

## CURRICULUM VITAE

**Name:** Diane McMahon-Pratt

### **Education:**

1969 B.Sc. University of Southern California  
Los Angeles, CA [Chemistry]  
1971 M.A. University of California  
Santa Barbara, CA [Chemistry]  
1971-1973 Goodger Trust Fellow, Oxford University  
Oxford, England [Immunochemistry]  
1978 Ph.D. Harvard University  
Boston, MA [Immunochemistry]  
1978-1980 Post-doctoral Fellow in Medicine  
Harvard Medical School (Immunoparasitology)

### **Academic Appointments:**

1980-1981 Instructor in Medicine  
Harvard Medical School, Boston, MA  
1981-1985 Assistant Professor, Department of Medicine  
Harvard Medical School, Boston, MA  
1985-1986 Assistant Professor, Department of Epidemiology and Public Health  
Yale University School of Medicine, New Haven, CT  
1986-1995 Associate Professor, Department of Epidemiology and Public Health  
Yale University School of Medicine, New Haven, CT  
1995 -present Professor, Department of Epidemiology of Microbial Diseases  
Yale University School of Public Health, New Haven, CT

### **Professional Honors and Recognition:**

#### National

1993 Bailey K. Ashford Medal - American Society Tropical Medicine and Hygiene  
1994 Burroughs-Wellcome Lecturer - N.I.H. Laboratory of Parasitic Diseases  
2016 Elected to Connecticut Academy of Science and Engineering

**Professional Appointments and Service:**

**INTERNATIONAL**

1971-1973	Visiting Scientist, Goodger Trust Grant, Oxford University, England
1985	Co-Organizer, (with Dr. J. Blackwell). International Conference on Immunological and Biochemical Approaches to the Study of Leishmaniasis. Cotswalds, England. December, 1985.
1991	WHO/T.D.R. Review of Parasitological Vaccine Program (World Health Organization, Geneva)
1992	Organizer, W.H.O. Workshop, December, 1992. Pan American Health Organization. Washington, D.C.
1993	Organizer, W.H.O. Workshop, December 1993, Identification and diagnosis of Leishmania species. Cali, Colombia.
2004	WHO/T.D.R. Review of Leishmaniasis Program (World Health Organization, Geneva)
2005	WorldLeish3 –Italy, April, 2005: Organizing Committee; review abstracts and organize scientific sessions
2007	Co-organizer (with Drs. J. Blackwell (Cambridge University), Paul Kaye (University of York) and Mary Wilson (University of Iowa)). International Conference on post-genomic research strategies for the development of vaccines and drugs against leishmaniasis. Cotswalds, England. September, 2007.
2009	WorldLeish4 –India, 2008: Organizing Committee; reviewed abstracts and organized scientific sessions
2013	WorldLeish5 – Brazil 2013: Organizing committee; reviewed abstracts and worked with committee on scientific sessions
2014	International Congress of Parasitology; Mexico City. Organized and Chaired Symposium Session
2015-17	WorldLeish6 – Central Organization Committee Responsible for the Venue and organizing program; will be reviewing abstracts and determining scientific sessions

**Board of Reviewers:**

1988-2000	Journal of Eukaryotic Microbiology
1993-2007	Editorial Board, Memorias Oswaldo Cruz
2007- present	Advisory Board, Memorias Oswaldo Cruz
1999-2012	Section Editor, American Journal of Tropical Medicine & Hygiene
2012- 2016	Editorial Board, American Journal of Tropical Medicine and Hygiene
2009-2016	Editorial Board, PLoS Neglected Tropical Diseases

Serve as a reviewer for: *Journal of Infectious Diseases, PLoS Neglected Tropical Diseases; PLoS ONE; Journal of Immunology, Infection and Immunity, Nucleic Acids Research, Journal of Investigative Dermatology, PLoS Pathogens, European Journal of Immunology, American Journal of Tropical Medicine and Hygiene, Experimental Parasitology*

