

**IRVIN M. MODLIN,
M.D., Ph.D.,
F.R.C.S. (Eng),
F.R.C.S. (Ed.), F.C.S. (SA),
M.D. (Hon Causa, Gothenberg),
MA (Hon Causa, Yale)
Professor, Department of Surgery
Director, Gastric Surgical Pathobiology Research Group
Yale University School of Medicine**

Business Address

Department of Surgery
Yale University School of Medicine
P.O. Box 208062
New Haven, Connecticut 06520-8062
Phone: (203) 937-4785
FAX: (203) 937-4783

Education

Rathgar Preparatory School Dublin, Eire	1953-1954
Moorland School, Leeds, England	1954-1956
Keble School, London, England	1956-1958
South African College, Cape Town, South Africa	1958-1963
Medical School, University of Cape Town	1963-1968

Military Service

Army Medical Corps	1970-1971
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Degrees

M.B., Ch.B. Cum Laude, Cape Town	1968
F.C.S. (South Africa)	1975
F.R.C.S. (Edinburgh)	1975
F.A.C.S.	1986
M.A. (Hon Causa) Yale	1987
Ph.D., Cape Town	1989
M.D. (Hon Causa) Goteborg, Sweden	1991
F.R.C.S. (England)	1998

Licenses

California License	1978
New York License	1980
Connecticut License	1984

Non-Academic Awards:

“Grand Global Award” for craftsmanship - *A History of Gastroenterology at the Millennium*
2001

Academic Awards:

Undergraduate

University of Cape Town Entrance Scholarship	1963
University Medal For Physiology	1964
University Medal For Medicine	1966
University Medal For Chemical Pathology	1966
South African Society of Anaesthetists Medal	1967
Urology Prize	1967
Aaron Behrman Scholarship For	
The Best Student of The Year	1967
Dowie Dunn Memorial Prize For Paediatrics	1968
University Medal For Surgery	1968
Stabler Prize The Best Graduating Student In Surgery	1968
Medical School, University of Cape Town - Valedictorian	1963-1968

Postgraduate

University Gold Medal-Most Distinguished Graduate In Medicine	1968
The University of Cape Town Post-graduate Scholarship In Medicine	1968
Degree Cum Laude and With Distinction In The Final Professional Examination	1968
F.R.C.S. (Edinburgh) G.B. Ong Gold Medal - Most Distinguished Candidate	1975
F.C.S. (South Africa) Gold Medal - Most Distinguished Candidate	1975
South African Medical Research Council Overseas Scholarship	1976
Cecil J. Adams Overseas Travelling Scholarship (declined)	
Wellcome Foundation Travelling Scholarship to Lausanne	1977
Wellcome Foundation Travelling Scholarship to London	1978
Yale - E. Storer Teaching Award	1985
Brigham Hospital - Harvard Medical School Eisenberg Memorial Lecture	1988
Fulbright Scholarship	1989
South African Gastroenterology Society - Travelling Professor	1989
Yale - Surgical Resident, Teaching Award	1992
British Society of Gastroenterology - State-of-the-Art Lecturer	1993
I. N. Marks Memorial Lecture. South African Gastroenterology Society	1994
Polya Memorial Lecture.Semmelweis University	1994
Royal College of Surgeons-England-Arris and Gale Lecturer	1995
Theodor Kocher Memorial Lecture.Swiss Surgical Society	1996
President Connecticut Society of Surgeons	1996
Japanese Society of Gastrointestinal Surgery - State-of-the-Art Lecturer	1997
Fulton Society Lecture	1997
Prout Society Lecture	1997
Royal College of Surgeons of England, Hunterian Professorship	1998
The Beaumont Lecture	1999
John Callum Memorial Oration	1999
Keynote address: Minimally Invasive Endoscopic Society, Heidelberg, Germany	2000
Visiting Professor St. Louis University	2000
Gastric Carcinoid Molecular Biology, Nordic Endocrine Society Meeting, Iceland	2001
Controversies, Problems, and Techniques in Surgery Symposium	2001
Invited Speaker International Pancreatic Meeting, Heidelberg	2001
Keynote address Indian Hepatobiliary Society	2002
James the IV Oration, Edinburgh	2002
External Surgical Assessor, University of Oman	2002
Yale Chief Resident Surgical Teaching Award	2003
Perr Dubb Oration, Gotheborg	2003

