



CURRICULUM VITAE - Mauro Perretti

ADDRESS:

Centre for Biochemical Pharmacology
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PLACE AND DATE OF BIRTH: Parma, Italy, 11th May 1960

MARITAL STATUS: Married to Marzia Malcangio, with two children

EDUCATION

- 1975 - 1979 High School Diploma (*Scientific Lyceum*) with a mark 50\60.
1979 - 1985 *Laurea* (110 *cum laude*) in Pharmaceutical Chemistry, Faculty of Pharmacy, University of Florence, Italy. Thesis: Effect of enzymatic induction on polyamine biosynthesis and on the diamine oxidase activity in Japanese quails' liver.
- 1986 - 1989 Certificate of *Specialization* in Pharmacology (70 *cum laude*), Department of Pharmacology, Faculty of Pharmacy, University of Florence, Italy. Thesis: Studies of the interrelation between interleukin-1 and glucocorticoids.
- 1992-1996 Degree of *Doctor of Philosophy* (Faculty of Science), University of London, UK. Thesis: Lipocortin 1 and the control of neutrophil migration.

Fluent Spoken and Written English

WORK EXPERIENCE

- 1982 - 1985 Student in the laboratory headed by Prof. F Buffoni at the Department of Pharmacology, University of Florence, Italy.
1986 - July 1987

Voluntary assistant in the above laboratory.
 July 1987 -April 1991
 Scientist in the laboratory of Pharmacology headed by Prof. L Parente at the Sclavo Research Centre, Siena, Italy.
 May 1991 - April 1993
 Research Scientist in the laboratory of Biochemical Pharmacology headed by Prof. RJ Flower at The William Harvey Research Institute, St. Bartholomew's Hospital Medical College, London, UK.
 May 1993 - August 1998
 Senior Scientist (Honorary Lecturer Status) in the above Department.
 April 1997 – March 2002
 Post-doctoral Research Fellow of the Arthritis Research Campaign UK.
 September 1998 – August 2000
 Senior Lecturer in the above Department.
 September 2000 – August 2001
 Reader in Immunopharmacology in the above Department.
 Since September 2000 –
 Joint Head of the Centre for Biochemical Pharmacology, The William Harvey Research Institute
 Since September 2001 –
 Professor of Immunopharmacology in the above Department.
 April 2002 – July 2007
 Senior Research Fellow of the Arthritis Research Campaign UK.
 Since September 2006 –
 Deputy Director, The William Harvey Research Institute

AWARDS OR MARKS OF ESTEEM

1. Recipient of a Post-doctoral Fellowship the Arthritis Research Campaign April 1997-March 2002.
2. September 1998 - Cattlin Prize, awarded by the Joint Research Board of the Special Trustees of St. Bartholomew's Hospital as an "Excellent Non-Clinical Scientist".
3. December 2000 – Quintiles Prize, awarded by the British Pharmacological Society for “Outstanding research in immunopharmacology”.
4. Personal Chair, Queen Mary University of London, September 2001.
5. Recipient of a Senior Fellowship the Arthritis Research Campaign April 2002-March 2007.
6. Elected Fellow of the British Pharmacological Society (August 2004).
7. Member of the Wellcome Trust Physiology Panel (October 2005-July 2008).
8. Representative for the School of Medicine and Dentistry at Queen Mary College Research Board (2009-present).
9. Member of the site visit committee of the Centre for Pathophysiology of Toulouse Pourpan (University of Toulouse) Dec 3-4 2009.
10. Member of the Committee Panel for the HRD and SFI Translational Research Awards (Ireland), October 5th 2010.
11. Elected Fellow of the Academia Europea (September 2010).

MEMBERSHIPS

1. Società Italiana di Farmacologia (1991-1995).

2. British Pharmacological Society (from 1993).
3. European Inflammation Society (from 1994).
4. British Inflammatory Research Association (from 1996).
5. The American Microcirculatory Society (1999-2010).
6. The American Society for Investigative Pathology (from 2005).
7. The Canadian Society of Gastroenterology (2006-2008).
8. The International Society of Nutrigenics/Nutrigenomics (from 2010)
9. The British Microcirculation Society (from 2010)

EDITORIAL & REFEREE ACTIVITIES

- January 1998 to December 2001, Member of the Editorial Board - British Journal of Pharmacology.
- January 1999 to December 2003, Member of the Editorial Board - Microcirculation.
- From January 2000, Member of the Advisory Board - Inflammation Research
- From January 2001, Member of the Editorial Board - Journal of Pharmacological and Toxicological Methods
- March 2003-March 2007, Member of the Advisory Board - Journal of Pharmacological Sciences
- Jan 2004-June 2006, Member of the Editorial Board – Annexins
- From October 2004, Member of the Editorial Board – Revista do Hospital das Clinicas.
- From January 2006, **Principal Editor**, The Scientific World
- August 2006, Editor (together with Marco Cassatella): issue of Current Opinion of Pharmacology, section Immunopharmacology.
- From July 2007, Invited to join the membership of the Immunopharmacology & Hematologic Pharmacology Section of the Pharmacology & Drug Discovery Faculty. [Faculty 1000].
- From September 2007, Member of the Editorial Board of Inflammation.
- From September 2010, Member of the Editorial Board of Current Opinion in Pharmacology
- From October 2010, Member of the Editorial Board of Frontiers in the Pharmacology of Inflammation

Several papers refereed each year for the following Scientific Journals: Biochemical Pharmacology, European Journal of Pharmacology, Life Science, Gut, Microcirculation, J Leukoc Biol., Journal of Immunology, FASEB Journal, Nat Review Cell Biology, British Journal of Pharmacology, American Journal of Pathology, Nat Review Drug Disc

Several project and program grant applications refereed for the Arthritis Research Campaign, the British Heart Foundation, the Medical Research Council UK, The Wellcome Trust, and also The National Health and Medical Research Council (Australia), Canadian Institutes of Health Research (CIHR), the Italian Ministry of University, The Singapore National Medical Research Council, United States-Israel Binational Science Foundation.

RESEARCH INTERESTS

MP laboratory (>15 scientists, students and visiting fellows) focuses on the investigation of the endogenous mediators that actively promote resolution of inflammation for the regain of tissue homeostasis. Natural (resolving) Inflammation results by a concerted regulation of

several mediators, so that there exists an appropriate temporal and spatial balance between endogenous pro-inflammatory and anti-inflammatory mediators and pathways.

This multinational group studies specific elements of this endogenous response, with a dual approach: 1) on one hand, the patho-physiological relevance of these mediators in models of acute (air-pouch, peritonitis) and chronic inflammation (e.g. arthritis, endotoxaemia) is determined using a combination of molecular, cellular and integrate biology approaches (e.g. transgenic tools); 2) on the other hand, an equally important goal is identification of the target(s) mediating the effects of endogenous anti-inflammation as novel leads for innovative drug discovery: these new therapeutics will potentially produce much less side effects, since they will be mimicking the way our body naturally controls the inflammatory reaction.

Within the complexity of the inflammatory reaction, a strong area of interest is the regulation of leukocyte trafficking in the microcirculation; use of imaging techniques (e.g. intravital microscopy) is abundantly done (brain, mesentery, cremaster) as well as the use of genetically modified animals. Animal models are complemented by other analysis under flow (the flow chamber assay allows to study effects on leukocyte/endothelium interaction under flow using human cells). In the last 3-4 years, most if not all our lines of research, have been investigated for their translational potential, so that more and more work is devoted to determine if there are alterations (at the cellular or molecular levels) for any of the elements that form the pathways listed below. Diseases under investigation span from large vessel vasculitides to rheumatoid arthritis, from osteoarthritis to cystic fibrosis. Under the research niche of endogenous anti-inflammation, the following mediators/systems are investigated:

The Annexin A1 system, that is annexin 1 (the ligand), its receptor (a specific 7-TM GPCR termed FPRL-1 or ALX), its catabolism. Current studies involve assessment of the operative modes of this system on cells of innate as and adaptive immune response. In addition, drug development based on peptido-mimetics of the Annexin A1 N-terminal region is also a major interest.

The melanocortin peptide system, focusing on the anti-inflammatory actions of ACTH and alpha-MSH, with a strong interest on i) the receptor responsible for these inhibitory effects (hence, potential selective agonist development programmes) and ii) the assessment whether agonists (such as ACTH and alpha-MSH) could be produced in the periphery by immune cells, leading to the discovery of an anti-inflammatory loop that might be generated locally, within the inflamed tissue, during the resolution phase of inflammation.

Galectins. The anti-inflammatory effects of Galectin-1 have been studied predominantly in the context of endothelial cell biology. Use of transgenic approaches and silencing RNA (for human cells) is allowing definition of the role of this endothelial-derived protein on lymphocyte and neutrophil interaction, as assessed by intravital microscopy and the flow chamber assays. Novel lines are emerging, linking the pharmacological and pathophysiological functions of Galectin-1 and other members of this family of lectins, branching out of acute inflammation into more chronic experimental systems.

