic Lipid A Mimetic."
    Chembiochem. 2014 Jan 24
20. Catucci M, **Zanoni I**, Draghici E, Bosticardo M, Castiello MC, Venturini M, Cesana D, Montini E, Ponzoni M, Granucci F, Villa A. "Wiskott-Aldrich syndrome protein deficiency in natural killer and dendritic cells affects antitumor immunity."
    Eur J Immunol. 2013 Dec 13.
21. Gritti N, Caccia M, Sironi L, Collini M, D'Alfonso L, Granucci F, **Zanoni I**, Chirico G. "Modeling leukocyte-leukocyte non-contact interactions in a lymph node."
    PLoS One. 2013 Oct 28
22. **Zanoni I***, Spreafico R, Bodio C, Di Gioia M, Cigni C, Broggi A, Gorletta T, Caccia M, Chirico G, Sironi L, Collini M, Colombo MP, Garbi N, Granucci F. "IL-15 cis-presentation is required for optimal NK Cell activation in lipopolysaccharide-mediated inflammatory conditions."
    Cell Reports. 2013 Sep 17. ***corresponding author***
23. Bissa M, Pacchioni SM, Zanotto C, Morghen CD, Illiano E, Granucci F, **Zanoni I**, Broggi A, Radaelli A. "Systemically administered DNA and fowlpox recombinants expressing four vaccinia virus genes although immunogenic do not protect mice against the highly pathogenic IHD-J vaccinia strain."
    Virus Res. 2013 Sep 16.
24. **Zanoni I***, Granucci F. "Role of CD14 in host protection against infections and in metabolism regulation."
    Front Cell Infect Microbiol. 2013;3:32. ***corresponding author***
25. Broggi A, **Zanoni I***, Granucci F. "Migratory conventional dendritic cells in the induction of peripheral T-cell tolerance."
    J Leukoc Biol. 2013 Jul 29. ***corresponding author***
26. Granucci F, Lutz MB, **Zanoni I**. "The nature of activatory and tolerogenic dendritic cell-derived signal 2."
    Front Immunol. 2013;4:198.
27. Caprini A, Silva D, **Zanoni I**, Cunha C, Volontè C, Vescovi A, Gelain F. "A novel bioactive peptide: assessing its activity over murine neural stem cells and its potential for neural tissue engineering."
    N Biotechnol. 2013 Jun 25;30(5):552-62.
28. Maggioni D, Fenili F, D'Alfonso L, Donghi D, Panigati M, **Zanoni I**, Marzi R, Manfredi A, Ferruti P, D'Alfonso G, Ranucci E. "Luminescent rhenium and ruthenium complexes of an amphoteric poly(amidoamine) functionalized with 1,10-phenanthroline."
    Inorg Chem. 2012 Dec 3;51(23):12776-88
29. Pontiroli F, Dussurget O, **Zanoni I**, Urbano M, Beretta O, Granucci F, Ricciardi-Castagnoli P, Cossart P, Foti M. "The Timing of IFNβ Production Affects Early Innate Responses to Listeria monocytogenes and Determines the Overall Outcome of Lethal Infection."
    PLoS One. 2012;7(8):e43455.
30. Vitali C, Mingozzi F, Broggi A, Barresi S, Zolezzi F, Bayry J, Raimondi G, **Zanoni I***, Granucci F. "Migratory, and not lymphoid-resident, dendritic cells maintain peripheral self-tolerance and prevent autoimmunity via induction of iTreg cells."
    Blood. 2012 Aug 9;120(6):1237-45. ***corresponding author***
31. **Zanoni I***, Granucci F. "Regulation and dysregulation of innate immunity by NFAT signaling downstream of pattern recognition receptors (PRRs)."

Eur J Immunol. 2012 Aug;42(8):1924-31.
32. **Zanoni I**, Ostuni R, Barresi S, Di Gioia M, Broggi A, Costa B, Marzi R, Granucci F. "CD14 and NFAT mediate lipopolysaccharide-induced skin edema formation in mice."
J Clin Invest. 2012 May 1;122(5):1747-57.
33. **Zanoni I**, Bodio C, Broggi A, Ostuni R, Caccia M, Collini M, Venkatesh A, Spreafico R, "Capuano G, Granucci F. Similarities and differences of innate immune responses elicited by smooth and rough LPS."
Immunol Lett. 2012 Feb 29;142(1-2):41-7.
34. **Zanoni I**, Ostuni R, Marek LR, Barresi S, Barbalat R, Barton GM, Granucci F, Kagan JC. "CD14 controls the LPS-induced endocytosis of Toll-like receptor 4."
Cell. 2011 Nov 11;147(4):868-80.
35. Sartorius R, Bettua C, D'Apice L, Caivano A, Trovato M, Russo D, **Zanoni I**, Granucci F, Mascolo D, Barba P, Del Pozzo G, De Berardinis P. "Vaccination with filamentous bacteriophages targeting DEC-205 induces DC maturation and potent anti-tumor T-cell responses in the absence of adjuvants."
Eur J Immunol. 2011 Sep;41(9):2573-84.
36. Piazza M, Colombo M, **Zanoni I**, Granucci F, Tortora P, Weiss J, Gioannini T, Prosperi D, Peri F. "Uniform lipopolysaccharide (LPS)-loaded magnetic nanoparticles for the investigation of LPS-TLR4 signaling."
Angew Chem Int Ed Engl. 2011 Jan 17;50(3):622-6.