Examining Boards

Examiner, Royal College of Surgeons, Edinburgh	1985-2003
Examiner University of Oman, Dept Surgery	2002-to date

Membership In Professional Societies

Royal College of Surgeons of Edinburgh	1975
South African College of Surgeons	1975
Association of Academic Surgeons	1978
American Gastroenterology Association	1978
Society of University Surgeons	1980
Royal Society of Medicine of England	1980
New York Academy of Sciences	1980
American Federation for Clinical Research (Eastern Section)	1980
The American Society for Endocrine Surgeons	1980
Society for Surgery of the Alimentary Tract	1980
Endocrine Society	1980
International Association of Endocrine Surgeons	1980
International Society of Surgery	1980

Collegium Internationale Chirurgicae Digestive	1980	
American Association for the Advancement of Science	1980	
Society for Experimental Biology and Medicine	1980	
New York Gastroenterology Society	1981	
American Society for Gastrointestinal Endoscopy		1981
Gastrointestinal Research Group	1983	
American Physiological Society	1984	
Connecticut Society of American Board Surgeons	1984	
V.A. Surgical Association	1984	
Timothy Dwight College - Yale	1984	
Eastern Gut Club	1985	
Society of American Gastrointestinal Endocrine Surgeons	1985	
Sigma Xi, Scientific Research Society	1986	
Beaumont Club	1986	
American College of Surgeons	1986	
International Gastro-Surgical Club	1987	
Athenaeum Club, London	1992	
Prout Club, London	1994	
Royal College of Surgeons of England	1998	

Responsibilities in Professional Societies

Administration

Chairman, Surgical Section of the Advisory Board, International Gastro-Surgical Club	1990
President Connecticut Society of American Board Surgeons	1991
Secretary, Beaumont Club	1993

Publication

Program Committee, Association for Academic Surgery	1980-1983
Program Committee, Society of University Surgeons	1980-1983
Organizing Committee, Surgical Gut Hormone Society	1981-1989
Publication Committee, Association of VA Surgeons	1985-1989
Program Chairman, Connecticut Board of Surgeons	1988-1990

Editorial Boards

Editorial Board, Journal of Regulatory Peptides	1982-
Editorial Board, Journal of Clinical Gastroenterology	1984-
U.S. Editor, Surgical Research Communications	1985-
Associate Editor, Hepato-Gastroenterology	1991-
Co-Editor, Frontiers of Gastrointestinal Research	1993-
Editor, Current Opinion in General Surgery	1993-
Editorial Board, Digestive Surgery	1995-
Editorial Board, Digestion	1995-
Editorial Board, Journal of Medical Biography	1996-

Appointments

Current

Professor of Surgery Department of Surgery Yale University School of Medicine	
Director, Yale Regional Residency Program	1988-1992
Director, G.I. Surgical Pathobiology Research Unit	1984-
Director, G.I. Endoscopic Surgery	1988-
Medical School Admission Committee	1990-1994
Medical School Student Thesis Committee	1992-

Recent

	Professor and Vice Chairman Yale University School of Medicine, Department of Surgery	1987-1991	
1989	Associate Professor and Vice Chairman, Yale University School of Medicine, Department of Surgery		1984-
	Chairman, Dean's Executive Committee for VA Affairs	1984-1988	
	Director, G.I. Surgical Research Group	1984-	
	Director, Surgical Endoscopy Division	1984-	
	Chief of Surgery, Veterans Administration Medical Center, West Haven, Connecticut	1984-1988	

Previous

	Assistant Professor, Downstate Medical Center, Brooklyn, New York	1979-1983	
	Assistant Professor of Surgery, UCLA	1977-1979	
	Visiting Scientist UCLA, Center for Ulcer Research and Education (CURE)		

Research Review

	Member, President's Advisory Committee on Research Allocation - SUNY Dean's Committee, Yale-West Haven VA Medical Center	1980-1983	
1989	Yale Funds and Fellowship Committee	1985-1989	
	Yale Comprehensive Cancer Center Scholarship Committee	1990-present	1983-