New Projects. Opportunities are often explored to augment the efforts of this lab in elucidating novel and pivotal endogenous anti-inflammatory mediators and targets. Examples are current research on Resolvins (in collaboration with Prof CN Serhan, at Harvard) and Chemerin (in collaboration with Dr D Greaves, Oxford University).

Glucocorticoids. A long-dated expertise in glucocorticoid biology (and anti-inflammatory effects) stemmed from the link between these hormones (and their synthetic derivatives) and

annexin A1. Current interests are to reduce side effects of glucocorticoids therapeutic application: this is experimented in an innovative way, a major interest being analysis of the positive (reduction of arthritis) and negative (blockade of bone catabolism) interaction between Glucocorticoids and Calcitonin. Studies on non-genomic effects of glucocorticoids in platelets are also ongoing, with attention to RA.

Commercial Partnerships

Two patents associated to these projects have been licenced to Unigene Corp (Fairfield, NJ), a testimony to the constant attention for therapeutic development. As part of this deal, Perretti's lab will work together with this US Biotech to attain a therapeutic benefit from the potential synergism between calcitonin and glucocorticoids for the treatment of rheumatoid arthritis and other forms of arthritides. In addition, the Unigene Corp. proprietary know-how on peptide production and peptide oral delivery will be applied to the development of small fragments of the anti-inflammatory protein Annexin A1 for the treatment of post-ischaemic pathological conditions. Other collaborative projects are on-going with Action Pharma A/S (Copenhagen, DK) and UCB (Slough, UK).

TEACHING

I regularly lecture to medical students of the Medical School who have chosen the Pharmacology module.

I am supervisor for PhD students, see previous section, medical students during their project for the Pharmacology BSc, and I have also had sandwich students (such as Kings College London and University of Manchester).

Invited as Visiting Professor by the University of Campinas and the University of San Paolo (San Paolo State, Brazil) in the period 4-18 October 1997 to give a course entitled "Experimental inflammation: from molecular aspects to in vivo pharmacology" to students enrolled for a Master in Pharmacology and Toxicology.

Invited as Visiting Professor by the University of Palermo (Sicily, Italy) in the period 16-22 May 1999 to give a course entitled "Applied Pharmacology" to students enrolled for a Degree in Pharmacy or in Pharmaceutical Chemistry, Faculty of Pharmacy.

Since year 1999/2000 I have been acting as Tutor for a 3-week PBL.

I am a member of the organizing committee, and have contributed to its programme of the new Master in Research course "Vascular Inflammation" (committee chaired by Professor R Corder)

GRANTS (bold if PI)

1. **Perretti M**, Hannon R & Flower RJ: "The effect of glucocorticoid hormones on the expression and function of chemotactic cytokines (chemokines)". The Bart's NHS Trust # XMLW; £ 48,428 (3-year PhD studentship with bench fees) November 1995-October 1998.
2. **Perretti M**. "Endogenous lipocortin 1 downregulates human leucocyte emigration". Arthritis & Rheumatism Council #P0535; £ 156,304 (3-year post-doctoral fellowship)

April 1997-March 2000.

3. **Perretti M** & Flower RJ: "ACTH and related peptides as novel inhibitors of neutrophil recruitment". Arthritis & Rheumatism Council #P0537; £ 61,824 (2-year project grant with salary for a RA grade 1B) April 1997 - March 1999.
4. Ahluwalia A & Perretti M: "Investigation of B1 receptor expression, function and modulation in the cardiovascular system". British Heart Foundation #PG/97013; £ 107,788 (3-year project grant with salary for a post-doc) October 1997-September 2000.
5. **Perretti M**: "Role of CC chemokines in a murine model of chronic granuloma". BBSRC CASE studentship funded by Astra Charnwood; £ 51,000 (3-year PhD studentship with bench fees) January 1998-December 2000.
6. **Perretti M** & Flower RJ: "Investigation on the therapeutic role of lipocortin 1 in neutrophil-mediated cardiovascular pathologies". British Heart Foundation #PG/97131; £ 131,311 (3-year project grant with salary for a RA grade 1A) April 1998-March 2001.
7. **Perretti M** & Flower RJ: "Pharmacology of Nitro-steroids". NicOx S.a. (Nice, France). £ 213,000 (5-year project grant with salary for a research assistant) February 1999-January 2004.
8. **Perretti M**: "Research on melanocortin-3 receptor in inflammation". Trega Biosciences (San Diego, CA). US\$ 100,000 (1-year project grant). August 1999 - September 2000.
9. **Perretti M** & Flower RJ: "The ACTH/MC3 pathway and the control of experimental inflammation". Arthritis Research Campaign #P0562. £125,770 (3-year project grant with salary for a post-doc). September 1999 - August 2002.
10. **Perretti M** & McIntyre I: "The cellular pharmacology of osteoprotegerin and osteoprotegerin ligand in bone cells and in inflammatory bone diseases". The Bart's NHS Trust #XMJQ. £ 74,893 (2-year project grant with salary for a post-doc). November 1999 - October 2001.
11. **Perretti M**: "Investigation into the mechanism of annexin 1 inhibition of leukocyte trafficking". Arthritis Research Campaign #P0567. £ 123,494 (2-year extension to the post-doctoral fellowship) April 2000-March 2002.
12. **Perretti M** & Day AJ: "The anti-migratory action displayed by TSG-6: investigation into mechanisms involved". British Heart Foundation #PG/2000022. £117,416 (2 year project grant with salary for a post-doc). January 2001 – December 2002.
13. **Perretti M** & Flower RJ: "Is FPR mediating the protective action of annexin 1 in experimental cardiovascular pathologies?" British Heart Foundation FS/2000076. £ 68,382. PhD studentship. November 2000 – October 2003.
14. **Perretti M** & Chernajovsky Y: "Galectins as modulators of leukocyte migration and functions in the inflammatory response". The Wellcome Trust 062367. £106,634 (2 year project grant with salary for a post-doc). April 2001-March 2003.
15. **Perretti M**: Investigation into the role of annexin 1 in the microcirculation of annexin 1 knockout mice". Medical Research Council G78/7211, £45,000, PhD studentship. October 2001-September 2004.
16. **Perretti M** & Getting SJ: "Melanocortin receptor type 3 activation and the control of macrophage signalling". Arthritis Research Campaign 15733, £57,655, PhD studentship. October 2001-September 2004.
17. **Perretti M** & Flower RJ: "Role of the annexin 1 pathway in leukocyte activation in genetically modified mice". Nuffield Foundation RHE/00057/G, £66,490 Oliver Bird PhD studentship. October 2001-September 2004.
18. **Perretti M**: "Cloning the annexin 1 receptor". Chiesi Pharmaceuticals Ltd. £132,000. October 2001-September 2002.

19. **Perretti M** & McIntyre I: “Calcitonin has previously undescribed major effects on the cytokine systems controlling osteoclasts and inflammation: implications for arthritis”. The Bart’s NHS Trust # XMNH. £ 76,102 (2-year project grant with salary for a post-doc). March 2002 - February 2004.
20. Getting SJ & Perretti M: “Activation of melanocortin type 3 receptor as a novel strategy to control experimental chronic inflammation”. Arthritis Research Campaign G0571, £102,609, 2-year project grant. 1st September 2002-30th August 2004.
21. **Perretti M**: “A study on the annexin 1 receptor(s) and the mechanism(s) that control neutrophil migration in inflammation”. Arthritis Research Campaign 15755 [P0583], £444,943. 5-year Senior Research Fellowship (with salary for a technician). 1st July 2002-30th June 2007.
22. Flower RJ & Perretti M: “The biology of annexin 1 and its receptors: integrative studies in host defence and neuroendocrine systems”. Wellcome Trust 069234/Z/02/Z £496,440. 3-year programme grant in association with JC Buckingham, Imperial College London and JF Morris Oxford University. (with salary for two post-doc + one technical assistant). 15th January 2003- 14th January 2006.
23. Ahluwalia A & Perretti M: “Mechanisms regulating expression and function of the kinin B1 receptor in cardiovascular inflammation”. Wellcome Trust 068873/Z/02/Z £299,837. 3-year project grant (with salary for post-doc + technician). October 2003-September 2006.
24. **Perretti M** & D Cooper: “Leukocyte recruitment under flow: effect of annexin 1 gene deficiency”. Studentship from the St. Bartholomew’s & the Royal London Charitable Foundation, RAB 03/PhD/07 PhD studentship. £63,720. October 2003-September 2006.
25. **Perretti M**: “Expression and role of the annexin 1/receptor system in ischemia-reperfusion induced leukocyte endothelium interaction in the brain microcirculation”. British Heart Foundation FS/03/100/16326. £78,973. Junior Fellowship (Dr FNE Gavins). 1st February 2004-31st January 2006.
26. **Perretti M**: “Research on the glucocorticoid receptor and the development of new glucocorticoids”. William Harvey Research Foundation. £75,000. 1st February 2004-31st January 2005.
27. Nourshargh S & Perretti M: “Role of neutrophil elastase as a regulator of cytokine/chemokine generation in models of ischaemia/reperfusion injury?” British Heart Foundation; £145,000. June 2004-May 2007.
28. Chernajovsky Y & Perretti M: “Molecular engineering of inflammation-specific targeted small therapeutic peptides”. Wellcome Trust University Translational Award no. 073271. £284,984.
29. D Cooper & Perretti M (Sponsor): “Galectin-1 and the control of cell-cell interactions in inflammation”. Non Clinical Training Fellowship from the St. Bartholomew’s & the Royal London Charitable Foundation, RAB 03/F/2 in favour of Dr Cooper. £89,604. 1st September 2004-31st August 2006.
30. **Perretti M**, Cooper D & Motterlini R: “Investigation into the protective role of carbon monoxide (CO) in vascular inflammation using new CO-releasing molecules (CO-RMs)”. British Heart Foundation PG/04/060/17166 £96,513. 2-year project grant (with salary for a post-doc). Feb 2005-Jan 2007.
31. **Perretti M**: “An integrated approach to study the anti-inflammatory mechanisms and the role of MC3-R”. St. Bartholomew’s & the Royal London Charitable Foundation, RAB 04/PJ/4. £90,000. 2-year project grant (with salary for a post-doc). September 2004-August 2006.
32. D’Acquisto F & Perretti M (Sponsor): “A novel facet in annexin-1 biology: modulation of the adaptive immune response”. MRC G0400327 New Investigator Award (3 year

