

## BRIEF CURRICULUM VITAE

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| <b>NAME</b>                    | Alberto MANTOVANI   |
| <b>SEX</b>                     | Male  |
| <b>DATE AND PLACE OF BIRTH</b> | October 29, 1948, Milan, Italy  |
| <b>CITIZENSHIP</b>             | Italian   |
| <b>MARITAL STATUS</b>          | Married, four children, nine grandchildren  |
| <b>C.F.</b>                    | MNTLRT48R29F205Y  |
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| <b>PRIVATE ADDRESS</b>         | William Harvey Research Institute<br>Queen Mary University,<br>Charterhouse Square, London EC1M 6BQ, UK<br>E-mail <a href="mailto:a.mantovani@qmul.ac.uk">a.mantovani@qmul.ac.uk</a>  |
| <b>EDUCATION</b>               | Largo Brasilia 4,<br>20146 Milan, Italy<br><a href="http://www.humanitas-research.org/alberto-mantovani/">http://www.humanitas-research.org/alberto-mantovani/</a>  |

### EDUCATION

**1973:** M.D., University of Milan, Italy  
**1976:** Specialist in Oncology, University of Pavia, Italy

### SELECTED MAJOR HONORS

#### National or International awarded in Italy

- 1998:** Biotec Award  
**2004:** Guido Venosta Award for Cancer Research by the President of the Republic of Italy  
**2005:** Premio Ippocrate per la Ricerca Biomedica  
**2006:** "Onorificenza al Merito della Repubblica Italiana" (Commendatore, Commander) for scientific contribution by the President of the Republic of Italy  
**2007:** Galileo Galilei Prize for Research in Biomedical Sciences (International Jury)  
**2012:** Premio Nazionale "L'Altra Italia ... Vite da Premio"  
**2014:** Premio Rosa Camuna 2014, Regione Lombardia  
**2015:** Ferrari-Soave International Prize, Accademia delle Scienze, Torino.  
**2016:** NIBIT Award, Siena  
**2016:** Premio Roma allo Sviluppo del Paese.  
**2016:** International Feltrinelli Prize from the Accademia dei Lincei.  
**2017:** Premio Scanno, Fondazione Tanturri, Scanno, Italy.  
**2018:** Medaglia d'Oro di Benemerenza Civica, Milan Municipality (Ambrogino d'Oro).  
**2019:** Sigillo d'Oro, Università degli Studi di Bari.  
**2019:** Premio Chirone, Accademia Nazionale di Medicina  
**2020:** Gold Medal Italian Society of Internal Medicine (SIMI)  
**2021:** Cavaliere di Gran Croce Ordine al Merito della Repubblica Italiana (Knightwood equivalent)  
**2021:** Assobiotec Award  
**2021:** Premio Città di Firenze per le Scienze Molecolari  
**2023:** Premio Evidence, Fondazione GIMBE.  
**2023:** Premio Excellence in Science, Associazione Giovanna Tosi.

**2023:** Premio Ercole Pisello, associazione "Giuseppe Corradi", Comune di Bevagna (PG).

**2024:** Premio "Il Tassello d'Oro" Associazione Il Tassello Mancante, Putignano (BA)

## International

**2000:** Marie T. Bonazinga Award, Society for Leukocyte Biology, Boston, USA

**2006:** European Federation of Immunological Societies – Schering Plough, 1<sup>st</sup> European Immunology Prize, Paris, France

**2009:** William Harvey Award, Outstanding Scientist 2009, London, UK.

**2015:** European Society for Clinical Investigation Albert Struyvenberg Medal

**2015:** The Milstein Award for Excellence in Interferon and Cytokine Research, International Cytokine & Interferon Society.

**2016:** OECI (Organization of European Cancer Institutes) Prize for contribution to Cancer Immunology and Immunotherapy. OECI awards the OECI Prize every three years.

**2016:** Robert Koch Award, Robert Koch Stiftung, Germany

**2017:** Journal of Autoimmunity dedicated Issue to Alberto Mantovani

**2018:** American-Italian Cancer Foundation (AICF, New York) Prize for Excellence in Medicine.

**2019:** American Association for Cancer Research International Pezcoller Award for Extraordinary Achievement in Cancer Research.

