

Wake Forest University School of Medicine

Curriculum Vitae

NAME: Joseph Thomas O'Flaherty

CURRENT ACADEMIC TITLE: Professor of Medicine

ADDRESS:

BUSINESS: Section on Infectious Diseases
Department of Internal Medicine
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EDUCATION:

1969 Temple University
Philadelphia, Pennsylvania
Phi Beta Kappa
B.A.

1972 Temple Medical School
Philadelphia, Pennsylvania
Alpha Omega Alpha
M.D.

POSTDOCTORAL TRAINING:

1972-1973 Intern
Cornell University New York Hospital
New York, New York

1973-1974 Resident
Cornell University New York Hospital
New York, New York

1974-1976 Clinical Hematology Fellow
Department of Medicine
University of Minnesota

Minneapolis, Minnesota
Research Director: Dr. Harry S. Jacob

1976-1979

NIH Research Fellow
Department of Immunopathology
University of Connecticut
Farmington, Connecticut
Research Director: Dr. Peter A. Ward
Title: Lung Regulation of Neutrophils

UNIFORMED SERVICE:

1960-1968

United States Marine Reserves
Corporal

PROFESSIONAL LICENSURE:

1972-1974
1974-1976
1975-1976
1976-1977
1981-

New York
Minnesota
Wisconsin
Connecticut
North Carolina

SPECIALTY CERTIFICATION:

1975
1976

American Board of Internal Medicine
American Board of Hematology

EMPLOYMENT:

Academic Experience:

March 1979

Visiting Investigator and Research Associate

Sept. 1979

Scripps Clinic and Research Foundation
La Jolla, California

1979-1982

Assistant Professor of Medicine
Section on Infectious Diseases
Department of Internal Medicine
Bowman Gray School of Medicine

	Winston-Salem, North Carolina
1982-1987	Associate Professor of Medicine Section on Infectious Diseases Department of Internal Medicine Bowman Gray School of Medicine Winston-Salem, North Carolina
1987-Present	Professor of Internal Medicine Section on Infectious Diseases Department of Internal Medicine Wake Forest University School of Medicine Winston-Salem, North Carolina

OTHER PROFESSIONAL APPOINTMENTS AND INSTITUTIONAL SERVICE:

NIH STUDY SECTIONS:

1982-88	Permanent Member Bacteriology and Mycology II Study Section National Institute of Allergy and Immunology Consultant for Pathology A Study Section of the National Institute of Heart, Lung, and Blood
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EDITORIAL WORK:

Consulting editor:	Journal of Clinical Investigation Biochemical and Biophysical Acta Laboratory Investigation American Journal of Pathology Immunopharmacology Journal of Immunology
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SPECIAL COMMITTEE WORK:

Biosafety Committee
Bowman Gray School of Medicine

PROFESSIONAL MEMBERSHIPS:

1976	American Society for Hematology
1981	North Carolina Thoracic Society

1981	North Carolina Medical Society
1983	Organizing Member of International Committee on Platelet - Activating Factor and Other Bioactive Lipids
2001	Organizing Member of International Committee on Platelet - Activating Factor and Other Bioactive Lipids

HONORS AND AWARDS:

1983-1987	NIH Study Section permanent member
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GRANTS:

CURRENT

1 RO1 GM61754 (O'Flaherty)	3/1/02-2/28/06	55% effort
NIH, NIGMS	\$225,000	
5-oxoETE and mechanisms of eosinophil allergic responses		

This proposal examines the intracellular movements of various protein kinase c isoforms as a function of intracellular arachidonic acid with the view that the stimulus-induced release of arachidonic acid functions to regulate the translocation of PKC isoforms to various membranes.

R01 CA85833 (Wykle)	04/01/01-03/31/05	10% effort
NIH, NCI	\$157,500	
Ether-linked lipids and signaling in breast tumor cells		

BIBLIOGRAPHY:

CHAPTERS IN BOOKS:

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McCall CE, Bass DA, Thomas MJ, O'Flaherty JT, DeChatelet LR. Mechanism of hexose transport in human polymorphonuclear leukocytes. In: Rossi F, Patriarca P, eds. Biochemistry and function of phagocytes. New York: Plenum, 1982:539-547.