- fellowship in favour of Dr D'Acquisto). £250,000 Dec 2004-Nov 2007.
33. **Perretti M** & Cooper D: "Endogenous galectin-1". St. Bartholomew's & the Royal London Charitable Foundation, RAB03/MRes. £85,800, 4-year PhD studentship. October 2004-September 2008.
 34. **Perretti M** & D'Acquisto F: "Modulation of T cell activation and differentiation by annexin 1". Arthritis Research Campaign 16525; £66,474, PhD studentship. October 2005-September 2008.
 35. Ahluwalia A & Perretti M: "Investigation of the mechanism in kinin-B1 receptor-induced leukocyte recruitment" British Heart Foundation PG/05/024/18513 £82,955. 2-year project grant (with salary for a post-doc). April 1st 2005-March 31st 2007.
 36. **Perretti M** & D'Acquisto F: "Research on annexin 1 and the adaptive immune response". William Harvey Research Foundation. £120,000. 1st April 2005-31st March 2007.
 37. **Perretti M** & Getting SJ: "Melanocortin receptor deficiency and the control of leukocyte/endothelium interactions". British Heart Foundation FS/05/078/19406. £80,800. PhD studentship. October 2005 – September 2008.
 38. **Perretti M** & Getting SJ: "MC3R gene deficiency and cell activation in inflammation". Arthritis Research Campaign 17299; £81,215, 18-month project grant April 2006-October 2007.
 39. **Perretti M**. SIRF fund. Equipment Grant "A new set up for intravital microscopy". £70,000. October 2006.
 40. Martin GA, **Perretti M (sponsor)** & Wallace JL (sponsor): "Modulation of mucosal integrity, inflammation and repair by annexin 1". Canadian Institutes of Health Research. Can \$ 165,000. Fellowship in favour of Dr Martin (University of Calgary, Canada). July 2006- June 2009.
 41. **Perretti M** & D'Acquisto F: "The impact of annexin 1 cleavage on neutrophil behaviour during vascular inflammation". British Heart Foundation PG/06/153/22042; £225,692 3-year project grant 1st March 2007-28th February 2010.
 42. D'Acquisto F & **Perretti M**: "Study on the immuno-modulatory role of endogenous annexin 1 in dendritic cells". St. Bartholomew's & the Royal London Charitable Foundation, RAB 04/PJ/4. £99,594. 3-year PhD Studentship October 2007-September 2010.
 43. **Perretti M**, Gray M, Getting SJ & Pitzalis C: Role of melanocortins in modulating inflammation in experimental animals (MC3R KO mice) and human arthritis (RA). Arthritis Research Campaign 18049; £203,719. 3-year project grant 1st October 2007-30th September 2010.
 44. **Perretti M**, Pitzalis C & Naseem K: "Biochemical and functional analyses of the glucocorticoid receptor in blood platelets". Wellcome Trust 081833/Z/06/Z £134,091 2-year project grant January 2008-Dec 2009.
 45. Cooper D & **Perretti M (sponsor)**, "Endothelial galectins and the control of inflammatory arthritis". Arthritis Research Campaign 18103; £424,871, 5-year research career development fellowship July 2007-June 2012.
 46. **Perretti M**, McIntyre I & Flower RJ; 3-year sponsorship from Unigene, Fairland, NJ. "Development of Calcitonin as a co-treatment with glucocorticoids" and "Development of novel annexin 1 peptides". US\$1.2 million. September 2007-August 2010.
 47. **Perretti M** & Cooper D: 4-year BBSRC/UCB CASE PhD studentship "Galectins in experimental arthritis". £137,000. BB/E528944/1. October 2007-September 2011.
 48. **Perretti M** & Cooper D: 6-month Value in People Award "Investigation into the action of novel omega 3 derived anti-inflammatory lipids on the process of leukocyte/endothelium interaction". £18,000. November 2007-April 2008.
 49. **Perretti M** "Galectins and the control of inflammation". William Harvey Research

- Foundation. £68,000. 1st April 2007-31st March 2008.
50. **Perretti M**, Gray M & Pitzalis C: Wellcome Trust WT083551MA: 3-year project grant “Investigation on the endogenous annexin 1 system in inflammatory arthritis” £278,800 (Feb 2008-Jan 2011).
 51. Goulding NJ, Chernajovsky Y, **Perretti M**, Pitzalis C, Flower RJ: Equipment Grant “Flow cytometric discrimination and selective purification of human and animal primary cells and cell lines for rheumatology research” Arthritis Research Campaign 18125 £184,422 (March 2009).
 52. Timmis A, Caulfield MJ, Mathur A, Ahluwalia A, Nourshargh S, **Perretti M**, Avril N. NIHR Biomedical Research Unit in Cardiovascular Imaging at Barts and The London. October 2008-Dec 2011. £4.7M.
 53. **Perretti M**: “Exploring the resolution of inflammation for innovative target discovery” UCB Collaborative Project Grant £175,000. (September 2008-August 2011).
 54. D’Acquisto F (PI), Perretti M: “Developing new tools to mimic annexin 1 actions on T cells” Heptagon Technology Validation Award. £75,000 (October 2008-Sept 2009).
 55. **Perretti M**: “Novel melanocortin peptides: mechanism of action”. Action Pharma £245,000 (Dec 2008-November 2010).
 56. **Perretti M** & Flower RJ: “The pathophysiology of ALX in inflammation” Wellcome Trust 5 year Programme Grant 086867 £1,167,240 (April 2009-March 2014).
 57. **Clark AJ**,
 58. **Perretti M**, Dasgupta B, Mason JC: “The Annexin A1 pathway in neutrophils of patients with large vessel vasculitis”. British Heart Foundation [PG/09/060] £201,920. Nov 2009-Oct 2012.
 59. Perretti M (Sponsor). Sir Henry Wellcome Fellowship to Dr Jenna Cash. Defining the role of chemerin peptides and ChemR23 in the endogenous anti-inflammatory network Wellcome Trust 088967/Z/09/Z £250,000. Nov 2009-Oct 2013.
 60. Pitzalis C, Chernajovsky Y and Perretti M: “Is melanocortin receptor type 3 a new target for treatment of rheumatoid arthritis?” Arthritis Research Campaign Clinical PhD Studentship £224,941 (Nov 2009-Oct 2012).
 61. Naseem K and Perretti M: “Regulation of platelet function by glucocorticoids”. Heart Research UK PhD Studentship. £69,180 (to be activated).
 62. **Perretti M**, D’Acquisto F and Cooper D: “The Explorative Analyses on Endogenous Anti-Inflammatory Pathways in Chondrocytes and other Stromal Cells”. William Harvey Research Foundation £49,500 (Jan 2010-Dec 2011).
 63. **Perretti M**, D’Acquisto F and Cooper D: “Explorative investigations on the effects of recently discovered cytokines in inflammation”. William Harvey Research Foundation £49,868 (Feb 2010-Jan 2011).
 64. Brayden D and Perretti M (sponsors). SFI Short term fellowship to Dr Sinéad Ryan: “Analysis of intra-articular delivery of salmon calcitonin-hyaluronic polymeric particulates in the K/BxN murine model of arthritis”. Science Foundation Ireland. €10,592 (May 2010-Dec 2010).
 65. Cooper D (PI) and Perretti M. Galectin-3: a positive regulator of leukocyte recruitment in the inflamed microcirculation. British Heart Foundation, Non Clinical PhD Studentship. £102K (October 2010-September 2013).