NATIONAL

1986	Site Visit and Review - Intramural Program of the Laboratory of Parasitic Diseases, N.I.H.
1988-1992	<b>N.I.H. Study Section</b> - Tropical Medicine and Parasitology
1988-1989	Consultant/Reviewer U.S.A.I.D.
1990	N.I.H. Site Visit Review Group, Dartmouth University
1991	<b>Gordon Conference</b> on Biological Aspects of Parasitism. August, 1991 (Co-organizer with Dr. D. Despommier).
1992- 2000	N.I.H. Reviewers Reserve
1993-1997	Councilor, American Society for Tropical Medicine and Hygiene
1993	Organizer, <b>Gordon Conference</b> on Molecular and Cellular Aspects of Parasitism. June, 1993.
1993 - present	Ad Hoc Reviewer - N.I.H.
1993	FDA, Review Panel, Internal Review of FDA Vaccine and Parasitology Groups, Washington, D.C. Sept.20-23.
1994	Reviewer Site Visit FDA Intramural Research
1994-1998	Representative, Federation of Parasitological Societies (for American Society of Tropical Medicine and Hygiene)
1995	Advisory Committee, Review of the Department of Tropical Public Health, Harvard School of Public Health
1998-2000 & 2009	Nominating Committee, American Society of Tropical Medicine Hygiene
1999	Ad Hoc Reviewer, NIH, Microbiology and Infectious Disease Research
1999	Ad Hoc Reviewer, NIH TMP/Vector Biology Study Section
March, 2000	Review Panel, Howard Hughes, International Infectious Disease Program
April, 2000	Review Panel, University of Pennsylvania, Graduate Program in Parasitology
2001-Present	Member, Program Committee American Society of Tropical Medicine and Hygiene (Annual Meeting)
2003	Ad Hoc Reviewer - Fogarty NIH
2000-2004	NIH Microbiology and Infectious Disease Research Study Section member
2004	Ad Hoc Reviewer, NIH - Vaccine Development Grant
2006	Review Panel - FDA Parasitic Diseases section, Bethesda, MD
2014	NIH- Reviewer ICIDR Program Applications; July and August, 2014
2015	NIH IHD Study Section, Ad Hoc member
1990-present	Served as a reviewer for grant applications to the National Science Foundation, Canadian Research Foundation, Veterans Administration and World Health Organization and US Army Research, Wellcome Trust (England), Fogarty, NIH, Swiss National Science Foundation

**YALE UNIVERSITY SCHOOL OF MEDICINE AND YALE SCHOOL OF PUBLIC HEALTH**

1988-1994	International Committee (Downs Fellowship)
1991-1999	Co-Operating Program in the Biomedical Sciences/BBS Graduate Program, EPH Representative
1995-1999	Coordinator, Microbiology Graduate Program, Yale University, BBS Program
1998-2000	Appointments and Promotions Committee, Yale School of Medicine
1999-2010	Executive Council, Microbiology Graduate Program, Yale University
1999-2012	Admission Committee, Microbiology Graduate Program, Yale University
2000, 2001 2006, 2007, 2011	Provost's Appointments and Promotions Committee of Yale School of Public Health
2001-2002	Senior Women - Space and Infrastructure Committee, Co-Chair Yale University School of Medicine
2001-2004	Yale University School of Medicine: Senior Faculty Allotment Committee
2009-2011	Downs' International Fellowship Committee
2009 -present	YSPH Education Committee
2014 - 2016	Member Executive Committee, SWIM (Status on Women in Medicine)
2015 - present	Status of Women in Medicine; Vice-Chair of Executive Committee (2015-2016)
2015	Member, Dean's AD-15 Advisory Committee (Resolution Promotion Issue)

Also served on faculty promotion committees, junior faculty mentoring committees, MPH and Ph.D. thesis committees.