**2019:** ITOC6 – Immunotherapy of Cancer Conference Lifetime Achievement Award, Vienna.

**2021:** CIMT – Cancer Immunotherapy Association Lifetime Achievement Award

**2022:** Lifetime Achievement in Inflammation Award by the International Association of Inflammation Societies (IAIS).

**2023:** Garner Immunoglobulin Czech Immunological Society.

**2023:** FADOI Internal Medicine Award.

**2023:** Sir Hans Krebs medal by the Federation of the European Biochemical Societies (to be formally delivered in 2024).

## SELECTED MEMBERSHIPS, BOARDS AND ACADEMIES

**1995-1998:** President, Italian Federation of Immunological Societies

**1997:** Member, Sociedad Cubana de Immunología

**1998-2001:** President, Italian Society of Immunology

**2000 to date:** European Molecular Biology Organization (EMBO) Member

**2002:** Member, The Henry Kunkel Society

**2003:** Co-founder and President (2011-2012) of Gruppo 2003, the association of Italian highly cited scientists to promote Science awareness in Italy

**2005-2010:** Board Member of the Global Alliance for Vaccines and Immunization (GAVI Alliance)

**2008:** Member, Faculty of 1000 Biology

**2009-2010:** President, International Cytokine Society

**2011-2013:** Board Member, International Union of Immunological Societies (IUIS)

**2013-2016:** Vice-President/President Elect, International Union of Immunological Societies (IUIS)

**2016:** Member, Accademia dei Lincei, Rome, Italy

**2016:** Member, Robert Koch Stiftung, Berlin

**2016-2019:** President, International Union of Immunological Societies (IUIS)

**2017:** Member, Academia Europaea

**2017:** Honorary Member, Scandinavian Society of Immunology

**2021:** Honorary Member, Accademia Medica di Roma

**2022:** Brazilian Academy of Sciences, Corresponding Member

**2023:** Fellow, International Science Council

**2024:** Member, US National Academy of Sciences

## ACADEMIC APPOINTMENTS

- 1973-1975:** Research assistant Department of Tumor Immunobiology and Chemotherapy, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.
- 1975-1976:** Visiting fellow at the Department of Tumor Immunology, Chester Beatty Research Institute, Belmont, Sutton, Surrey, England.
- 1978 and 1979:** Visiting fellow at the Laboratory of Immunodiagnosis, NIH, Bethesda, MD., USA, supported by a NATO Grant.
- 1979-1981:** Senior investigator, Department of Tumor Immunology and Chemotherapy, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.
- 1981-1996:** Chief, Laboratory of Immunology, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.
- 1987:** Eleanor Roosevelt UICC Scholar, Laboratory of Molecular Immunoregulation, NIH, Frederick, MD., USA.
- 1994 to 2001:** Full Professor of General Pathology, School of Medicine, University of Brescia, Italy.
- 1996 to 2005:** Head, Department of Immunology and Cell Biology, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.
- 2001 to 2014:** Full Professor of General Pathology, School of Medicine, State University of Milan, Italy
- Sept. 2005 to date:** Scientific Director, Istituto Clinico Humanitas, and President, Fondazione Humanitas per la Ricerca.
- 2014 to 2019:** Full Professor of General Pathology, School of Medicine, Humanitas University
- 2017 to date:** Professor, Chair of Inflammation and Therapeutic Innovation, William Harvey Research Institute, Queen Mary University, London, UK
- 2019 to date:** Emeritus Professor, Humanitas University.

## Editorial Activity

Editor-in-Chief (2011-2022), Seminars in Immunology (I.F. 10)  
Senior Editor (2017 to date), Cancer Immunology Research (I.F. 12)

## Main contributions

Tumor-associated macrophages (TAM). Demonstration in the late '70s of the protumour function of tumor-associated macrophages (TAM, an acronym now generally used and coined by him in the '70s) linking inflammation and cancer (reviewed in Balkwill and Mantovani, Lancet, 2001). TAM as an M2-like population