Education

	Coordinator of Postgraduate Surgical Education Seminars	1981-1983	
	Associate Director, G.I. Peptide Physiology Research Laboratories	1980-1983	
	American Gastroenterology Association: Education and Training Committee	1985-1989	

Clinical Experience

	Internship, Groote Schuur Hospital Cape Town	1969	
	Military Hospital, Pretoria	1970	
	Senior House Officer, Accident Unit, St. James Hospital, Balham, London	1971	
	Registrar, Trauma Unit, Groote Schuur Hospital	1971	
	Surgical Residency, Groote Schuur Hospital	1972-1975	
	Chief Surgical Officer, Hammersmith Hospital;	1975-1977	
	Senior Surgical Registrar to Professor R.B. Welbourn and Mr. J.Spencer, Hammersmith Hospital		
	Professor Grossman and Professor J.H.Walsh, Visiting Scientist, Center for Ulcer Research and Education (CURE)	1977-1979	
	and Assistant Professor of Surgery, UCLA		
	Assistant Professor, Surgery, Department of Surgery, Downstate Medical Center, New York	1979-1983	
	Associate Professor and Vice Chairman of Surgery-Yale University	1984-1987	
	Chief of Surgery, VA Medical Center, West Haven, Connecticut		
	Professor and Vice Chairman of Surgery-Yale University School of Medicine, New Haven, Connecticut	1987-1991	
	Professor of Surgery, Director Gastrointestinal Endoscopic Surgery And Gastrointestinal Pathobiology Research Laboratory Yale University School of Medicine and the VA Medical Center, New Haven, Connecticut	1991-present	

RESEARCH ACTIVITIES**a) Scientific Research**

Current research responsibility is as Director of the Gastric Pathobiology Research Group. This is a twenty to twenty-five member group variously studying pancreatic, gastric, colonic endocrine and biochemical phenomena in the gastrointestinal system. Persons involved are surgeons,

Ph.D.'s, surgical residents, technicians and visiting scientists from different countries and institutions. The overall specific research areas are in brief as follows:

Pancreatitis:

Isolated pancreatic acini are utilized to provide a model for the study of intracellular zymogen activation. The methodology utilizes western blot techniques to identify active fragments. Immunogold electron microscopy is used to identify colocalization of enzymes in subcellular compartments.

Pepsinogen Secretion:

Isolated peptic cells are generated using elutriation centrifugation and nicodenz gradient systems. The mechanisms of exocytosis are studied with particular reference to identification of small GTP binding protein families and intracellular calcium flux. Characterization of CCK and gastrin type receptors is undertaken using peptide fragments and antagonists.

Parietal Cells:

Isolated parietal cells are studied with a view to identification of the subcellular mechanisms of secretion. This involves structural studies using confocal microscopy and biochemical cross-referencing using two dimensional gel separation of phosphorylated proteins. Specific identification of EGF and TGF α subcellular localization is the current primary goal.

Mastomys ECL Cells:

The histogenesis of the ECLoma tumor has been studied using cell culture and nude mice transfer. Western and northern blotting are used to demonstrate oncogene amplification. Secretion of tumor peptides and amines is assessed by HPLC and RIA methodology.

Colonic Physiology:

Isolated mucous membrane in Ussing chambers or isolated colon segments on a perfusion system are used to study the neuroendocrine regulation of colonic electrolyte and water flux. Specific receptor antagonists and pharmacotherapeutic probes are utilized to delineate the regulatory pathways.

Enterocyte Migration:

The question of gut wound healing is studied using migration and mitogenesis assays. Specific areas of interest reflect the expression of integrin receptors and the interaction with different matrix substructures. (laminin, collagen IV)

Intracellular pH Regulation:

The control of pH by specific related ion pumps is evaluated using isolated perfused gastric glands. This methodology involves fluorescent spectrophotometry and video enhanced isolated cell imagery. Calibration curves using Nigericin and cell loading with BCECF are components of the system.

b) Collaborative Research Projects

ECL Cell Histogenesis - Drs. Hakan Ahlman, Ola Nilsson, Annica Dahlstrom
Goteborg, Sweden

Neuroendocrine Regulation of Colonic Mucosal Function - Dr. Torgny Svenberg
Karolinska, Stockholm, Sweden

Cell Lineage Evolution in the Stomach - Prof. Nicholas Wright
British Imperial Cancer Research Institute and Royal Postgraduate Hospital Medical
School, Hammersmith Hospital, London, England

Characterization of Gastrin and Somatostatin receptors on ECL Cells
Dr. Jean-Claude Reubi, Berne, Switzerland

Expression and Regulation of TGF α Secretion - Prof. Robert Coffey
Vanderbilt University, Tennessee, U.S.A.