PATENTS

- 1 Perretti M, Becherucci C, Mugridge KG, Solito E, Presentini R & Parente L: "Synthetic peptide derived from human lipocortin 5 and use thereof". Italian patent

- No. 22251, 3rd Nov 1989. European patent No. 91100713, 21 Jan 1991.
- 2 Becherucci C, Perretti M, Silvestri S & Parente L: "New pharmaceutical composition with anti-inflammatory activity". Italian patent No. 22791, 21st Dec 1989. European patent No. 90124579, 18 Dec 1990.
 - 3 Perretti M & Flower RJ: "Anti-inflammatory compounds". UK patent No. 9816235.7, 24th July 1998. PCT/GB99/02391, 22nd July 1999. US File 6,858,579B2 (22 Feb 2005).
 - 4 Flower RJ, Getting SJ & Perretti M: "Compounds for use in the treatment of inflammation". UK patent No. 9816234.0, 24th July 1998. PCT/GB99/02392, 22nd July 1999.
 - 5 Perretti M, Mancini L, Macintyre I: "Use of calcitonin as a combined treatment therapy for the management of inflammatory disease conditions". UK patent No. P38593GB/NCB, 1st April 2005.
 - 6 D'Acquisto, Perretti M, Wheatley C: "Use of vitamin B12 and analogues or homologues thereof in medicine". P44279GB/NCB, 7th December 2008.
 - 7 D'Acquisto, Perretti M: "Antibodies to Annexin-1 pathway; generation and validation of a novel tool for the therapy of autoimmune diseases". UK Patent Application 0822011.3, 8th January 2009.
 - 8 D'Acquisto, Perretti M: "Antibody to Annexin-1". UK Patent Appln P49822GB, 9th June 2010.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

- 1 Ignesti G, **Perretti M** & Buffoni F: Induction and quail liver diamine oxidase (histaminase). Part I: interference of spermidine synthase on the diamine oxidase activity assay using putrescine as substrate. AGENTS ACTIONS 25: 37-42, 1988.
- 2 Ignesti G, Buffoni F, **Perretti M** & Cintelli A: Induction and quail liver diamine oxidase (histaminase). Part II: different responses to the inducers. AGENTS ACTIONS 25: 43-47, 1988.
- 3 Becherucci C, Donati D, **Perretti M** & Parente L: The release of interleukin-1 activity in two models of immunological inflammation. AGENTS ACTIONS 28: 243-247, 1989.
- 4 **Perretti M**, Becherucci C, Scapigliati G & Parente L: The effect of adrenalectomy on interleukin-1 release *in vitro* and *in vivo*. BR J PHARMACOL 98: 1137-1142, 1989.
- 5 **Perretti M**, Nuti S & Parente L: Investigation of rat mast cell degranulation using flow cytometry. J PHARMACOL METH 23: 187-194, 1990.
- 6 Mugridge KG, **Perretti M**, Becherucci C & Parente L: Persistent effect of interleukin-1 on smooth muscle preparations from adrenalectomized rats: implication for increased phospholipase A₂ activity via stimulation of 5-lipoxygenase. J PHARMACOL EXP THER 256: 29-37, 1991.
- 7 Dal Piaz V, Ciciani G, Turco G, Giovannoni MP, Miceli M, Pirisino R & **Perretti M**: 5-acyl-6-aryl-4-nitro-3(2H) pyridazinones and related 4-amino compounds: synthesis and pharmacological evaluation. J PHARM SCI 80: 341-348, 1991.
- 8 **Perretti M**, Becherucci C, Mugridge KG, Solito E, Silvestri S & Parente L: A novel anti-inflammatory peptide from human lipocortin 5. BR J PHARMACOL 103:1327-1332, 1991.
- 9 Mugridge KG, **Perretti M**, Ghiara P & Parente L: Interleukin-1 effects on smooth muscle are reduced by α -melanocyte stimulating hormone. EUR J PHARMACOL 197: 151-155, 1991.
- 10 **Perretti M**, Mugridge KG, Becherucci C & Parente L: Evidence that interleukin-1 and lipoxygenase metabolites mediate the lethal effect of Complete Freund's Adjuvant in

- adrenalectomized rats. Lymphokine and Cytokine Res 10: 239-243, 1991.
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- Annexin 1 peptide inhibits ischemia reperfusion (I/R)-induced leukocyte adhesion and emigration: receptors involved. *FASEB J* 16: A598, 2002.
111. **Perretti M**, La M, Solito E: Annexin 1 interacts with L-selectin following neutrophil adhesion to endothelial cells. *FASEB J* 16: A1049, 2002.
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 113. Yona S, Hannon R, Gao JL, Murphy PM, Buckingham JC, Flower RJ, **Perretti M**: Alterations in the annexin 1 pathway are associated with modified neutrophil activation. *BR J PHARMACOL* 138: 13P, 2003.
 114. Solito E, **Perretti M**: Exogenous annexin 1 promotes human neutrophil apoptosis. *BR J PHARMACOL* 138: 14P, 2003.
 115. Gavins FNE, Gao JL, Murphy PM, Flower RJ, **Perretti M**: An annexin 1 peptide reduces myocardial ischaemia reperfusion in the mouse. *BR J PHARMACOL* 138: 18P, 2003.
 116. Goulding NJ, Rickford AKB, Sherratt KM, Paul-Clark MJ, Flower RJ, **Perretti M**: Characterization of a novel glucocorticoid receptor in human platelets. *BR J PHARMACOL* 138: 121P, 2003.
 117. Mancini L, Paul-Clark MJ, Hannon R, MacIntyre I, **Perretti M**: Glucocorticoid modulation on RANKL and osteoprotegerin in osteoblast cell lines. *BR J PHARMACOL* 138: 122P, 2003.
 118. Paul-Clark MJ, Getting SJ, Roviezzo F, Del Soldato P, Flower RJ, **Perretti M**: Effects of a novel NO-releasing glucocorticoid (NCX-1015) in a rat model of gout. *BR J PHARMACOL* 138: 76P, 2003.
 119. Getting SJ, Di Filippo C, Lam CW, Rossi F, Flower RJ, D'Amico M, **Perretti M**: Protective role of melanocortin type 3 receptor in myocardial ischaemia-reperfusion injury in mice. *BR J PHARMACOL* 138: 144P, 2003.
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 121. La M, Chilton K, Hirabayashi J, Kasai K, Chernajovsky Y, **Perretti M**: Evidence for specific galectin-1 binding proteins on human neutrophils. *FASEB J* 17: A796, 2003.
 122. Foster P, Mathur A, McLean P, **Perretti M**, Moncada S, Ahluwalia A, Hobbs A: Anti-leukocyte properties of a novel non NO-based soluble guanylate cyclase activator, BAY 41-2272. *FASEB J* 17: A1052, 2003.
 123. Vo P, Syed I, Mc Lean P, Bascands J-L, **Perretti M**, Ahluwalia A: Regulation of kinin B1 receptors in endothelial cells by laminar shear stress. *FASEB J* 17: A1056, 2003.
 124. Paul-Clark MJ, Getting SJ, Flower RJ, Del Soldato P, & **Perretti M**: Anti-arthritic properties of an NO-donating glucocorticoid, NCX-1015. *FASEB J* 17: A1061, 2003.
 125. Getting SJ, Lam CW, Christian HC, Flower RJ, Schiöth H, **Perretti M**: Melanocortin agonists possess anti-inflammatory effect in mice with a non-functional MC1-R (recessive yellow *e/e* mice). *FASEB J* 17: A1069, 2003.
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 127. Gavins FNE, Flower RJ, **Perretti M**: A Boc-sensitive receptor, distinct from FPR, mediates the anti-inflammatory action of an annexin 1 peptide in the mouse heart. *FASEB J* 17: A1074, 2003.
 128. Young RE, Thompson RD, Larbi KY, La M, Roberst C, Shapiro SD, **Perretti M**, Nourshargh S: Neutrophil elastase (NE) plays a non-redundant role in zymosan-induced leukocyte migration. *FASEB J* 17: A1188, 2003.
 129. Chatterjee BE, Yona S, Flower RJ, Perretti M (2003) Annexin 1 deficiency alters