(Bottazzi et al, Science 1983; Mantovani et al., Nature 2008; Balkwill et al., Cancer Cell 2005). Promotion of tumor progression by IL-1 (Cancer Res. 1990; 1993). First linking of a genetic event (RET/PTC rearrangement) causing cancer in humans to the construction of an inflammatory microenvironment (Borrello et al., PNAS 2005). Proof of principle that targeting tumor promoting macrophages has therapeutic value in humans (Germano et al, Cancer Cell 2013). Demonstration that PTX3 is an extrinsic oncosuppressor regulating Complement and macrophage-driven tumor promoting inflammation (Bonavita et al Cell 2015; Magrini et al Nature Cancer 2019). Discovery of a novel pathway of anti-tumor immunity involving neutrophils, macrophages and unconventional, double negative T cells (Ponzetta et al, Cell 2019). Alberto Mantovani is recognized among his peers as a forerunner in the '70s and a "founding father" of the renaissance of the inflammation-cancer connection. For IL-1R8, see below, IL-1.

Chemokines. Description and role in TAM recruitment of a unique monocyte attractant, Monocyte Chemotactic Protein-1 (CCL2), as tumor-derived chemotactic factor (Bottazzi et al, Science 1983). Characterization of chemokines and role in pathophysiology, including dendritic cell and polarized T cell migration. Induction of chemokine production by IL-6 in endothelial cells via trans-signaling, a key component of chronic inflammation and cancer (Romano et al, Immunity 1997). Characterization of D6/ACKR2 as a decoy receptor for inflammatory CC chemokines (Mantovani et al, Nature Rev. Immunol 2006). Role of chemokines in carcinogenesis (e.g. Bonavita et al Cell 2015).

IL-1/Toll-like receptors (TLR). Endothelial cell activation by IL-1 and cytokines (Rossi et al., Science 1985; Bussolino et al, Nature 1989; Romano et al, Immunity 1997). Identification of the type II receptor as a decoy receptor, a novel concept in biology (Colotta et al, Science 1993); the discovery of a decoy receptor represented a paradigm shift after the original definition of the concept of "receptor" by Langley in the 1930'; decoy receptors are now recognized as a general, evolutionary conserved strategy to tune cytokines, chemokines and growth factors. Cloning of an intracellular isoform of the IL-1 receptor antagonist (Muzio et al., J. Exp. Med. 1995). First demonstration of MyD88 as the adaptor of mammalian Toll-Like Receptors (TLR) and identification of downstream transducers (Muzio et al., J. Exp. Med. 1998). Cloning and characterization of TIR8/SIGIRR (IL-1R8), a negative regulator of IL-1 receptor and TLR signalling (Garlanda et al, Immunity 2013; 2019). Role in carcinogenesis. In NK cells IL-1R8 serves as a checkpoint: its blocking unleashes resistance to carcinogenesis and metastasis at selected anatomical sites (Molgara et al, Nature 2017).

Humoral innate immunity: cloning (cDNA and genomic, mouse and human), structural and functional characterization of the first long pentraxin PTX3 as an IL-1 inducible gene (Garlanda et al, Nature 2002; Jeannin et al, Immunity 2005; Jaillon et al. J. Exp Med 2007; Deban et al, Nature Immunol. 2010; Jaillon et al. Immunity 2014; Bonavita et al. Cell 2015); structural immunobiology; role as a paradigm for humoral innate immunity; role as an extrinsic oncosuppressor in murine and human tumors regulating Complement and macrophage driven tumor promoting inflammation (Bonavita et al. Cell 2015); diagnostic and therapeutic translation (Cunha et al New England J. Med. 2014; ongoing). Thus, a regulator of macrophage-driven tumor promoting inflammation is a bona fide cancer gene, silenced in selected human tumors such as colorectal cancer, a finding now independently confirmed in large patients' cohorts. PTX3 emerged as a strong prognostic biomarker in COVID-19 (Nature Immunology 2021). Identification of MBL as an antibody involved in resistance to COVID-19 (Nature Immunology 2022).