Identification of H₃ Receptors on Gut Neuroendocrine Cells - Prof. J.C. Schwartz
Inserm, Paris.

Apoptosis in Carcinoid Tumors - Dr. Steven Moss
Brown University, Rhode Island, U.S.A.

GATA proteins in Carcinoids - Dr. Rod Dimaline
University of Liverpool, Liverpool, U.K.

Biochemistry of Parietal Cell Function - Dr. Catherine Chew
Morehouse University, Atlanta, Georgia, U.S.A.

Helicobacter pylori Lipopolysaccharide - Dr. Marty Blaser
Vanderbilt University, Tennessee, U.S.A.

Helicobacter pylori and ulceration - Dr. James Fox
MIT, Boston

c) Clinical Investigation

1. Minimal invasive surgery
2. Carcinoid tumors
3. Pancreatitis and neuroendocrine tumors of the pancreas
4. Peptic ulcer disease

d) History of Medicine

- * History of Gastric Acid - From Prout to the Proton Pump
- * History of Pepsinogen Discovery - A Short Digest of Pepsin - The Role of Langley and Schwann
- * The Development of Therapeutic Vagotomy - Pavlov, Dragstedt and Colleagues
- * The Relationship of Cushing and Kocher - The Beginnings of Neurosurgery
- * Ruggiero Oddi - The Paradox of the Sphincter and the Man
- * Reginald Fitz - The First Observations of Pancreatitis
- * Pavlov's first visit to the USA
- * Dragstedt - The First American Scientist Surgeon
- * L'acide: The French Connection - Beaumont to Latarjet
- * The Surgical Legacy of Arris and Gale

RESEARCH FUNDING

Investigator	Grant Title	Agency	Amount	Dates
I.M. Modlin	Secretagogue Regulation of Protein Phosphorylation in Parietal Cells	NIH	\$418,057	5/89-4/93 Complete
J.R. Goldenring (IMM Co-Invest.)	Cyclic AMP-Dependent Mediation of Parietal Cell Function	NIH	\$371,912	4/91-3/96 Complete
I.M. Modlin	Pathophysiology of an Endocrine Tumor - A Peptic Ulcer Model	VA	\$490,000	10/88-9/96 Complete
G. Ballantyne (IMM Co-Invest.)	Release of Peptide Tyrosine and Enteroglucagon from the colon	VA	\$141,415	12/89-12/92 Complete
M. Basson (IMM Co-Invest.)	Growth Factor - Matrix Interaction in the Regulation of Enterocyte Migration	Yale Univ.	\$7,000	12/90-11/91 Complete
L. Tang (IMM Co-Invest.)	Characterization of a Tubulovesicle-Associated 23 kDa GTP-Binding Protein from Rabbit Parietal Cell	Yale Univ.	\$9,000	12/90-11/91 Complete