- leukocyte extravasation in the mouse as determined by flow cytometry. *J VASC RES* 40:335.
130. Getting SJ, D'Amico M, Di Filippo C, Rossi F, **Perretti M**: Melanocortin type 3 receptor exhibits protection in myocardial I/R injury in mice. *INFLAMM RES* 52 (suppl 2): S94, 2003.
 131. Getting SJ, Lam CW, Christian HC, Schiöth H, **Perretti M**: MC3-R, but not MC1-R, mediates the anti-inflammatory actions of melanocortins. *INFLAMM RES* 52 (suppl 2): S140, 2003.
 132. Chatterjee BE, Flower RJ, **Perretti M**: Alteration of the leukocyte-endothelium interaction in the vascular bed of Annexin 1 null mice. *J LEUKOC BIOL* (suppl), p 34, 2003.
 133. Lam CW, Getting SJ, **Perretti M**: "Activation of melanocortin receptors induces cAMP-dependent hemoxygenase expression in macrophage". *J LEUKOC BIOL*, (suppl), p 26, 2003.
 134. Lam CW, Getting SJ, **Perretti M**: Activation of melanocortin receptors induces cyclic AMP-dependent Hemoxygenase-1 expression in murine macrophage. *Proc British Pharmacological Society* 2004: <http://www.pa2online.org/Vol1Issue1abst059P.html>
 135. Yona S, Peiser L, Gordon S, Perretti M, Flower RJ: Stimulus specific defect in the phagocytosis pathways of annexin 1 null macrophages *Proc British Pharmacological Society* 2004: <http://www.pa2online.org/Vol1Issue1abst060P.html>
 136. Chatterjee BE, Flower RJ, **Perretti M**: Altered leukocyte emigration in post capillary venules of the cremaster microcirculation in annexin 1 knockout mice. *BR J PHARMACOL* (in press, 2004).
 137. Getting SJ, Lam CW, **Perretti M**: Activation of melanocortin receptors induces cAMP-dependent hemoxygenase expression in RAW264.7 macrophages. *FASEB J*. A79, 2004.
 136. Getting SJ, Lam CW, D'Amico M, Di Filippo C, Rossi F, Perretti M: Melanocortin type 3 exhibits protection in myocardial I/R injury in mice. *FASEB J*. A86, 2004.
 137. Cooper D, **Perretti M**: Effect of Galectin-1 on neutrophil-endothelial cell interactions under flow. *CARDIOVASC PATHOL* 13 (3) Suppl 1, 2004.
 138. Damazo AS, Yona S, Flower RJ, Oliani SM, **Perretti M**: Protective role for endogenous annexin 1 in mouse endotoxemia. *Proc British Pharmacological Society* 2004 <http://www.pa2online.org/Vol2Issue2abst121P.html>
 139. Kamal AM, Solito E, Flower RJ, **Perretti M**: Analysis of annexin-1 interaction with the human FPR/ALXR receptor system. *Proc British Pharmacological Society* 2004 <http://www.pa2online.org/Vol2Issue2abst126P.html>
 140. Yona S, Heinsbroek S, Gordon S, Perretti M, Flower RJ: Defect in the phagocytosis pathways of annexin 1 null macrophages. *Proc British Pharmacological Society* 2004 <http://www.pa2online.org/Vol2Issue2abst043P.html>
 141. Cooper D, Hayhoe R, **Perretti M**: Effect of annexin-1 on neutrophil-endothelial interaction under flow. *FASEB* 2005.
 142. Hayhoe R, Cooper D, **Perretti M**: Effect of annexin-1 on neutrophil-endothelial interaction under flow conditions in an in vitro flow chamber. *Proc British Pharmacological Society* 2005. <http://www.pa2online.org/abstracts/Vol3Issue4abst002P.pdf>
 143. Norling LV, Cooper D, **Perretti M**: Endogenous galectin-1 inhibits lymphocyte-endothelial cell interactions as determined by small interference RNA. *Proc British Pharmacol Soc* 2005 <http://www.pa2online.org/abstracts/Vol3Issue4abst001P.pdf>
 144. Vong L, D'Acquisto F, Flower RJ, **Perretti M**: Proteolysis of annexin-1 by proteinase

- 3 - an autoantigen in Wegener's Granulomatosis. *Proc British Pharmacol Soc* 2005 <http://www.pa2online.org/abstracts/Vol3Issue4abst006P.pdf>
145. Getting SJ, Grieco P, , **Perretti M**: Anti-inflammatory effects of the MC3 agonist [D-Trp⁸]- γ -MSH in a model of experimental gouty arthritis. *Proc British Pharmacol Soc* 2005 <http://www.pa2online.org/abstracts/Vol3Issue4abst007P.pdf>
146. Huggins A, **Perretti M**, D'Acquisto F: Annexin A1 inhibits the maturation of dendritic cells while increasing their Th1 skewing properties. *Proc British Pharmacol Soc* 2005 <http://www.pa2online.org/abstracts/Vol3Issue4abst072P.pdf>
147. Gavins FNE, Granger DN, **Perretti M**: Annexin1 system protects against murine cerebral ischaemia-reperfusion injury. *Proc British Pharmacol Soc* 2005 <http://www.pa2online.org/abstracts/Vol3Issue4abst005P.pdf>
148. Vong L, D'Acquisto F, Flower R.J, Wikto-Sarsat V, **Perretti M** (2006). Cleavage of annexin-A1 by proteinase 3: a possible cause of Wegener's vasculitis? (2006) Experimental Biology meeting abstracts [url not currently available]. The FASEB Journal, **20**, Abstract #417.2

PARTICIPATION AT MEETINGS

1. Ignesti G, Buffoni F & **Perretti M**: Role of diamine oxidase in the metabolism of putrescine by quail liver. 23rd Congress of the Italian Biochemistry Society, Brescia 26-28 Sept 1987.
2. Mugridge KG, **Perretti M** & Parente L: Perpetuation of interleukin-1 effect on smooth muscle preparations from adrenalectomized rats. Sclavo International Conference "Molecular and Cellular Biology of IL-1, TNF and Lipocortins in Inflammation and Differentiation", Siena 22-25 Oct 1989.
3. Becherucci C, Solito E, **Perretti M**, Mugridge KG, Galeotti C & Parente L: Human recombinant lipocortin 2 has anti-inflammatory properties *in vitro* and *in vivo*. Sclavo International Conference "Molecular and Cellular Biology of IL-1, TNF and Lipocortins in Inflammation and Differentiation", Siena 22-25 Oct 1989.
4. **Perretti M**, Solito E & Parente L: Neutrophil accumulation in rat experimental inflammation: possible involvement of interleukin-1. 1st International Congress on Inflammation, Barcelona 17-22 June 1990.
5. Parente L, Mugridge KG & **Perretti M**: Pharmacological modulation of interleukin-1 and Complete Freund's Adjuvant-induced lethality in adrenalectomized rats. 1st International Congress on Inflammation, Barcelona 17-22 June 1990.
6. Parente L Becherucci C, Mugridge KG, Solito E & **Perretti M**: Lipocortin-derived anti-inflammatory peptides. 18th Aharon Katzir- Katchalsky Conference "From receptor to cell response - physiology and pharmacology", S. Maria Imbaro 9-14 Sept 1990.
7. Parente L, Becherucci C, Mugridge KG, **Perretti M** & Solito E: Activation of arachidonic acid metabolism by interleukin-1. 6th Italian Immunopharmacology Society Congress, Firenze 13-16 Nov 1990.
8. Parente L, **Perretti M**, Wallace JL, Silvestri S & Mugridge KG: The involvement of prostaglandin in the anti-ulcer property of human interleukin-1 β . 13th European Workshop on Inflammation, Verona 8-11 May 1991.
9. Parente L, **Perretti M**, Silvestri S & Mugridge KG: Protective action of human interleukin-1 β in experimental models of gastric ulceration. 4th Italian-Japanese joint meeting on Pharmaceutical Sciences, S.Maria Imbaro 20-22 June 1991.
10. Parente L, **Perretti M**, Wallace JL & Mugridge KG: Mechanism of the protective action of interleukin-1 in the experimental gastric damage in the rat. 7th Congress of