## Contribution to Public Awareness of Science

Alberto Mantovani has been actively involved in the fostering of science and scientific policies in Italy at various levels, with a focus on Immunology, Vaccines, Oncology and Public Health, taking public stands on several issues including vaccines and quackery whenever appropriate. He regularly contributes to the most authoritative Italian daily newspapers (eg Corriere della Sera; La Repubblica; La Stampa; Il Sole 24 Ore) and magazines (Espresso and Panorama). Since March 2020 he has been at the forefront in raising public

awareness on Covid-19. He wrote five books on Immunology and Science targeted to the lay public (I Guardiani della Vita, Baldini e Castoldi, 2011; Immunità e Vaccini, Mondadori, 2016 (awarded the Premio Letterario Merck per la Saggistica) and 2021; Non avere Paura di Sognare, La Nave di Teseo, 2016; Bersaglio Mobile, Mondadori, 2018; Il Fuoco Interiore. Immunità e malattie, Mondadori 2020 and second edition in 2021, which was awarded the literary prize Angelo Zanibelli; L'Orchestra Segreta, La Nave di Teseo, 2021). He contributed to scientific (eg SuperQuark; TGR Leonardo; Radiotre Scienza; Sapiens) and general radio and television programs (eg Geo; Che Tempo che Fa; general national radio and TV programs). To promote science awareness and policy, together with astrophysicist Tommaso Maccacaro he founded the website <http://www.scienzainrete.it>. He represented the Accademia dei Lincei in the European Academies Science Advisory Council (EASAC) working group on homeopathy and in the formulation of the final EASAC statement on it. Together with Guido Forni, Lorenzo Moretta and Giovanni Rezza he wrote the position paper "Vaccines. A position paper from the Accademia Nazionale dei Lincei" (2018). A revised version is now published as a book with a section on Covid-19 (I vaccini fanno bene. Perchè dobbiamo credere nella scienza per difenderci da virus e batteri; La Nave di Teseo, 2020) and a new updated book has now been published (I Vaccini: la cura del futuro, dalle infezioni alla sfida al cancro, La Nave di Teseo, 2023).

## Impact

The broad impact of the contribution of Alberto Mantovani is testified by citations. As of February 2024 he has over 171,000 citations and an H-index of 188 according to Scopus, over 259,000 and 221 according to Google Scholar. An analysis of impact indicates that he has been one of the most influential immunologists (Ioannidis et al PLOS Biology, 2019). According to Research.com, he is one of the 10 most cited immunologists worldwide and the first in Europe. In December 2017 Journal of Autoimmunity dedicated an Issue of the Journal to Alberto Mantovani. In December 2022 he was nominated "Legend in Allergy and Immunology" by the journal Allergy.

## Selected publications

### Originals

Stravalaci M, Pagani I, Paraboschi EM, Pedotti M, Doni A, Scavello F, Mapelli SN, Sironi M, Varani L, Matkovic M, Cavalli A, Cesana D, Gallina P, Pedemonte N, Capurro V, Clementi N, Mancini N, Invernizzi P, Rappuoli R, Duga S, Bottazzi B, Uggioni M, Asselta R, Vicenzi E, Mantovani A, Garlanda C. Recognition and inhibition of SARS-CoV-2 by humoral innate immunity pattern recognition molecules. *Nature Immunol.* 23, 275–286 (2022).

Brunetta E, Folci M, Bottazzi B, De Santis M, Gritti G, Protti A, Mapelli SN, Bonovas S, Piovani D, Leone R, My I, Zanon V, Spata G, Bacci M, Supino D, Carnevale S, Sironi M, Davoudian S, Peano C, Landi F, Di Marco F, Raimodi F, Gianatti A, Angelini C, Rambaldi A, Garlanda C, Ciccarelli M, Cecconi M, Mantovani A. Macrophage expression and prognostic significance of the long pentraxin PTX3 in COVID-19. *Nat Immunol* 22(1): 19-24, 2021.

Donadon M, Torzilli G, Cortese N, Soldani C, Di Tommaso L, Franceschini B, Carriero R, Barbagallo M, Rigamonti A, Anselmo A, Colombo FS, Maggi G, Lleo A, Cibella J, Peano C, Kunderfranco P, Roncalli M, Mantovani A\*, Marchesi F\* (\*corresponding authors). Macrophage morphology as a correlate of functional diversity with prognostic significance in colorectal liver metastasis. *J. Exp Med.* 2020 Nov 2; 217(11): e20191847. doi: 10.1084/jem.20191847.