M. Basson (IMM Co-Invest.)	Control mechanisms for mammalian pepsinogen secretion	NIH	\$35,300	7/91-6/92 Complete
R. Powers (IMM Co-Invest.)	Altered acinar cell function during acute pancreatitis	NIH	\$186,032	8/88-7/93 Complete
I.M. Modlin	Research Training in Surgical Gastroenterology	NIH	\$705,190	7/91-6/96 Complete
F. Gorelick (IMM Co-Invest.)	Intracellular Activation of Pancreatic Zymogens	NIH	\$838,846	7/91-6/96 Complete
C. Soroka (IMM Co-invest.)	The cultured parietal cell: a model for membrane-cytoskeletal interactions	VA	\$288,900	4/92-3/95 Complete
S. Waisbren (IMM Co-Invest.)	Intracellular pH regulation in perfused gastric glands	NIH	\$29,500	7/91-6/92 Complete
I.M. Modlin	Pathophysiology of an Endocrine Tumor – Gastric ECLoma Model	VA	\$450,000	9/96-8/00 Complete
J. Murren (IMM Co-Invest)	Isotopic Therapy of SST expressing Neuroendocrine Tumors	NCI	\$275,000	2/01-3/03 Active
I.M. Modlin	Molecular Strategies for Gastric Carcinoid Surgery	NIH	\$650,000	8/03-7/05 Active
I.M. Modlin	CTGF: a clinical determinant of ileal carcinoid fibrosis	NIH	Under Review	7/04-06/07
I.M. Modlin	TGF β and ileal carcinoid tumor growth	NIH	Under Review	7/04-06/07
J. Yang (IMM Collaborator)	Novel Activator for Complement-mediated Cytolysis on tumor cells	ACS	Under Review	7/04-06/08

RESEARCH FELLOWS AND POSTDOCTORAL CANDIDATES

Gary Fratesi	1984	Southwestern Univ., Phillipines
Misha Tyshkov	1984	Sverdlovsk Medical School, Moscow
Margaret Oddsdottir	1985	University of Iceland Medical School
Jonathen Lewis	1985	University of Witswatersrand, RSA
Harold Schaefer	1985	Columbia University
Anton Bilchik	1986	University of Witswatersrand
Paula Rackoff	1986	Yale University
James Goldenring	1987	Yale University
Marc Basson	1987	Yale University
Andrea Ferrara	1988	S.U.N.Y.
Walter Longo	1989	New York Medical College
Paul Savoca	1989	Downstate Medical College, New York
Ola Nilsson	1989	University of Goteborg, Sweden
Steven Leach	1989	Emory University
David Armstrong	1989	University of Edinburgh
Steven Waisbren	1989	University of Minnesota
Frank Fleming	1989	University of Texas
Barry Pernikoff	1989	Hershey College of Medicine
Laura Tang	1990	Emory University
Carol Soroka	1990	S.U.N.Y.
Masato Funasaka	1990	Kobe University, Japan
Yasuhiro Tsunoda	1990	Hakkaido University, Japan
Scott Flynt	1990	University of Florida
Heidi Krentz	1990	Rutgers University
Ravin Kumar	1990	Univ. of Peradeniya, Sri Lanka
Steven Rush	1991	University of Texas
S. Aubrey Stoch	1991	University of Cape Town, South Africa
Robert Carangelo	1991	University of Conn. School of Medicine
Gary N. Mann	1992	University of the Witwatersrand, S.Africa
Jackie Quinn	1992	University of California
Forest Hume	1992	University of Louisville
Susan Sgambati	1993	Medical College of New York
Carina Biggs	1993	University of Florida, Gainesville
Gary Lawton	1993	University of Mass. Medical School
Dennis Begos	1993	Medical College of New York

RESEARCH FELLOWS AND POSTDOCTORAL CANDIDATES (cont.)

Kun Miu	1993	University of Shanghai
Mark Kidd	1994	University of Cape Town, RSA
Andras Sandor	1994	University of Budapest
Christopher Gilligan	1994	Yale University
Eileen Luque	1994	SUNY, Syracuse
Tahira Mahmoud	1995	University of United Arab Emirates
Jason Efstathiou	1995	Yale University
James Borin	1995	Yale University
Kerem H. Bortecen	1995	Istanbul University
Stefan Schmid	1996	Inselspital, Bern
Tong Zhang	1997	University of Beijing
Klaus Radebold	1997	University of Mainz, Germany
Jorge Laueffer	1997	University of Berne, Switzerland
Masaharu Odho	1997	Kirumei Univ, Fukoyoku
Yoshi Sakawa	1998	Keio University, Tokyo
Toshi Osashi	1998	Osaka University
Jian Fahardi	1999	University of Bern Switzerland
Kevin Lye	2002	Yale University
Michael Shapiro	2004	Yale University

THESIS OPPONENT

1. Christer Dahlstrand, MD, PhD - The Vagal Nerves and Peptides in the Control of Extrahepatic Biliary Motility, 1990 Goteborg, Sweden
2. Arvind Chaudhry, M.B.B.S. - Expression of Growth regulatory Factors in Neuroendocrine Tumors of the Digestive System, 1992 Uppsala, Sweden