- the Italian Society of Immunopharmacology, Stresa 14-16 Nov 1991.
11. Becherucci C, Mugridge KG, **Perretti M**, Solito E & Parente L: Anti-inflammatory activity of lipocortin-5-derived peptides. Analgesic and Anti-inflammatory Agents, Roma 21 Nov 1991.
 12. **Perretti M**, Ahluwalia A & Flower RJ: Anti-inflammatory actions of a N-terminal peptide of lipocortin 1. 5th Interscience World Conference on Inflammation (INWIN), Geneva 25-27 April 1993.
 13. **Perretti M**, Szabó C & Thiemermann C: Anti-inflammatory effects of interleukin-4 and interleukin-10 in vitro and in vivo. 6th International Conference on Immunopharmacology, Prague 29 May- 1 June 1994.
 14. Parente L, Solito E, Flower RJ & **Perretti M**: Modulation of the inflammatory response by cytokines and lipocortin-1. 27th Italian Pharmacological Society Congress, Torino, 25-29 September 1994.
 15. Montuschi P, Tringali G, Mugridge KG, **Perretti M**, Ghiara P, Navarra P & Parente L: Gastro-intestinal effects of interleukin-1 in the rat: characterization of IL-1 receptor types. 27th Italian Pharmacological Society Congress, Torino, 25-29 September 1994.
 16. Malcangio M, Bowery NG, Flower RJ & **Perretti M**: Effect of interleukin-1 on electrically-evoked SP release from rat isolated spinal cord. Tachykinins '95, Firenze, 16-18 October 1995.
 17. **Perretti M** & Flower RJ: Endogenous lipocortin 1 (annexin I) provides a negative feedback mechanism to inhibit the migration of human neutrophils. 4th European Symposium on Calcium Binding Proteins in Normal and Transformed Cells. Perugia, 2-5 May 1996.
 18. Das A, Flower RJ & **Perretti M**: Using the murine air-pouch as a cavity for eosinophil accumulation: characterisation of responses in ovalbumin (OA) sensitised mice. 8th International Conference of the Inflammation Research Association. Hershey, Pennsylvania 27-31 October 1996.
 19. **Perretti M** & Flower RJ: Lipocortin 1 (LC1) is externalised in human phagocytes to reduce their recruitment. 8th International Conference of the Inflammation Research Association. Hershey, Pennsylvania 27-31 October 1996.
 20. **Perretti M**, Ajuebor MN, Hannon R & Flower RJ: Monocyte chemotactic protein-1 (MCP-1): release and role in zymosan peritonitis. 8th International Conference of the Inflammation Research Association. Hershey, Pennsylvania 27-31 October 1996.
 21. **Perretti M**, Wheller SK, Flower RJ & Pitzalis C: Migration of human leukocytes into artificial skin blisters modulates cellular lipocortin 1 levels. 9th International Conference of the Inflammation Research Association. Hershey, Pennsylvania 31 October – 5 November 1998.

Meeting Organization

1. Organizer and Co-Chair of the Symposium entitled “New Targets for Anti-inflammatory Therapy” during the Winter Meeting of the British Pharmacological Society, Brighton Jan 2003.
2. Organizer of the “Celebration of Rod Flower’s Festschrift – 60th Anniversary”. Royal Society, London 28th November 2005.
3. Member of the Scientific Advisory Board of Life Sciences 2007 (Glasgow 8-12 July 2007). Chair of a Symposium entitled “Trapping the gas: from biochemistry to new therapeutics”.
4. Organizer of the Workshop entitled “Formyl-peptide receptors and their Ligands in Inflammation”, London. 13th June 2008.

5. Organizer and Chair (with N Vergnolle) of the Symposium entitled “The effect of endogenous anti-inflammation in the microcirculation: innovative cues for anti-inflammatory drug development”, 9th World Congress of Microcirculation; (Paris, France, 26th/29th September 2010).
6. Co-organiser (Perretti M, Warner TD), British Microcirculation Society Annual Spring Meeting, London 18th/19th April 2011.
7. Member of the Scientific Advisory Board of the 10th World Congress on Inflammation, June 25-29, 2011. Paris, France.
8. Organiser and Chair (with Rod Flower) of a Symposium entitled “Targeting the resolution of inflammation: opportunities for innovative drug discovery programmes”, Winter Meeting of the British Pharmacological Society, London December 2011.
9. Member of the International Advisory Board, 2012 Symposium The Neutrophil in Immunity, Quebec City, Canada, July 2012.

INVITED keynote and oral lectures

1. Joint Meeting between the British and Italian Pharmacological Societies, Rome 13-16 Sept 1993.
2. 9th National Congress of the Italian Immuno-pharmacology Society, Varese 26-28 October 1993.
3. Satellite of the 12th IUPHAR- "Novel molecular approaches to anti-inflammatory therapy. Toronto, 22-23 July 1994.
4. Workshop on "Glucocorticoid and asthma", Sarasota, Florida. 18-20 December 1995.
5. Lecture Tour in US, April 1996, (including lectures at Louisiana Medical School, Shreveport, Dr DN Granger; SmithKline & Beecham, King of Prussia, Dr L Marshall; Children's Hospital, Cincinnati, Dr C Szabó).
6. San Paolo University, Brazil, invited by Professor G De Nucci, 16th October 1997.
7. Invited at New York University, New York, US by Dr Cronstein and Professor G Weizmann, 6th April 1998.
8. Speaker at the BANFF Inflammation I workshop. Banff 4-7 March 1999.
9. University of Palermo, Italy, invited by Professor L Parente, 19th May 1999.
10. Joint Symposium of the British Cytokine Group & The Italian Society of Immunology, Ferrara 7-8 June 2000.
11. The Quintiles Lecture. British Pharmacological Society, Birmingham 18-21 December 2000.
12. Speaker at the BANFF Inflammation II workshop. Banff 1-4 February 2001.
13. Satellite Symposium of the 30th meeting of the Italian Pharmacological Society. Capri 11-12 May 2001.
14. 7th International Eicosanoid Conference, Nashville, 16-18 October 2001.
15. British Inflammation Research Association. “Novel Targets in Inflammation Research”, Nottingham, 12-13 April 2002.
16. 6th International Symposium on the Immunotherapy of the Rheumatic Diseases. Cyprus, 15-19 May 2002.
17. 5th Imperial College Symposium. Vascular endothelium: role in disease pathogenesis & as a therapeutic target. London, 14th November 2002.
18. Brain-Immune Network Group. “Brain-Immune interactions in Stress: the impact of hormones on diseases” Wellcome Trust sponsored workshop. Bristol 30 November 2002.
19. Speaker at the BANFF Inflammation III Workshop. Banff 30 Jan – 1 Feb 2003.
20. UK Adhesion Group. Birmingham April 4th 2003.

21. Speaker and Symposium Co-chair at the 36th annual meeting of the American Society for Leukocyte Biology. Philadelphia 2-5 October 2003.
22. Speaker at the symposium organized on “New approaches to crystal arthropathy”. American College of Rheumatology, Orlando October 2003.
23. Speaker at the “Apoptosis in Myeloid Cells: Molecular Insights into Disease Processes” organized by the Biochemical Society, Edinburgh 19-20, November 2003.
24. Speaker at the “Novel therapeutic targets for shock and organ injury” international Conference held in Munich, Germany, from 3-7 March 2004.
25. Member of the Advisory Committee and Speaker at “Nitric Oxide, Cytokines & Inflammation - An International Symposium”, Rio de Janeiro, June 6-9, 2004.
26. Speaker at the “Cell Trafficking in Inflammation and Cancer” Symposium organized by the Finnish Academy of Science. Helsinki, June 2004.
27. Member of the Organizing Committee of the Second James Black Conference on “New Targets in Pain and Inflammation” of the British Pharmacological Society, Cambridge 26-29 September 2004.
28. Speaker at the BANFF Inflammation IV Workshop. Banff 3rd – 5th February 2005.
29. Speaker at the European Respiratory Society (Annual Meeting). Copenhagen 17-21 September 2005.
30. Chair at Experimental Biology 2006, San Francisco, American Society of Investigative Pathology. Symposium entitled: Communication at the vessel wall: interactions between endothelial cells and leukocytes.
31. Chair at the joint UK/Germany Adhesion Meeting, London 20th-21st July 2006.
32. Speaker at the 40th anniversary of SBFTE, Rio Preto, Brasil, 19th -22nd October 2006
33. Speaker at the 9th Imperial College Symposium, London 23rd November 2006.
34. Speaker at the BANFF Inflammation V Workshop. Banff 18th-21st January 2007.
35. Invited Speaker at the 4th International Conference on Annexins (Catalina Island, 30 Sept-3 October 2007).
36. Invited Speaker at the 1st Symposium entitled “Innate immunity, Inflammation and Eye Diseases” organized by SIFI Benanti-Chines Foundation. Grottaferrata 8th/9th March 2008 (Rome, Italy)
37. Speaker at the SIG on Vasculitis of the British Society for Rheumatology, 23rd April 2008, Liverpool.
38. Invited Speaker on the Final Symposium of the SFB 293 entitled “Mechanisms of Inflammation” Münster, Germany, 9th-10th December 2008.
39. Invited Speaker at 14th International Vasculitis & ANCA Workshop, Lund – Copenhagen June 6-9, 2009. Minisymposium VI “Vascular Biology and Vasculitis”.
40. Invited Speaker Information update on the 2nd International Symposium for ‘Barrier Function of the Skin and Neuroinflammation’, Budapest, Hungary, 8-9 September 2009.
41. Invited Speaker at the 5th International Conference on Annexins. Bordeaux, France, 24-27 September 2009.
42. Invited Speaker at the satellite meeting of the Society for Glycobiology Conference (San Diego, Nov 12th 2009).
43. 1st International Symposium on Challenges and New Technologies in Drug Discovery & Pharmaceuticals Production (Rio de Janeiro, May 4th -5th 2010).
44. Wenner-Gren Foundations International Symposium “Inflammation in Atherosclerosis: Activators & Mediators” Stockholm, May 26th -29th 2010.
45. Meeting on Emerging Oncogenic Viruses; “Inflammation and Cancer” (San Pietro in Bevagna, Italy, 2nd – 6th June 2010).
46. Research Day at McMaster University, Hamilton, Canada (18th June 2010).