O'Flaherty JT. Lipid mediators of acute allergic and inflammatory reactions. In: Lynn W, ed. Inflammatory cells and lung disease. Boca Raton, FL: CRC Press, 1983:1-27.

Stimler NP, Gerard C, O'Flaherty JT. Contraction of human lung tissues by platelet activating factor (AAGPC). In: Benveniste J, Arnoux B, eds. Platelet-activating factor and structurally related ether-lipids. Amsterdam, NY: Elsevier Science, 1983:195-204. [Inserm symposium, no. 23.]

Wykle RL, Chilton FH, Mueller HW, Swendsen CL, O'Flaherty JT. Metabolism of platelet activating factor in neutrophils and relationships to arachidonate. In: Benveniste J, Arnoux B, eds. Platelet-activating factor and structurally related ether-lipids. Amsterdam, NY: Elsevier Science, 1983. [Inserm symposium, no. 23.]

O'Flaherty JT, Nishihira J. Interactions of platelet activating factor with other lipid mediator systems in neutrophils. In: New Horizons in Platelet Activating Factor Research. CM Winslow, ML Lee, Eds, John Wiley and Sons, Ltd, London 1987;131-136.

O'Flaherty JT. Platelet-activating factor: mechanisms of cellular activation. In: platelet activating factor and related lipid mediators. F Snyder, ed, Plenum Publishing Co., New York, 1987;283-298.

O'Flaherty JT, Wykle RL. Metabolic origin and fate of platelet-activating factor. In: PAF, platelets, and asthma. Schmitz-Schumann M, Mena G, Page CP, eds. Birkhauser Verlag Basel, Switzerland, 1987;54-66.

O'Flaherty JT. Biochemical interactions of platelet-activating factor with arachidonic acid. In: Prostaglandins: Biology and chemistry of prostaglandins and related eicosanoids, Curtis-Prior PB, ed, Churchill Livingstone 1988.

O'Flaherty JT. Platelet-activating interactions with polymorphonuclear neutrophils. In: O'Flaherty JT, Ramwell PW, editors. Platelet-Activating Factor Antagonists: New Developments for Clinical Applications. Woodlands, Texas: Portfolio Publishing Co., 1989: 31-46.

O'Flaherty JT: Polymorphonuclear neutrophil responses to and processing of platelet activating factor. In: Shukla SD, ed. Platelet activating factor receptor: signal mechanisms and molecular biology. Boca Raton: CRC Press, 1993:61-77.

McCall CE, O'Flaherty JT: Platelet-activating factor and lung. In: Phan SH, Thrall RS, eds. Pulmonary fibrosis. New York: Marcel Dekker, 1995:675-713.

O'Flaherty JT, Kuroki M, Daniel LW, Wykle RL, Nixon AB, Sozzani S: The targeting of leukocytes by 5-oxo-eicosanoids. In: Vanderhoek JY, ed. Frontiers in bioactive lipids. New York: Plenum Press, 1996:149-155.

JOURNAL ARTICLES:

O'Flaherty JT, Craddock PR, Jacob HS. Mechanism of anti-complementary activity of corticosteroids in vivo: Possible relevance in endotoxin shock. Proc Soc Exp Biol Med 1977;154:206-209.

O'Flaherty JT, Craddock PR, Jacob HS. Effect of intravascular complement activation on granulocyte adhesiveness and distribution. Blood 1978;51:731-739.

Bowers TK, O'Flaherty JT, Simmons RL, Jacob HS. Post-surgical granulocyte dysfunction. J Lab Clin Med 1977;90:720-727.

O'Flaherty JT, Showell HJ, Ward PA. Neutropenia induced by systemic infusion of chemotactic factors. J Immunol 1977;118:1586-1589.

O'Flaherty JT, Kreutzer DL, Ward PA. Neutrophil aggregation and swelling induced by chemotactic agents. J Immunol 1977;119:232-239.

O'Flaherty JT, Showell HJ, Ward PA. Influence of extracellular Ca²⁺ and Mg²⁺ on chemotactic factor induced neutrophil aggregation. Inflammation 1977;2:265-276.

O'Flaherty JT, Kreutzer DL, Ward PA. The influence of chemotactic factors on neutrophil adhesiveness. Inflammation 1978;3:37-48.