THESIS SUPERVISOR

1. Richard Tierney "Peptide YY immunoreactivity in colonic polyps and carcinomas: Evidence for the Adenoma-Carcinoma Sequence" 1987, MD
2. Alex Vukasin "Regulation of Colonic Motility by PYY" 1989, MD
3. Jonathan Lewis "Signal transduction mechanisms of parietal cell secretory inhibition by Epidermal Growth Factor (EGF), Transforming Growth Factor (TGF α) and Pancreastatin" 1990, PhD
4. Anton Bilchik "Role of cholecystokinin in control of growth and regeneration of the pancreas" 1990, PhD
5. Valerie Asher "Phosphorylation of type II regulatory subunit in stimulated parietal cells" 1990, MD

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| 6. Marc Basson | "Integrin Receptor - Matrix Interaction"
1992, PhD |
| 7. Steven Waisbren | "Gastric Parietal Cell pH _i Regulation"
1993, PhD |
| 8. S. Aubrey Stoch | "TGF β Modulation of Mucosal Repair"
1993, MD |
| 9. Janice Ogden | "Intracellular Enzyme Activation in Acute Pancreatitis"
1993, PhD |
| 10. Steven Chough | "Calcium Modulation of the Effects of Serotonin, Carbachol, and Histamine on Rabbit Ileal Ion Transport" 1994, MD |
| 11. Christopher Gilligan | "Gastric Carcinoids: From Cell to Survival", 1995, MD |
| 12. Klaus Radebold | "Somatostatin Receptor Expression in Neuroendocrine Tumors" |
| 13. James Borin | "SSTR2 Expression in Transformed ECL cells" |
| 14. Mark Kidd | "Growth Factor Regulation of ECL cell Neoplastic Transformation". |
| 15. Michael Shapiro 2003) | CTGF regulation of carcinoid induced fibrosis |

SELECTED PRESENTATION LIST

2003:

- "The Molecular Basis of the ECL cell": Per Dubb Oration, University of Gothenburg, Sweden.
- Current Status of GERD management. German Endoscopic society, Hamburg.
- "The Evolution of Esophageal Therapy": United European Gastroenterology Weekly, Madrid, Spain.
- "From the Mucosa to the Serosa": Digestive Disease Weekly, Orlando.
- "From the Macula to the Mucosa" Royal Society of Medicine, London.
- Evolution of Pancreatic Therapy" Dartmouth Grand Rounds - Surgery

2002:

- Invited speaker, "Cancer of Esophagus and Gastric Cardia: From Gene to Cure," Amsterdam, the Netherlands
- Invited speaker, "Perspectives and reflections on integrated digestive surgery," The Future of Gastro-Entero-Hepato-Pancreatology is Bright, Amsterdam, the Netherlands
- Invited speaker, "Amsterdam and Netherlands Gastroenterology: a historical perspective," The Future of Gastro-Entero-Hepato-Pancreatology is Bright, Amsterdam, the Netherlands
- Invited speaker, "Stem cells and mucosal dynamics: Regulation, repair and neoplasia," Japanese Society of Ulcer Research
- Keynote address, Indian Hepatobiliary Society, "Surgery of chronic pancreatitis"
- James IV Oration, Edinburgh, "Molecular strategies and ¹¹¹In-labeled somatostatin analogs in defining the management of neuroendocrine tumor disease: A new paradigm for surgical management"
- External Surgical Assessor, University of Oman

2001:

- "Gastric Carcinoid Molecular Biology," Nordic Endocrine Society Meeting, Iceland

- Controversies, Problems, and Techniques in Surgery Symposium
- Invited Speaker International Pancreatic Meeting, Heidelberg “The surgery of chronic pancreatitis—A chronicle of confusion and despair?”