Ponzetta A, Carriero R, Carnevale S, Barbagallo ML, Molgora M, Perucchini C, Magrini E, Gianni F, Kunderfranco P, Polentarutti N, Pasqualini F, Di Marco S, Supino D, Peano C, Cananzi F, Colombo P, Pilotti S, Alomar SY, Bonavita E, Galdiero MR, Garlanda C, Mantovani A\*, Jaillon S\* (\*corresponding authors). Neutrophils driving unconventional T cells mediate resistance against murine sarcomas and selected human tumors. *Cell*, 178(2):346-360, 2019.

Mattiola I, Tomay F, De Pizzol M, Silva-Gomes R, Savino B, Gulic T, Doni A, Lonardi S, Boutet MA, Nerviani A, Carriero R, Molgora M, Stravalaci M, Morone D, Shalova IN, Lee Y, Biswas SK, Mantovani G, Sironi M, Pitzalis C, Vermi W, Bottazzi B, Mantovani A\*, Locati M\* (\*corresponding authors). The interplay of the macrophage tetraspan MS4A4A with Dectin-1 and its role in NK cell-mediated resistance to metastasis. *Nature Immunol*, 20(8):1012-1022, 2019.

Molgora M, Bonavita E, Ponzetta A, Riva F, Barbagallo M, Jaillon S, Popovic B, Bernardini G, Magrini E, Gianni F, Zelenay S, Jonjic S, Santoni A, Garlanda C, Mantovani A. IL-1R8 is a checkpoint in NK cells regulating anti-tumor and anti-viral activity. *Nature*, 551:110-114, 2017.

Doni A, Musso T, Morone D, Bastone A, Zambelli V, Sironi M, Castagnoli C, Cambieri I, Stravalaci M, Pasqualini F, Laface I, Valentino S, Tartari S, Ponzetta A, Maina V, Barbieri SS, Tremoli E, Catapano AL, Norata GD, Bottazzi B, Garlanda C, Mantovani A. An acidic microenvironment sets the humoral pattern recognition molecule PTX3 in a tissue repair mode. *J Exp Med*. 212: 905-925, 2015.

Bonavita E, Gentile S, Rubino M, Maina V, Papait R, Kunderfranco P, Greco C, Feruglio F, Molgora M, Laface I, Tartari S, Doni A, Pasqualini F, Barbati E, Basso G, Galdiero MR, Nebuloni M, Roncalli M, Colombo PG, Laghi L, Lambris JD, Jaillon S, Garlanda C, Mantovani A. PTX3 is an extrinsic oncosuppressor regulating complement-dependent inflammation in cancer. *Cell* 160: 700-714, 2015.

Jaillon S, Moalli F, Ragnarsdottir B, Bonavita E, Riva F, Barbati E, Nebuloni M, Krajinovic LC, Markotic A, Valentino S, Doni A, Tartari S, Graziani G, Montanelli A, Delneste Y, Svanborg C, Garlanda C, Mantovani A. The humoral pattern recognition molecule PTX3 is a key component of innate immunity against urinary tract infection. *Immunity* 40: 621-632, 2014.

Cunha C, Aversa F, Lacerda JF, Busca A, Kurzai O, Grube M, Löfller J, Maertens JA, Bell AS, Inforzato A, Barbati E, Almeida B, Santos e Sousa P, Barbui A, Potenza L, Caira M, Ph.D., Rodrigues F, Salvatori G, Pagano L, Luppi M, Mantovani A, Velardi A, Romani L, Carvalho A. Genetic deficiency of PTX3 and aspergillosis in stem cell transplantation. *New Engl J Med*, 370:421-432, 2014.

Germano G, Frapolli R, Belgiovine C, Anselmo A, Pesce S, Liguori M, Erba E, Ubaldi S, Zucchetti M, Pasqualini F, Nebuloni M, van Rooijen N, Mortarini R, Beltrame L, Marchini S, Fuso Nerini I, Sanfilippo R, Casali PG, Pilotti S, Galmarini CM, Anichini A, Mantovani A, D'Incà M, Allavena P. Role of macrophage targeting in the antitumor activity of trabectedin. *Cancer Cell* 23: 249-262, 2013.