**BIBLIOGRAPHY**

**REVIEWS AND CHAPTERS**

1. McMahon-Pratt, D., Jaffe, C.L. and Grimaldi, G. 1983. Application of Monoclonal Antibodies to the Classification of *Leishmania* Species." In: Genes and Antigens of Parasites -A Laboratory Manual. C.M. Morel, editor. UNDP/WORLDBANK/WHO, Brazil. pp. 127-143.
2. Jaffe, C.L., McMahon-Pratt, D. and Grimaldi, G. 1983. "The Cultivation and Cloning of *Leishmania*." In: Genes and Antigens of Parasites - A Laboratory Manual. C.M. Morel editor. UNDP/WORLD BANK/WHO, Brazil. pp. 48-98.
3. Grimaldi, G., Jaffe, C.L. and McMahon-Pratt, D. 1983. "The Use of Monoclonal Antibodies

in Immunohistochemical Immunocytochemical Techniques for Light and Electron Microscopy." In: Genes and Antigens of Parasites - A Laboratory Manual. C.M. Morel, editor. UNDP/WORLD BANK/WHO, Brazil. pp. 427-449.

4. Grimaldi, G., Tesh, R. and McMahon-Pratt, D. 1990. New World *Leishmania* - a Review. *Am. J. Trop. Med. Hyg.* 41:687-725.
5. Grimaldi, G. and McMahon-Pratt, D. 1990. Leishmaniasis and its etiologic agents in the New World: An overview. In: *Progress In Clinical Parasitology*. Vol. 2. T. Sun, ed. W.W. Norton and Co., New York. pp. 73-118.
6. McMahon-Pratt, D. and Alexander, J. 2004. Does the *L. major* paradigm pathogenesis and protection hold for New World cutaneous or the visceral disease? ***Immunol. Rev.***, **201**:206-24.

#### ARTICLES

1. Fife, T.H. and McMahon, D.M. 1969. The acid- and water- catalyzed hydrolysis of  $\rho$ -nitrophenyl esters. ***J. Am. Chem. Soc.*** **91**:7481.
2. Fife, T.H. and McMahon, D.M. 1969. Hydrolysis of bis(4-nitrophenyl)-carbonate and the general base catalyzed hydrolysis of 0-(4-nitrophenylene) carbonate. ***J. Org. Chem.*** **35**:3699.
3. Bruice, T.C., Kury, P.G. and McMahon, D.M. 1970. Chromophoric lactones and the mechanism of  $\alpha$ -chymotrypsin action. ***J. Am. Chem.*** **92**:6674
4. Fife, T.H., Hutchins, J.E.C. and McMahon, D.M. 1972. Atypical deacylation of the acyl-enzymes formed in the reaction of  $\alpha$ -chymotrypsin with bis(4-nitrophenyl)-carbonate and 0-(nitrophenylene) carbonate. ***J. Am. Chem. Soc.*** **94**:1316.
5. Bruice, T.C. and McMahon, D.M. 1972. Nucleophilic selectivity in the attack at amide bonds. Reactivity of oxygen and nitrogen nucleophiles with N-acetyldedhydrophenylalanyl-L-proline diketopiperazine. ***Biochemistry*** **11**:1273.
6. Pratt, D.M. and Mole, L.E. 1975. Sequence studies on the constant region of the Fd sections of rabbit immunoglobulin G of different allotype. ***Biochem. J.*** **151**:337.
7. McMahon-Pratt, D., Parkman, R., Kaplan, D., Schwaber, J., Strominger, J.L. and Scher, C.D. 1977. Abelson virus transformed lymphocytes: nulls cells that modulate H-2. ***Cell*** **12**:683.
8. Evans, R.L., Faldetta, T.J., Humphreys, R.E., Pratt, D.M., Yunis, E.J., Schlossman, S.F. 1978. Peripheral human T-cells sensitized in mixed leukocyte culture synthesize and express Ia-like antigens. ***J. Exp. Med.*** **148**:1440.
9. McMahon-Pratt, D. 1978. A study of human T lymphocyte surface antigens. Ph.D. Thesis, Harvard University.
10. McMahon-Pratt, D., Schlossman, S.F. and Strominger, J.L. 1980. Human T lymphocyte