2000:

- Invited Speaker: “From *k-Ras* to Kagoshima,” 100-year Anniversary of the Japanese Surgical Society: Tokyo
- The Eastern Surgical Society: “Beyond Wittgenstein,” New Haven
- International Chronic Pancreatitis Symposium, Bern: “The Evolution of Chronic Pancreatitis”
- International Esophageal Meeting, Paris: “The Molecular and Historic Basis of Barrett’s Esophagus”
- International *Helicobacter pylori* Meeting, Bermuda: “From the Pump to the Helix”

1999:

- The Beaumont Lecture
- John Callum Memorial Oration

1998:

- Royal College of Surgeons of England, Hunterian Professorship
- Invited Speaker: The F. Troncale Memorial Lecture. “GERD”, New Haven
- Invited Speaker: The Dutch Gastro Society: “The Golden Age of Dutch Medicine,” Veldhoven, Holland
- Invited Speaker: British Society of Surgery, “Carcinoid Biology and Surgery,” Belfast.
- Invited Speaker: Brown University, RI: “The Gordian Conundrum”

1996

- Invited Speaker: The Theodor Kocher Memorial Lecture, Bern, Switzerland.
- Invited Speaker. Molecular Biology of Wound Healing. Japanese Gastroenterology Society, Shimoda, Japan.
- Invited Speaker: Strategies of GERD management. Mahidol University, Bangkok, Thailand.
- Invited Speaker. Gastroesophageal Reflux Disease: Back to Surgery? Bern, Switzerland.
- Invited Speaker. Consensus Workshop for Surgical Treatment of Neuroendocrine Gastroenteropancreatic Tumors. Berlin, Germany.
- Invited Speaker. The Malden Hospital Grand Rounds. “Gastrinomas & the Neuroendocrine Gut.”
- Invited Speaker. Hartford Hospital Grand Rounds. “Clinical and Therapeutic Utility of Somatostatin.”
- Invited Speaker. Medical/Surgical Grand Rounds. North Shore University Medical Center, Manhasset, NY. From Prout to the Proton Pump and The Diagnostic & Therapeutic Relevance of Somatostatin.
- Invited Speaker. Medical/Surgical Grand Rounds. Medical College of Georgia and Eisenhower Army Medical Center, Augusta, GA. Current Concepts in Acid Peptic Disease: From Prout to the Proton Pump and Clinical and Therapeutic Utility of Somatostatin.

1995

- Co-Organizer/Session Chairman. International Meeting. Current Research in Gastrointestinal Disease: The African Perspective. Cape Town, South Africa.
- Yale University, Organizer: Current Perspectives in Acid Inhibitory Therapy, New Haven, CT.
- Invited Speaker. Westchester County Medical Center Grand Rounds. “An Update on the Management of Acid Related Disorders”.
- Invited Speaker. Nassau County Medical Center Grand Rounds. “From Prout to the Proton Pump”
- Yale University, Surgical Grand Rounds. “Magister artis ingenique largitor venter” The stomach what . . . ?”
- Invited Speaker. Polya Memorial Lecture, Semmelweis University, Budapest, Hungary.
- Invited Speaker. Medical/Surgical Grand Rounds. Brookdale Hospital. Brooklyn, New York.

- Invited Speaker: The Arris and Gale Lecture: "The Pathophysiology of the Fundic Enterochromaffin-like (ECL) Cell and Gastric Carcinoid Tumors", Royal College of Surgeons, London, England.
- Invited Speaker. "The Cys 813 versus Gastrectomy-Caveat Emptor. Surgical Grand Rounds. New York Hospital-Cornell Medical Center, New York, NY
- Invited Speaker. "Somatostatin Receptor Scintigraphs (SRS) in Gastrinoma. Minneapolis, MN
- Session Chairman. "International Meeting. Five Years of Laparoscopic Cholecystectomy: A Reappraisal, Bern, Switzerland
- Invited Speaker. "International Workshop on New Trends in the management of Pancreatic Disease. The Management of Acute Pancreatitis-Who Are We Kidding?, Messina, Italy
- Invited Speaker. "Pancreatic Endocrine Tumors. MetroWest Medical Center. Framingham, MA
- Invited Speaker. "The Pathobiology of the ECL Cell. Gastrointestinal Rounds. St. Luke's-Roosevelt Hospital, New York, NY
- Invited Speaker. "Of Teleosts and Tumors. Surgical Grand Rounds. St. Luke's-Roosevelt Hospital, New York, NY
- Invited Speaker. "Updates in the Treatment of Acid Related Disorders (The Effects of Low Acid States). Milton, NY
- Invited Panelist. "Issues in Surgical Endocrinology. Controversies in Surgery Series. Farmington, CT