47. EULAR 2010. Workshop on Resolution of Inflammation “Steroids and Annexins: how do they work in inflammation”. (Rome, Italy 16th – 19th 2010).
48. German Society of Rheumatology, Berlin September 18th, “Annexin A1 and the resolution of inflammation”.
49. 9th World Congress of Microcirculation; ‘Melanocortins and anti-inflammation’ Symposium Organiser (Endogenous Inhibitors of leukocyte/endothelial interaction in the vasculature; Paris, France, 26th – 29th September 2010).
50. Plenary Lecture at the Brazilian Society for Pharmacology meeting (SBFTE), Ribeirao Preto, SP, Brazil. October 19th 2010.
51. New York Academic of Science Symposium entitled ‘New mechanisms on the Resolution of Inflammation: Implications in Health and Disease’, Biochemical Pharmacology Discussion Group of the Academy; 25th Jan 2011.
52. BANFF Workshop on Inflammation; 29th Jan 2011
53. 10th World Congress of Inflammation; Paris June 2011.

OTHER ORAL PRESENTATIONS

1. 149th Meeting of the British Pharmacological Society, Dublin 8-10 July 1992.
2. 151st Meeting of the British Pharmacological Society, Cambridge 5-7 Jan 1993.
3. 5th INWIN Conference, Geneva 25-27 April 1993.
4. 6th International Conference on Immunopharmacology, Prague, 29 May- 1 June 1994.
5. 1994.
6. 2nd International Congress on Phagocytes, Pavia, 4-7 September 1996.
7. 8th International Conference of the Inflammation Research Association.
8. Hershey, Pennsylvania 27-31 October 1996.
9. 28th Meeting of the Italian Pharmacological Society, Bari 30 April- 3 May 1997.
10. 4th World Congress on Inflammation, Paris 27-30 June 1999.
11. Experimental Biology ’02, Orlando 8-13 April 2002.
12. Experimental Biology ’03, San Diego 11-15 April 2003.
13. Experimental Biology ’05, San Diego 1-5 April 2005.
14. ESCI 43rd Annual Meeting, Phagocyte Workshop, Frankfurt, 1-4 April 2009.
15. ESCI 44th Annual Meeting, Phagocyte Workshop, Bari, 24-27 February 2010.

INVITED SEMINARS

Invited to present scientific data generated in the laboratory to several UK academic laboratories, and sometimes to pharmaceutical departments. The most recent ones follow:

1. January 1999, Imperial College, Leukocyte Biology Section, “Lipocortin 1 modulates neutrophil recruitment”.
2. April 1999, MRC Immunohistochemistry Unit, Department of Biochemistry, University of Oxford, “The annexin 1 pathway in human leukocytes”.
3. September 1999, Hammersmith Hospital, Department of Cardiovascular Medicine: “Anti-inflammatory mediators that regulate leukocyte emigration”.
4. November 1999, Kennedy Institute as part of the ARC Fellows’ meeting “Annexin 1 and the process of cell migration”.
5. December 1999, Hoechst Pharmaceuticals, Frankfurt (Germany), “Antiinflammatory mediators”.
6. May 2000, Chiesi Pharmaceuticals, Parma (Italy), “Annexin 1 peptides”.

7. May 2000, London Medical Society, "Pharmacology of leukocyte migration".
8. September 2000, Celltech Chiroscience (Slough), "Bradykinin B1 receptor and other novel targets for anti-inflammatory therapy".
9. November 2000, Kennedy Institute, "Pharmacological modulation of leukocyte migration".
10. December 2000, King's College London, Sackler Institute Seminars, "Leukocyte annexin 1 receptor".
11. February 2001, Department of Human Anatomy, University of Oxford, "Annexin 1 receptor and neutrophil biology".
12. March 2001, Imperial College, Leukocyte Biology Section, "The annexin 1 receptor"
13. 12th October 2001. Louisiana State University, Department of Molecular and Cellular Physiology, Shreveport LA, "Anti-inflammatory agonists: new perspectives for drug therapy".
14. 30th November 2001, Cardiff University Medical School, "Annexin 1 and the neutrophil".
15. 29th June 2002, University of Naples, Italy, "Nitro-steroids and Galectins, new ways to drug discovery".
16. 30th January 2003, University of Calgary, Canada, "Annexin 1 and Galectin-1" two anti-inflammatory agonists".
17. 15th April 2003, Johnson & Johnson Pharmaceuticals, La Jolla, CA "Anti-inflammation: opportunities for drug discovery".
18. 4th June 2003, Edinburgh Medical School, Edinburgh, Scotland "Annexin 1: an inhibitor of neutrophil activation *in vitro* and *in vivo*".
19. 3rd December 2003, Translational Oncology, Cancer Research UK, Queen Mary University of London "Imaging in inflammatory research".
20. 31st March 2004, University of Naples, Italy, Department of Pharmacology "Anti-inflammatory Agonists".
21. 13th May 2004, University College Dublin, The Conway Institute "Annexin 1 and its receptors: impact on neutrophil trafficking".
22. 12th June 2004, University of San Paolo, Sao José do Rio Preto, Brazil "Mechanisms of inflammation and new avenues for drug discovery".
23. 6th December 2004, University of Bradford "Annexin 1 biology and anti-inflammation".
24. 18th March 2005, GSK Harlow, "COX-2 and beyond: new approaches to the identification of anti-inflammatory targets"
25. 15th June 2005, Schering-Plough, Amsterdam "COX and LOX, is two better than one?"
26. 19th July 2006, Bristol University "The homeostatic actions of annexin 1 in vascular inflammation".
27. 24th May 2007, Brigham and Women's Hospital, Boston "The homeostatic annexin 1 system in host defence".
28. 19th June 2007, University of Chieti, Italy "The homeostatic annexin 1 system in host defence".
29. 22nd June 2007, University of Westminster, London, "The homeostatic annexin 1 system in inflammation".
30. 29th June 2007, Edinburgh University, MRC Centre for Inflammation, "Annexin 1 receptor in vascular homeostasis".
31. 11th January 2008. John Squire Seminar, Birmingham University Medical School, "The annexin 1 pathway in vascular inflammation".
32. 7th October 2008. Novartis, Horsham "ALX as an anti-inflammatory GPCR".
33. 25th February 2009. UCL Department of Medicine "Endogenous anti-inflammatory GPCRs".

34. 14th July 2009. Verona, Department of Pathology “Annexin A1 and the control of the immune response”.
35. 4th March 2010. Sir Dunn School of Pathology, Oxford University “GPCRs as effectors of anti-inflammation”.
36. 10th June 2010. Cardiovascular Seminar Series. Birmingham University.
37. 9th September 2010. British Atherosclerosis Society, Autumn Meeting, Oxford.
38. 29th September 2010. London Vascular Biology Forum, Imperial College London.
39. 2nd November 2010. CLASS Speaker, University College Dublin.
40. 17th February 2011. Seminar at Hull and York Medical School, Hull City.

SUPERVISED RESEARCH ASSISTANTS

Ms Samantha K Wheller	1993-2003
Ms Prescilla Sawmynaden	2003-2005
Mr Guglielmo Rosignoli	2003-2005
Mr Jesmond Dalli	2005-

SUPERVISED POST-DOCTORAL SCIENTISTS

Dr Paul Newbold	1995
Dr Anuk Das	1996-2000
Dr Graham Allcock	1998-2001
Dr Lucia Mancini	1999-2007
Dr Stephen J Getting	2001-2005
Dr Ahmad M Kamal	2001-2004
Dr Mark Paul-Clark	2001-2003
Dr Thong V Cao	2001-2002
Dr Mylinh La	1999-2003
Dr Dianne Cooper	2003-
Dr Fulvio D’Acquisto	2003-
Dr Felicity NE Gavins	2004-2007
Dr Paula Urquhart	2005-2007
Dr Derek Renshaw	2005-2007
Dr André LF Sampaio	2005-2009
Dr Hetal Patel	2006-
Dr Magali Pederzoli-Ribeil	2007-2010
Dr Elisabetta Liverani	2008-2010
Dr Nilour Moradi-Bidhendi	2008-2011
Dr Adam Al-Kashi	2008-
Dr Lucy V Norling	2008-
Dr Karin Greco	2008-
Dr Trinidad Montero-Melendez	2009-
Dr Suchita Nadkarni	2009-
Dr Jenna Cash	2009-
Dr Kristin N Kornerup	2010-2011
Dr Jesmond Dalli	2009-2010