Deban L, Castro Russo R, Sironi M, Moalli F, Scanziani M, Zambelli V, Cuccovillo I, Bastone A, Gobbi M, Valentino S, Doni A, Garlanda C, Danese S, Salvatori G, Sassano M, Evangelista V, Rossi B, Zenaro E, Constantin G, Laudanna C, Bottazzi B, Mantovani A  
Regulation of leukocyte recruitment by the long pentraxin PTX3. *Nature Immunol*, 11: 328-334, 2010.

Di Liberto D, Locati M, Caccamo N, Vecchi A, Meraviglia S, Salerno A, Sireci G, Nebuloni M, Cardona P-J, Dieli F, Mantovani A. Role of the chemokine decoy receptor D6 in balancing inflammation, immune activation and antimicrobial resistance in *Mycobacterium tuberculosis* infection. *J. Exp. Med.* 205: 2075-2084, 2008.

Lech M, Kulkarni OP, Pfeiffer S, Savarese E, Krug A, Garlanda C, Mantovani A, Anders H-J Tir8/SigIRR prevents murine lupus by suppressing the immunostimulatory effects of lupus autoantigens. *J. Exp. Med.* 205: 1879-1888, 2008.

Jaillon S, Peri G, Delneste Y, Frèmaux I, Doni A, Moalli F, Garlanda C, Romani L, Gascan H, Bellocchio S, Bozza S, Cassatella MA, Jeannin P, Mantovani A. The humoral pattern recognition receptor PTX3 is stored in neutrophil granules and localized in extracellular traps. *J. Exp. Med.*, 204, 793-804, 2007.

Martinez de la Torre Y, Buracchi C, Borroni EM, Dupor J, Bonecchi R, Nebuloni M, Pasqualini F, Doni A, Lauri E et al. Protection against inflammation- and autoantibody- caused fetal loss by the chemokine decoy receptor D6. *PNAS* 104:2319-2324, 2007

Biswas SK, Gangi L, Paul S, Schioppa T, Saccani A, Sironi M, Bottazzi B, Doni A, Vincenzo B, Pasqualini F, Vago L, Nebuloni M, Mantovani A\*, Sica A. (\* corresponding author). A distinct and unique transcriptional

program expressed by tumor-associated macrophages (defective NF-kappaB and enhanced IRF-3/STAT1 activation). *Blood* 107:2112-2122, 2006.

Borrello MG, Alberti L, Fischer A, Degl'Innocenti D, Ferrario C, Gariboldi M, Marchesi F, Allavena P, Greco A, Collini P, Pilotti S, Cassinelli G, Bressan P, Fugazzola L, Mantovani A\*, Pierotti M\* (\*corresponding authors). Induction of a proinflammatory programme in normal human thyrocytes by the RET/PTC1 oncogene. *PNAS*, 102: 14825-14830, 2005.

Jeannin P., Bottazzi B., Sironi M., Doni A., Rusnati M., Presta M., Maina V., Magistrelli G., Haeuw J.F., Hoeffel G., Thieblemont N., Corvaia N., Garlanda C., Delneste Y., Mantovani A. Complexity and complementarity of outer membrane protein-A recognition by cellular and humoral innate immunity receptors *Immunity* 22: 551-560, 2005.

Bertini R, Allegretti M, Bizzarri C, Moriconi A, Locati M, Zampella G, Cervellera M N, Di Cioccio V, Cesta M C, Galliera E, Martinez F O, Di Bitondo R, Troiani G, Sabbatini V, Anacardio R, Cutrin J C, Cavalieri B, Mainiero F, Strippoli R, Villa P, Di Girolamo M, Martin F, Gentile M, Santoni A, Corda D, Ghezzi P, Poli Giuseppe, Mantovani A, Colotta F. A new class of non-competitive allosteric inhibitors of the inflammatory chemokine receptors CXCR1 and CXCR2: Prevention of reperfusion injury. *Proc Natl Acad Sci USA* 101: 11791-11796, 2004

Garlanda C, Riva F, Polentarutti N, Buracchi C, Sironi M, De Bortoli M., Muzio M, Bergottini R, Scanziani E, Vecchi A, Hirsch E, Mantovani A Intestinal inflammation in mice deficient in TIR8, an inhibitory member of the IL-1 receptor family. *Proc Natl Acad Sci USA* 101: 3522-3526, 2004