- surface antigens: partial purification and characterization utilizing a high-titer heteroantiserum. **J. Immunol.** **124**:1449.
11. McMahon-Pratt, D. and David, J.R. 1981. Monoclonal antibodies that distinguish new world species of *Leishmania*. **Nature** **291**:581.
  12. McMahon-Pratt, D. and David, J.R. Applications of monoclonal antibodies to the taxonomy of *Leishmania*. Proceedings of the WHO Workshop on *Leishmania* Taxonomy. Washington, D.C., November 1980.
  13. McMahon-Pratt, D. and David, J.R. 1982. Demonstration of promastigote stage-specific membrane protein on *L. mexicana amazonensis*. **Mol. Biochem. Parasitol.** **6**:317.
  14. McMahon-Pratt, D., Bennett, E., and David, J.R. 1982. Monoclonal antibodies that distinguish subspecies of *Leishmania braziliensis*. **J. Immunol.** **129**:926.
  15. Wirth, D. and McMahon-Pratt, D. 1982. Rapid identification of *Leishmania* species by specific hybridization of kinetoplast DNA in cutaneous lesions. **Proc. Nat'l Acad. Sci.** **79**:6999 (USA).
  16. Landfear, S.M., McMahon-Pratt, D. and Wirth, D.F. 1983. Tandem arrangement of tubulin genes in the protozoan parasite *Leishmania enrietti*. **Mol. Cell Biol.** **3**:1070.
  17. Jaffe, C. and McMahon-Pratt, D. 1983. Monoclonal antibodies specific for *Leishmania tropica*. I. Characterization of antigens associated with stage- and species- specific determinants. **J. Immunol.** **131**:1987.
  18. Anderson, S., David, J.R. and McMahon-Pratt, D. 1983. *In vivo* protection against *Leishmania mexicana amazonensis* mediated by monoclonal antibodies. **J. Immunol.** **131**:1616.
  19. McMahon-Pratt, D., Modi, G. and Tesh, R. 1983. Detection of promastigote stage-specific antigens of *Leishmania mexicana amazonensis* developing in the midgut of *Lutzomyia longipalpis*. **Am. J. Trop. Med. Hyg.** **32**:1268.
  20. McMahon-Pratt, D. and David, J.R. 1982. Application of Monoclonal Antibodies Produced by Hybridoma Technology and their Application to the Study of Diseases - Proceedings of a Symposium held at the National University of Singapore 19-23 October 1981. V. Houba and S.H. Chan, editors. UNDP/WORLD BANK/WHO, Geneva. pp. 75-85.
  21. Jaffe, C.L., Bennett, E., Grimaldi, G. and McMahon-Pratt, D. 1984. Production and characterization of species specific monoclonal antibodies against *Leishmania donovani* for immunodiagnosis. **J. Immunol.** **133**:440.
  22. Huang, P.L., Roberts, B.E., McMahon-Pratt, D., David, J.R. and Miller, J.S. 1984. Structure and arrangements of the  $\beta$ -tubulin genes of *Leishmania tropica*. **Mol. Cell Biol.** **4**:1372.
  23. Pan, A.A., McMahon-Pratt, D. and Honigberg, P.M. 1984. *Leishmania mexicana pifanoi*: antigenic characterization of promastigote and amastigote stages by solid phase radioimmunoassay. **J. Parasitol.** **70**:834.
  24. Grimaldi, G., Jaffe, C.L., McMahon-Pratt, D. and Falquetto, A. 1984. A simple procedure for the isolation of leishmanial parasites and for the recovery of parasite virulence in avirulent stocks. **Trans. Roy. Soc. Trop. Med. Hyg.** **78**:560.