37. Cavalieri D, Rivero D, Beltrame L, Buschow SI, Calura E, Rizzetto L, Gessani S, Gauzzi MC, Reith W, Baur A, Bonaiuti R, Brandizi M, De Filippo C, D'Oro U, Draghici S, Dunand-Sauthier I, Gatti E, Granucci F, Gündel M, Kramer M, Kuka M, Lanyi A, Melief CJ, van Montfoort N, Ostuni R, Pierre P, Popovici R, Rajnavolgyi E, Schierer S, Schuler G, Soumelis V, Splendiani A, Stefanini I, Torcia MG, **Zanoni I**, Zollinger R, Figdor CG, Austyn JM. "DC-ATLAS: a systems biology resource to dissect receptor specific signal transduction in dendritic cells."
Immunome Res. 2010 Nov 19;6:10.
38. Villa CE, Caccia M, Sironi L, D'Alfonso L, Collini M, Rivolta I, Miserocchi G, Gorletta T, **Zanoni I**, Granucci F, Chirico G "Accumulative difference image protocol for particle tracking in fluorescence microscopy tested in mouse lymphonodes."
PLoS One. 2010 Aug 17;5(8):e12216.
39. Guglielmetti S, Taverniti V, Minuzzo M, Arioli S, **Zanoni I**, Stuknyte M, Granucci F, Karp M, Mora D. "A dairy bacterium displays in vitro probiotic properties for the pharyngeal mucosa by antagonizing group A streptococci and modulating the immune response."
Infect Immun. 2010 Nov;78(11):4734-43.
40. Ostuni R, **Zanoni I**, Granucci F. "Deciphering the complexity of Toll-like receptor signalling."
Cell Mol Life Sci. 2010 Dec;67(24):4109-34.
41. **Zanoni I**, Granucci F. "The regulatory role of dendritic cells in the induction and maintenance of T-cell tolerance."
Autoimmunity. 2011 Feb;44(1):23-32.
42. Ferri E, Donghi D, Panigati M, Prencipe G, D'Alfonso L, **Zanoni I**, Baldoli C, Maiorana S, D'Alfonso G, Licandro E "Luminescent conjugates between dinuclear rhenium(I) complexes and peptide nucleic acids (PNA) for cell imaging and DNA targeting."
Chem Commun (Camb). 2010 Sep 14;46(34):6255-7.
43. **Zanoni I**, Granucci F. "Differences in lipopolysaccharide-induced signaling between conventional dendritic cells and macrophages."
Immunobiology. 2010 Sep-Oct;215(9-10):709-12.
44. **Zanoni I**, Granucci F. "Regulation of antigen uptake, migration, and lifespan of dendritic cell by Toll-like receptors."
J Mol Med (Berl). 2010 Sep;88(9):873-80.
45. Granucci F, **Zanoni I**. "The dendritic cell life cycle."
Cell Cycle. 2009 Dec;8(23):3816-21.
46. **Zanoni I**, Ostuni R, Capuano G, Collini M, Caccia M, Ronchi AE, Rocchetti M, Mingozzi F, Foti M, Chirico G, Costa B, Zaza A, Ricciardi-Castagnoli P, Granucci F. "CD14 regulates the dendritic cell life cycle after LPS exposure through NFAT activation."
Nature. 2009 Jul 9;460(7252):264-8.
47. Granucci F, **Zanoni I.** "Role of Toll like receptor-activated dendritic cells in the development of autoimmunity."
Front Biosci. 2008 May 1;13:4817-26.
48. Caccia M, Sironi L, Collini M, Chirico G, **Zanoni I**, Granucci F. "Image filtering for two-photon deep imaging of lymphonodes."

Eur Biophys J. 2008 Jul;37(6):979-87.
49. Granucci F, **Zanoni** I, Ricciardi-Castagnoli P. "Central role of dendritic cells in the regulation and deregulation of immune responses."
Cell Mol Life Sci. 2008 Jun;65(11):1683-97.
50. **Zanoni I**, Granucci F, Foti M, Ricciardi-Castagnoli P "Self-tolerance, dendritic cell (DC)-mediated activation and tissue distribution of natural killer (NK) cells."
Immunol Lett. 2007 May 15;110(1):6-17.
51. Peri F, Granucci F, Costa B, **Zanoni I**, Marinzi C, Nicotra F. "Inhibition of lipid a stimulated activation of human dendritic cells and macrophages by amino and hydroxylamino monosaccharides."
Angew Chem Int Ed Engl. 2007;46(18):3308-12.
52. Granucci F, **Zanoni I**, Ricciardi-Castagnoli P. "Natural killer (NK) cell functions can be strongly boosted by activated dendritic cells (DC)."
Eur J Immunol. 2006 Oct;36(10):2819-20.
53. Vizzardelli C, Pavelka N, Luchini A, **Zanoni I**, Bendickson L, Pelizzola M, Beretta O, Foti M, Granucci F, Nilsen-Hamilton M, Ricciardi-Castagnoli P. "Effects of dexamethazone on LPS-induced activationand migration of mouse dendritic cells revealed by a genome-wide transcriptional analysis."
Eur J Immunol. 2006 Jun;36(6):1504-15.
54. Raimondi G*, **Zanoni I***, Citterio S, Ricciardi-Castagnoli P, Granucci F. "Induction of peripheral T cell tolerance by antigen-presenting B cells. II. Chronic antigen presentation overrules antigen-presenting B cell activation."
J Immunol. 2006 Apr 1;176(7):4021-8. ***first author***
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