O'Flaherty JT, Kreutzer DL, Showell HJ, Ward PA. Influence of inhibitors of cellular function on chemotactic factor induced neutrophil aggregation. J Immunol 1977;119:1751-1756.

Kreutzer DL, O'Flaherty JT, Orr W, Showell HJ, Ward PA, Becker EL. Quantitative comparison of various biological responses of neutrophils to different active and inactive chemotactic factors. Immunopharmacology 1978;1:39-47.

O'Flaherty JT, Ward PA. Chemotactic factors and the neutrophil. Semin Hematol 1979;16:163-174.

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O'Flaherty JT, Showell HJ, Kreutzer DL, Ward PA, Becker E. Inhibition of in vitro and in vivo neutrophil responses to chemotactic factors by a competitive antagonist. J Immunol 1978;120:1326-1332.

O'Flaherty JT, Ward PA. Leukocyte aggregation induced by chemotactic factors: a review. Inflammation 1978;3:177-194.

O'Flaherty JT, Showell HJ, Ward PA. Influence of calcium, magnesium, lanthanum, and A23187 on the aggregation of polymorphonuclear neutrophils. Immunol Comm 1978;7:495-502.

O'Flaherty JT, Showell HJ, Becker EL, Ward PA. Substances which aggregate neutrophils: mechanism of action. Am J Pathol 1978;92:155-166.

O'Flaherty JT, Kreutzer DL, Showell HJ, Becker EL, Ward PA. Desensitization of the neutrophil aggregation response to chemotactic factors. *Am J Pathol* 1978;93: 693-705.

O'Flaherty JT, Showell HJ, Becker EL, Ward PA. Neutrophil aggregation: Effect of the time and sequence of addition of calcium, magnesium, and chemotactic factor. *J Reticuloendothel Soc* 1979;25:29-38.

O'Flaherty JT, Kreutzer DL, Ward PA. Effect of cytochalasin B on human neutrophil aggregation. *Exp Cell Res* 1979;120:31-37.

O'Flaherty JT, Kreutzer DL, Showell HJ, Vitkauskas G, Becker EL, Ward PA. Selective neutrophil desensitization to chemotactic factors. *J Cell Biol* 1979;80:564-572.

O'Flaherty JT, Kreutzer DL, Ward PA. Effect of prostaglandins E₁, E₂, and F₂□ on neutrophil aggregation. *Prostaglandins* 1979;17:201-210.

O'Flaherty JT, Showell HJ, Becker EL, Ward PA. Arachidonic acid aggregates neutrophils. *Inflammation* 1979;3:431-436.

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O'Flaherty JT, Showell HJ, Becker EL, Ward PA. Role of arachidonic acid derivatives in neutrophil aggregation: an hypothesis. *Prostaglandins* 1979;17:915-927.

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Thrall RS, Phan SH, Showell HJ, Williams DJ, O'Flaherty JT, Ward PA. Membrane protein alterations in the neutrophil in response to chemotactic factors. *Mol Immunol* 1980;17:181-190.

O'Flaherty JT. Effect of calcium, magnesium, and cytochalasin B on arachidonic acid-induced neutrophil aggregation. *Inflammation* 1980;4:45-53.

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O'Flaherty JT, Cousart S, Lineberger AS, Bond E, Bass DA, DeChatelet LR, Leake E, McCall CE. Phorbol myristate acetate: in vivo effects upon neutrophils, platelets, and lung. *Am J Pathol* 1980;101:79-92.

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Bass DA, O'Flaherty JT, Szejda P, DeChatelet LR, McCall CE. Role of arachidonic acid in stimulation of hexose transport by human polymorphonuclear leukocytes. *Proc Natl Acad Sci USA* 1980;77:5125-5129.

O'Flaherty JT, Wykle RL, Miller CH, Lewis JC, Waite M, Bass DA, McCall CE, DeChatelet LR. 1-O-alkyl-sn-glyceryl-3-phosphorylcholines: a novel class of neutrophil stimulants. *Am J Pathol* 1981;103:70-79.

O'Flaherty JT, Cousart S, Swendsen CL, DeChatelet LR, Bass DA, Love SH, McCall CE. Role of Ca^{2+} and Mg^{2+} in neutrophil hexose transport. *Biochim Biophys Acta* 1981;640:223-230.