25. Cuba, C.A., Miles M., Verenat, A., Barker, D.C., McMahon-Pratt, D., Barreto, A.C. and Marsden, P.D. 1985. Três Braços, Bahia, Brazil, a mucocutaneous leishmaniasis focus. Characterization and classification of the *Leishmania* strains isolated from humans and dogs. **Trans. Roy. Soc. Trop. Med. Hyg.** **79**:500.
26. Saravia, N.G., Holguin, A.F., McMahon-Pratt, D. and D'Alessandro, A. 1985. Agents of mucocutaneous leishmaniasis in Colombia. **Am. J. Trop. Med. Hyg.** **34**:714.
27. McMahon-Pratt, D., Bennett, E., Grimaldi, G. and Jaffe, C.L. 1985. *Leishmania mexicana* specific antigens detected by monoclonal antibodies. **J. Immunol.** **134**:1935.
28. Shaw, J.J., Lainson, R., McMahon-Pratt, D. and David, J.R. 1987. Serodemes of *Leishmania braziliensis braziliensis* and *L. b. guyanensis*. Colloques Internationaux du Centre National de al Recherche Scientifique. La Taxonomie et al Phylogenesse des *Leishmania*, Montpellier, 1984. pp. 179-183.
29. McMahon-Pratt, D., Jaffe, C.L., Bennett, E. and Grimaldi, Jr., G. 1987. Analysis of *Leishmania* species employing monoclonal antibodies. Colloques Internationaux du Centre National de al Recherche Scientifique. La Taxonomie et al Phylogenesse des *Leishmania*. Montpellier, 1984. pp. 173-178.
30. Olivera Neto, M.P., Grimaldi, Jr., G., Momen, H., Pacheco, R.S., Marzochi, M.C.A. and McMahon-Pratt, D. 1986. Active cutaneous leishmaniasis in Brazil, induced by *Leishmania donovani chagasi*. **Mem. Inst. Oswaldo Cruz.** **81**:303.
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32. Shaw, J.J., Lainson, R., Ryan, L., Braga, R.R., McMahon-Pratt, D. and David, J.R. 1987. Leishmaniasis in Brazil: XXIII. The identification of *Leishmania braziliensis braziliensis* in wild caught sandflies, using monoclonal antibodies. **Trans. Roy. Soc. Trop. Med. Hyg.** **81**:69.
33. Grimaldi, Jr., G., David, J.R. and McMahon-Pratt, D. 1987. Identification and distribution of New World *Leishmania* species characterized by serodome analysis using monoclonal antibodies. **Am. J. Trop. Med. Hyg.** **36**:270.
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35. Kahl, L.P. and McMahon-Pratt, D. 1987. Structural and antigenic characterization of a species and promastigote-specific *L. mexicana amazonensis* membrane protein. **J. Immunol.** **138**:1587.
36. McMahon-Pratt, D., Jaffe, C.L., Kahl, L., Langer, P., Lohman, K., Pan, A., Rivas, L. 1987. In: NATO Advanced Research Workshop: Host-Parasite Molecular Recognition and Interaction in Protozoal Infections: Characterization of developmentally regulated molecules of *Leishmania*. Vol. III. p. 123-136.
37. Pan, A. and McMahon-Pratt, D. 1988. Monoclonal antibodies specific for the stage of *Leishmania pifanoi*. I. Characterization of antigens associated with stage- and species- specific determinants. **J. Immunol.** **140**:2406.
38. Champisi, J. and McMahon-Pratt, D. 1988. Leishmaniasis vaccine studies: The M-2

