



PERSONAL INFORMATION



Fabrizio De Benedetti

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Sex M | Date of birth 04/06/1960 | Nationality Italian

WORK EXPERIENCE

- 1986-1991 **Resident**
School of Pediatrics, University of Pavia, Italy
- 1988-1989 **Guest Researcher**
Biological Response Modifier Program, National Cancer Institute, National Institute of Health, Maryland, USA
- 1992-2002 **Assistant Professor (equivalent) of Pediatrics**
Ospedale San Matteo, University Hospital, Pavia Italy
- 1997-2002 **Assistant Professor (equivalent) of Pediatrics and Head, Laboratory of Pediatric Rheumatology**
Ospedale San Matteo, University Hospital, Pavia Italy
- 2002-2010 **Assistant Professor of Pediatrics and Head Laboratory of Rheumatology and Inflammation**
Ospedale Pediatrico Bambino Gesù, Rome, Italy
- 2010-present **Head Division of Pediatric Rheumatology and Head Laboratory of Rheumatology and Inflammation**
Ospedale Pediatrico Bambino Gesù, Rome, Italy

EDUCATION AND TRAINING

- 1979-1985 **M.D. with honour**
School of Medicine, University of Pavia, Italy
- 1986-1989 **Board Certification equivalent in Pediatrics**
University of Pavia, Italy
- 1990-1993 **Ph.D. in Pediatric Sciences**
University of Pavia, Italy

ADDITIONAL INFORMATION

Clinical Activity

Since his residency, has worked as a pediatric rheumatologist involved in the diagnosis and treatment of children with rheumatic diseases. At present, head of the Division of Rheumatology of the Children Hospital in Rome (IRCCS Ospedale Pediatrico Bambino Gesù)

Teaching Activity

Dr. De Benedetti was part of the educational program for Residents in Pediatrics (from 1999 to 2002) and Clinical Immunology (from 1994 to 2002) of the University of Pavia and is part of the education program for Residents in Rheumatology (from 2003 to present) of the Catholic University in Rome and Residents in Pediatrics (from 2008 to present) of the Università TorVergata in Rome.

Scientific Activity

Following his period at the National Cancer Institute, during which he was involved in projects concerning the role of cytokines in the differentiation of tumor cells, dr. De Benedetti's research has been focused on the pathogenesis and particularly on the role of inflammatory cytokines in pediatric chronic inflammatory diseases. The results of basic research have been translated into clinical application in patients. He led or is presently leading a total of 8 pivotal international clinical trials with novel biological targeted therapies in rheumatic diseases of childhood. The results of the concluded studies have led to the worldwide approval of these treatments and have been published in top ranking journal including the *New Engl J Med*. He is the author of several chapters in national and international books and of more than 100 peer-reviewed articles published on indexed journals (h index 32).

PUBLICATIONS ON PEER REVIEW JOURNAL (best 10 in the last 5 years)

1. Furst DE, Keystone EC, Braun J, Breedveld FC, Burmester GR, De Benedetti F, Dörner T, Emery P, Fleischmann R, Gibofsky A, Kalden JR, Kavanaugh A, Kirkham B, Mease P, Sieper J, Singer NG, Smolen JS, Van Riel PL, Weisman MH, Winthrop K. Updated consensus statement on biological agents for the treatment of rheumatic diseases, 2011. *Ann Rheum Dis*. 2011;71 Suppl 2:i2-i45.
2. Peruzzi B, Cappariello A, Del Fattore A, Rucci N, De Benedetti F, Teti A. c-Src and IL-6 inhibit osteoblast differentiation and integrate IGFBP5 signalling. *Nat Commun*. 2012 Jan 17;3:630.
3. R. Strippoli, F. Carvello, L. De Pasquale, R. Scianaro, S. Petrini, L.Bracci-Laudiero, F. De Benedetti. Chronic exposure to Interleukin-6 modifies macrophage response to Toll-like receptor ligands: implication for the pathogenesis of Macrophage Activation Syndrome. *Arthritis Rheum* 2012; 64: 1680-8
4. L. De Pasquale, A. D'Amico, M. Verardo, S. Petrini, E. Bertini, F. De Benedetti. Increased muscle expression of Interleukin-17 in Duchenne Muscular Dystrophy. *Neurology* 2012; 78: 1309-14.
5. F. De Benedetti, Hl. Brunner, N Ruperto, A Kenwright, S Wright, I Calvo, R Cuttica, ARavelli, R Schneider, P Woo, C Wouters, R Xavier, L Zemel, E Baildam, R Burgos-Vargas, P Dolezalova, S M. Garay, Rosa Merino, R Joos, A Grom, Nico Wulffraat, Z Zuber, F Zulian, D Lovell, A Martini. for the Paediatric Rheumatology International Trials Organisation (PRINTO) and the Pediatric Rheumatology Collaborative Study Group (PRCSG): Randomized Trial of Tocilizumab in Systemic Juvenile Idiopathic Arthritis. *New Engl J Med* 2012 2012; 367:2385-2395.
6. Strippoli R, Caiello I, De Benedetti F. Reaching the threshold: a multilayer pathogenesis of macrophage activation syndrome. *J Rheumatol*. 2013 Jun;40(6):761-7.
7. Prencipe C, Caiello I, Cherqui S, Whisenan T, Petrini S, Emma F, De Benedetti F. Inflammasome Activation by Cystine Crystals: Implications for the Pathogenesis of Cystinosis. *J Am Soc Nephrol* 2014 2014;25:1163-9.
8. Caiello I, Minnone G, Holzinger D, Vogl T, Prencipe G, Manzo A, De Benedetti F, Strippoli R. IL-6 amplifies TLR mediated cytokine and chemokine production: implications for the pathogenesis of rheumatic inflammatory diseases. *PLoS One*. 2014;9(10):e107886.
9. Brunner Hl, Ruperto N, Zuber Z, Keane C, Harari O, Kenwright A, Lu P, Cuttica R, Keltsev V, Xavier RM, Calvo I, Nikishina I, Rubio-Pérez N, Alexeeva E, Chasnyk V, Horneff G, Opoka-Winiarska V, Quartier P, Silva CA, Silverman E, Spindler A, Baildam E, Gámir ML, Martin A, Rietschel C, Siri D, Smolewska E, Lovell D, Martini A, De Benedetti F; for the Paediatric Rheumatology International Trials Organisation (PRINTO) and the Pediatric Rheumatology Collaborative Study Group (PRCSG). Efficacy and safety of tocilizumab in patients with polyarticular-course juvenile idiopathic arthritis: results from a phase 3, randomised, double-blind withdrawal trial. *Ann Rheum Dis*. 2014.
10. De Benedetti F, Brunner H, Ruperto N, Schneider R, Xavier R, Allen R, Brown DE, Chaitow J, Pardeo M, Espada G, Gerloni V, Myones BL, Frane JW, Wang J, Lipman TH, Bharucha KN, Martini A, Lovell D; Paediatric Rheumatology International Trials Organisation and the Pediatric Rheumatology Collaborative Study Group. Catch-Up Growth During Tocilizumab Therapy for Systemic Juvenile Idiopathic Arthritis: Results From a Phase III Trial. *Arthritis Rheumatol*. 2015;67:840-8.