Schioppa T., Uranchimeg B., Saccani A., Biswas S., Doni A., Rapisarda A., Bernasconi S., Saccani S., Nebuloni M., Vago L., Mantovani A., Melillo G., Sica A. Regulation of the chemokine receptor CXCR4 by hypoxia. *J Exp. Med.* 198: 1391-1402, 2003

Wittamer V, Franssen J D, Vulcano M, Mirjolet J F, Le Poul E, Migeotte I, Brezillon S, Tyldesley R, Blanpain C, Detheux M, Mantovani A, Sozzani S, Vassart G, Parmentier M, Communi D. Specific recruitment of antigen-presenting cells by Chemerin, a novel processed ligand from human inflammatory fluids. *J Exp Med* 198: 977-985, 2003

Garlanda C, Hirsch E, Bozza S., Salustri A., De Acetis M., Nota R., Maccagno A., Riva F., Bottazzi B., Peri G., Doni A., Vago L., Botto M., De Santis R., Carminati P., Siracusa G., Altruda A., Vecchi A., Romani L., Mantovani A. Non-redundant role of the long pentraxin PTX3 in anti-fungal innate immune response. *Nature* 420: 182-186, 2002.

Fraticelli P, Sironi M, Bianchi G, D'Ambrosio D, Albanesi C, Stoppacciaro A, Chieppa M, Allavena P, Ruco L, Girolomoni G, Sinigaglia F, Vecchi A, Mantovani A Fractalkine (CX3CL1) as an amplification circuit of polarized Th1 responses. *J Clin Invest.* 107: 1173-1181, 2001

D'Amico G, Frascaloli G, Bianchi G, Doni A, Transidico P, Vecchi A, Sozzani S, Allavena P, Mantovani A. Uncoupling of inflammatory chemokine receptors by interleukin 10: Generation of functional decoys. *Nature Immunol.* 1: 387-391, 2000.

Hirsch E, Katanaev V L, Garlanda C, Azzolino O, Silengo L, Sozzani S, Mantovani A, Altruda F, Wymann M P. Central role for G protein-coupled phosphoinositide 3-kinase $\gamma$  in inflammation. *Science* 287: 1049-1053, 2000.

Muzio M, Natoli G, Saccani S, Levrero M, Mantovani A.. The human Toll signaling pathway: Divergence of nuclear factor Kb and JNK/SAPK activation upstream of tumor necrosis factor receptor-associated factor 6 (TRAF6). *J. Exp. Med.* 187: 2097-2101, 1998.

Sozzani S, Allavena P, D'Amico G, Luini W, Bianchi G, Kataura M, Imai T, Yoshie O, Bonecchi R, Mantovani A.. Differential regulation of chemokine receptors during dendritic cell maturation: A model for their trafficking properties. *J. Immunol.* 161: 1083-1086, 1998.

Sozzani, S., S. Ghezzi, G. Iannolo, W. Luini, A. Borsatti, N. Polentarutti, A. Sica, M. Locati, C. Mackay, T. N. C. Wells, P. Biswas, E. Vicenzi, G. Poli, and A. Mantovani.. Interleukin-10 increases CCR5 expression and HIV infection in human monocytes. *J. Exp. Med.* 187:439-444, 1998

Bonecchi R, Bianchi G, Panina Bordignon P, D'Ambrosio D, Lang R, Borsatti A, Sozzani S, Allavena P, Gray P A, Mantovani A, Sinigaglia F..Differential expression of chemokine receptors and chemotactic responsiveness of type 1 T helper cells (Th1s) and Th2s. *J. Exp. Med.* 187: 129-134, 1998.

Romano M, Sironi M, Toniatti C, Polentarutti N, Fruscella P, Ghezzi P, Faggioni R, Luini W, Van Hinsberg V, Sozzani S, Bussolino F, Poli V, Ciliberto G, Mantovani A. Role of IL-6 and its soluble receptor in induction of chemokines and leukocyte recruitment. *Immunity* 6: 315-325, 1997.

Godiska R, Chantry D, Raport C J, Sozzani S, Allavena P, Leviten D, Mantovani A, Gray P W..Human macrophage-derived chemokine (MDC), a novel chemoattractant for monocytes,monocyte-derived dendritic cells, and natural killer cells. *J. Exp. Med.* 185: 1595-1604, 1997.

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