- membrane glycoprotein protects against infection with *L. amazonensis*. **Infect. Immun.** **56**:3272-3279.
39. Beverley, S.M., Ismach, R. and McMahon-Pratt, D. 1987. Evolution of the genus *Leishmania* Ross, 1983, as revealed by comparisons of nuclear DNA restriction fragment patterns. Colloques Internationaux du Centre National de la Recherche Scientifique. La Taxonomie et la Phylogenese des *Leishmania*. pp. 265-267.
  40. Jaffe, C.L. and McMahon-Pratt, D. 1988. The identification of membrane glycoprotein in *Leishmania* species. **J. Parasitol.** **74**:548-561.
  41. White, A.C. and McMahon-Pratt, D. 1988. Purification and characterization of an 80 kilodalton membrane protein from *Leishmania donovani*. **Infect. Immun.** **56**:2385-2391.
  42. Pan, A. and McMahon-Pratt, D. 1989. Amastigote and epimastigote stage specific components of *Trypanosoma cruzi* characterized using monoclonal antibodies: Purification and molecular characterization of an 83kDa amastigote protein. **J. Immunol.** **143**:1001-1008.
  43. de C.S. Lopes, A.H. and McMahon-Pratt, D. 1989. Monoclonal antibodies specific for the genus *Endotrypanum*. **J. Protozool.** **36**:354-361.
  44. Ismach, R., Cianci, C.M.L., Caulfield, J.P., Langer, P.J. and McMahon-Pratt, D. 1989. Flagellar membrane and paraxial rod proteins of *Leishmania*: Characterization employing monoclonal antibodies. **J. Protozool.** **36**:615-619.
  45. Warburg, A., Tesh, R.B. and McMahon-Pratt, D. 1989. Studies on the attachment of *Leishmania* flagella to sand fly midgut epithelium. **J. Protozool.** **36**:611-615.
  46. Mimori, T., Grimaldi, Jr., G., Kreutzer, R.D., Gomez, E.A., McMahon-Pratt, D., Tesh, R.B., and Hashiguchi, Y. 1989. Identification, using isoenzyme electrophoresis and monoclonal antibodies, of *Leishmania* isolated from humans and wild animals of Ecuador. **Am. J. Trop. Med. Hyg.** **40**:154-158.
  47. Eperon, S. and McMahon Pratt, D. 1989. I. Extracellular cultivation and morphological characteristics of amastigote- like forms of *Leishmania panamensis* and *L. braziliensis*. **J. Protozool.** **36**:510-518.
  48. Eperon, S. and McMahon-Pratt, D. 1989. Extracellular amastigote-like forms of *Leishmania panamensis* and *L. braziliensis*. II. Stage- and species-specific monoclonal antibodies. **J. Protozool.** **36**:510-518.
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  51. White, A.C. and McMahon-Pratt, D. 1990. Prophylatic immunization against experimental *Leishmania donovani* infection by use of a purified protein vaccine. **J. Infect. Dis.** **161**:1313.
  52. Lohman, K., Langer, P.J. and McMahon-Pratt, D. 1990. Molecular cloning and characterization of the immunologically protective surface glycoprotein GP46/M-2 of



- Leishmania amazonensis*. **Proc. Nat'l Acad. Sci.** **87**:8393-8397.
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  60. McMahon-Pratt, D., Traub-Cseko, Y., Lohman, K., Rogers, D.D. and Beverley, S.M., 1992. Loss of the GP46/M-2 surface membrane glycoprotein gene family in the *Leishmania braziliensis* complex. **Mol. Biochem. Parasitol.** **50**:151-160.
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  63. Traub-Cseko, Y., Duboise, M. and McMahon-Pratt. 1993. Identification of two distinct cysteine proteinase genes of *Leishmania pifanoi* axenic amastigotes using PCR. **Mol. Biochem. Parasitol.** **57**:101-115.
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- Recombinant vaccinia viruses expressing GP46/M-2 protect against *Leishmania* infection. **Infect. Immun.** **61**:3351-3359.
65. Traub-Cseko, Y.M., Almeida, R.W., Boukai, L.K., Costa-Pinto, D., Duboise, S.M., and McMahon-Pratt, D. 1994. Cysteine proteinases of *Leishmania*. **J. Brazilian Assoc. Adv. Sci.** **45**:339-342.
  66. Duboise, S.M., Vannier-Santos, M.A., Costa-Pinto, D., Rivas, L., Pan, A.A., Traub-Cseko, Y., de Souza, W. and McMahon-Pratt, D. 1994. The biosynthesis, processing and immunolocalization of *Leishmania pifanoi* cysteine proteinases. **Mol. Biochem. Parasitol.** **68**:119-132.
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  68. Soong, L., Duboise, S.M., Kima, P., and McMahon-Pratt, D. 1995. *Leishmania pifanoi* amastigote antigens protect mice against cutaneous leishmaniasis. **Infect. Immun.** **63**:3559-3566.
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