SUPERVISED POST-GRADUATED STUDENTS

Dr Jeanette G Harris	from February 1993 to June 1996 (PhD degree Sept 1996)
Maureen N Ajuebor	from November 1995 to October 1998 (PhD degree Nov 1998)
Anita Tailor	from August 1995 to November 1998 (PhD degree June 1999)
Stephen J Getting	from April 1996 to January 2000 (PhD degree January 2000)
Lina HK Lim	from October 1996 to October 1999 (PhD degree April 2000)
Maria Carollo	from January 1998 to December 2000 (PhD degree October 2001)
Felicity Gavins	from November 2000 to December 2003 (PhD degree Jan 2004)
Simon Yona	from October 2001 to December 2004 (PhD degree in April 2005)
Bristi E Chatterjee	from October 2001 to December 2004 (PhD degree in March 2005)
Connie Lam	from October 2001 to December 2004 (PhD degree in Feb 2005)
Linda Vong	from October 2003 to September 2006 (PhD degree in April 2007)
Richard PG Hayhoe	from October 2003 to September 2006 (PhD degree in April 2007)
Lucy V Norling	from October 2004 to September 2007 (PhD degree March 2008)
Nicholaidis Paschalidis	from October 2005 to September 2008 (PhD degree May 2009)
Giovanna Leoni	from October 2005 to September 2008 (PhD degree May 2009)
Jesmond Dalli	from Oct 2005 to Oct 2009 (Part-time) (PhD Degree Dec 2009)
Neil Dufton	from October 2006 to November 2009 (PhD Degree Feb 2010)
Anthony Huggins	from September 2007
Asif Iqbal	from October 2007
Beatrice Gittens	from October 2010
Alex Doyle	from December 2010
Sara Headlands	from Jan 2011
Stefania Bena	from Jan 2011

SUPERVISED UNDER-GRADUATED STUDENTS

Dominic Hague	Manchester University	1995
Anbalakan Paramasivan	King's College London	Sept 02-Aug 03
Amhed Merghani	Barts and the London	March-July 04
Anthony Huggins	King's College London	July 05-June 06

PhD and MD STUDENTSHIP EXHAMINATIONS

PhD:

- Joanne M Cousin, University of Edinburgh, February 1998.
- Younhang Yang, Monash University, Melbourne AUS, April 1999.
- Catherine de Coupade, University of Paris, France, November 1999.
- Linda Connelly, UCL, University of London, January 2002.
- Angela Burman, University of Birmingham, October 2003.
- Emma Taylor, University of Edinburgh, November 2003.
- Smaira Wahid, KCL, University of London, February 2004.
- Karen F Buckland, Imperial College, University of London, August 2004.
- Mark J Rose, KCL, University of London, January 2005.
- Keira Reville, University College Dublin, July 2005.
- Sarah Nolan, University of Sheffield, September 2005.
- Kirstie Eccles, University of Bradford, March 2006.
- Alan Watson, KCL, University of London, September 2006.
- Shaun McMaster, Imperial College London, July 2007.
- Antonio Manzo, King's College London, November 2007.
- Fiona Russell, King's College London, December 2007.

- Sarah J Collington, Imperial College London, December 2008.
- Jane Martin, University of Sheffield, May 2009
- Rachel Armstrong, King's College London, November 2009.
- Mrs Sahir S Hamdulay, Imperial College London, July 2010.
- Ms Irini Bournazou, University of Edinburgh, July 2010.
- Ms Alex Kendall, Peninsula Medical School, Exeter, October 2010.
- Mr Kamrul Hasan, Imperial College London, January 2011.
- Mr Michael Spyridon, Reading University, February 2011.

MD:

- Simon Jordan, Imperial College, University of London, June 2001

COLLABORATIONS

Over the years I have set up a series of collaborations, most of them fruitful both in terms of funding and scientific achievements, to further progress on the several aspects of my research interests. I am listing the current ones:

University of London:

Professor Y Chernajovsky (QMW), 2-year project grant funded by The Wellcome Trust, on galectins.

Professor C Pitzalis (King's College London), long-standing collaboration on glucocorticoids and leukocyte migration.

Dr S Nourshargh (Imperial College, Hammersmith Hospital), work on elastase knock-out mice and annexin 1 degradation.

Dr E Solito (Imperial College, Charing Cross Hospital), annexin 1 and neutrophil biology.

National:

Dr A Day (MRC, University of Oxford), 2-year project grant funded by the British Heart Foundation, on TSG-6.

International:

Professor DN Granger (LSU Medical Center, Shreveport), intravital microscopy and leukocyte migration.

Dr Csaba Szabó (Semmelweis University, Budapest, Hungary), mechanisms of inflammation.

Professor CN Serhan (Harvard Medical School, Boston, US), Annexin 1 receptor; Resolution of Inflammation.

Dr S Fiorucci (Perugia, Italy), NO-steroids.

Visiting Scientists:

My laboratory has welcomed a list of self-funded research scientists from abroad. We have hosted:

- Dr Marco A Martins (Fiocruz, Rio de Janeiro, Brazil): 6 months from July 1996
- Dr Silvia Canaider (University of Bologna, Italy), 6 months from March 1998
- Ms Marta V Medeiros (University of Campinas, Brazil), 5 months from April 1998
- Professor Sonia M Oliani (University of San Paolo, Brazil), 2 and a half years, from March 1998

- Dr Mario Allegra (University of Palermo, Italy), 1 year from January 1999; 6 months in 2005.
- Mr Amilcar Damazo (University of San Paolo, Brazil), 1 year from June 1999; 1 year from August 2003.
- Ms A Sanz Gomés (University of Madrid, Spain), 4 months from April 1999
- Dr Michele D'Amico (University of Naples, Italy): 6 months from April 1999
- Dr Silvio Bandiera (University of Palermo, Italy), 1 year from September 1999
- Ms Fiorita Roviezzo (University of Naples, Italy); 14 months from June 2001
- Ms Graziela Cerchiaro (University of San Paolo, Brazil); 10 months from February 2002
- Ms Claudia Avellone (University of Palermo, Italy); 6 months from March 2002
- Ms Luisa Lavagno (University of Novara, Italy); 15 months from September 2002
- Dr Rosa M Giner (University of Valencia, Spain); 1 year from September 2002
- Dr Leonardo Moraes (University of San Paolo, Brazil); 1 year from November 2002.
- Ms Simona Ercolino (University of Salerno); 1 year from Jan 2006.
- Dr André L Sampaio (Fiocruz, Rio de Janeiro, Brazil); 2 years from August 2005.
- Ms Urszula Florczyk (Jagiellonian University, Holland); 2 months from July 2006.
- Mr Vincenzo Brancaleone (University of Naples); 1 year from Jan 2007.
- Ms Daniela Maia Cavalcanti (University of Sao Paolo); 6 months from June 2008.
- Ms Tatiana Pimentel (University of Sao José do Rio Preto, Sao Paolo); 7 months from January 2009.
- Ms Stefania Bena (Erasmus Student, University of Turin, Italy); 10 months from September 2009.
- Mr Carmine Giorgio (Visiting PhD Student, University of Parma, Italy); 12 months from September 2009.
- Ms Valentina Perricone (University of Catania); 6 months from November 2009.
- Ms Lorenza Rattazzi (Erasmus Student, University of Turin, Italy); 8 months from April 2010.
- Ms Patricia G Trentin (Fiocruz, Rio de Janeiro); 5 months from May 2010.
- Ms Chiara Fedele (Erasmus Student, University of Siena, Italy); 8 months from March 2010.
- Dr Sinead Ryan (Trinity College, Dublin); SIRC fellow; 2 months from May 2010.
- Dr Carmela

ADMINISTRATION

- Member of the Post-Graduates studies board of the Division of Pharmacology, Barts and The London, School of Medicine and Dentistry. 1999-2001
- Member of the Charterhouse Research Strategy group, Division of Pharmacology, Barts and The London, School of Medicine and Dentistry. 2000-2001
- Member of the Meeting Committee of the British Pharmacological Society. 2001- 2006.
- Member of the Founding Committee of the London Vascular Biology Forum 2001 –
- Member of the William Harvey Research Institute Board; 2001 – to present

- Member of the William Harvey Research Foundation. 2001-2007
- Member of the M.Res. in Vascular Inflammation Committee. 2002-2005
- Director of William Harvey Research Limited 2004 - to present
- Deputy Director of the William Harvey Research Institute 2006 - to present
- Member of the NIHR Biomedical Research Unit Executive Board 2008 – to present
- Member of the Scientific Board of the Musculoskeletal Clinical Academic Unit 2008 –
- Member of the Executive Committee of the Oliver Bird PhD Programme (joint QMUL/KCL), Nuffield Foundation 2009 – to present

CONSULTANCIES

Trega Biosciences, San Diego	1998
Johnson and Johnson	2002
Nicox SA, Nice	2002-2004;
Glycomimetics,	2004-
NicOx Research Institute, Milan	2005; 2007/2008
Unipath Inverness	2005
BioRexis	2006
Compugen	2007