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O'Flaherty JT, Lees CJ, Miller CH, McCall CE, Lewis JC, Love SH, Wykle RL. Selective desensitization of neutrophils: further studies with 1-O-alkyl-sn-glycero-3-phosphocholine analogues. *J Immunol* 1981;127:731-737.

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McCall CE, Bass DA, Thomas M, O'Flaherty JT, DeChatelet LR. Mechanism of hexose transport in human polymorphonuclear leukocytes. *Adv Exp Med Biol* 1982;141:539-547.

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O'Flaherty JT, Thomas MJ, Hammett MJ, Carroll C, McCall CE, Wykle RL. 5-L-hydroxy-6,8,11-14-eicosatetraenoate potentiates the human neutrophil degranulating action of platelet-activating factor. *Biochem Biophys Res Commun* 1983;111:1-7.

Lewis JC, O'Flaherty JT, McCall CE, Wykle RL, Bond MG. Platelet-activating factor effects on pulmonary ultrastructure in rabbits. *Exp Mol Pathol* 1983;38:100-108.

McCall CE, Taylor RG, Cousart SL, Woodruff RD, Lewis JC, O'Flaherty JT. Pulmonary injury induced by phorbol myristate acetate following intravenous administrations in rabbits: acute respiratory distress followed by pulmonary interstitial pneumonitis and pulmonary fibrosis. *Am J Pathol* 1983;111:258-262.

O'Flaherty JT, Salzer WL, Cousart S, McCall CE, Piantadosi C, Surles JR, Hammett MJ, Wykle RL. Platelet-activating factor and analogues: comparative studies with human neutrophils and rabbit platelets. *Res Commun Chem Pathol Pharmacol* 1983;39:291-309.

Mueller HW, O'Flaherty JT, Wykle RL. Biosynthesis of platelet activating factor in rabbit polymorphonuclear neutrophils. *J Biol Chem* 1983;258:6213-6218.

Chilton FH, O'Flaherty JT, Ellis JM, Swendsen CL, Wykle RL. Metabolic fate of platelet-activating factor in neutrophils. *J Biol Chem* 1983;258:6357-6361.

Swendsen CL, Ellis JM, Chilton FH, O'Flaherty JT, Wykle RL. 1-0-alkyl-2-acyl-sn-glycero-3-phosphocholine: a novel source of arachidonic acid in neutrophils stimulated by the calcium ionophore A23187. *Biochem Biophys Res Commun* 1983;113:72-79.

Chilton FH, O'Flaherty JT, Ellis JM, Swendsen CL, Wykle RL. Selective acylation of lyso platelet activity factor by arachidonate in human neutrophils. *J Biol Chem* 1983;258:7268-7271.

O'Flaherty JT, Thomas MJ, McCall CE, Wykle RL. Potentiating actions of hydroxyeicosatetraenoates on human neutrophil degranulation responses to leukotriene B₄ and phorbol myristate acetate. *Res Commun Chem Pathol Pharmacol* 1983;40:475-487.

Stimler NP, O'Flaherty JT. Spasmogenic properties of platelet-activating factor: evidence for a direct mechanism in the contractile response of pulmonary tissues. *Am J Pathol* 1983;113:75-84.

O'Flaherty JT, Wykle RL. Mediators of anaphylaxis. *Clin Lab Med* 1983;3:619-643.

O'Flaherty JT, Wykle RL. Biology and biochemistry of platelet activating factor. *Clin Rev Allergy* 1983;1:353-367.

O'Flaherty JT, Wykle RL, Thomas MJ, McCall CE. Neutrophil degranulation responses to combinations of arachidonate metabolites and platelet activating factor. *Res Commun Chem Pathol Pharmacol* 1984;43:3-23.

Mueller HW, O'Flaherty JT, Wykle RL. The molecular species distribution of platelet activating factor synthesized by rabbit and human neutrophils. *J Biol Chem* 1984;259:14554-14559.

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McCall C, Schmitt J, Cousart S, O'Flaherty J, Bass D, Wykle R. Stimulation of hexose transport by human polymorphonuclear leukocytes: a possible role for protein kinase C. *Biochem Biophys Res Commun* 1985;126:450-456.

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Nishihira J, O'Flaherty JT. Phorbol myristate acetate receptors in human polymorphonuclear neutrophils. *J Immunol* 1985;135:3439-3447.

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