1994

- Invited Speaker: "Surgical Biology Club III - Dr. Lester Dragstedt: From Anaconda to Antrim, Chicago, IL
- Invited Speaker: "British Society of Gastroenterology Prout Club Meeting, Edinburgh, Scotland
- Invited Speaker: "International Meeting: "Pancreatic Diseases: New Horizons - Chronic Pancreatitis: Pre-cancerous disease? Bern, Switzerland
- Invited Speaker: "SAGES Congress - Solly Marks lecture: "The new gastric creed of the third millennium - Sun City, South Africa
- Invited Speaker: "Reunion Annuelle Du GRESZE - Experimental models of ECLomas - Paris, France
- Yale University, History of Surgery Lecture - "L'acide: Beaumont to Latarjet
- Invited Speaker: "Carcinoid Tumors - International Symposium on Pathology, Epidemiology, Clinical Aspects and Therapy - Munich, Germany

1993

- Invited Speaker: "Tissue Repair-Wound Healing Mechanisms, Therapeutic Implications - Tübingen, Germany
- Connecticut Surgery Basic Science Course, New Haven, CT - GI Endocrinology
- Memorial Medical Center, Savannah, GA - "From Prout To The Proton Pump
- Invited Speaker: "Molecular and Cell Biological Aspects of Gastroenteropancreatic Neuroendocrine Tumor Disease - Berlin, Germany
- Yale University, History of Surgery Lecture - "The Dragstedt Centenary: Wandering from Anaconda to the Antrum
- University of Texas Southwestern Medical Center, Dallas, TX - "A Tale of Two Cells
- University of Virginia, Charlottesville, VA - "Science, Somatostatin and Surgery
- SUNY Health Science Center, Brooklyn, NY - "A New Gastric Creed for the 3rd Millennium
- Frontiers in Gastroenterology Series - "Low Acid States: Are There Safety Implications
- Chairman, International Satellite Meeting "Low Acid States" - Boston, MA
- Invited State-of-the-Art Speaker - "British Society of Gastroenterology: A New Gastric Creed for the Third Millennium
- Visiting Professor:
 - Guy's Hospital - London
 - Trinity College- Dublin
 - Royal Postgraduate Medical School - London
 - University of Glasgow
 - University of Dundee
 - University of Leeds
 - Imperial Cancer Research Institute - London
- Frontiers in Gastroenterology Series - "Low Acid States: Are There Long-Term Implications, Dallas, TX
- Invited Speaker: "Molecular Mechanisms of Mucosal Healing- Antalya, Turkey
- Loma Linda University School of Medicine, Loma Linda, CA - "Pancreatic Disease, Pancreatic Fistulas and Other Gastrointestinal Fistulas
- Frontiers in Gastroenterology Series - "The Parthenon of the Pancreas: From Phlegethon to Pandora. Los Angeles, CA
- Westchester Medical Center, Westchester, NY: "Science, Surgery and Somatostatin

1992

- Booth Memorial Hospital, New York: "G.I. Hormones

- St. Raphael's Hospital, New Haven, CT: The Place of Molecular & Technical Advances in the Future of Surgery
- Sinai Hospital, Baltimore, Maryland: The Relevance of Targetted Pharmacotherapeutic Probes in Gastrointestinal Surgery
- Eilat, Israel: Israel Gastroenterology Association
- Beth Israel Medical Center, Newark, New Jersey: Treatment of Surgical Complications
- Easton Hospital, Pennsylvania: Surgical Applications of Octreotide
- Crozer Chester Medical Center, Pennsylvania: The Therapeutic Role of Octreotide in the Management of Surgical Disorders
- Hanemann University, Pennsylvania: The Therapeutic Role of Octreotide Management of Surgical Disorders
- St. Michael's Medical Center, New Jersey: Clinical and Scientific Applications of Octreotide
- Adaptation and Renewal in Gastroenterology, Interlaken, Switzerland: Adaptation and Renewal of the Gastrointestinal Surgeon to Meet the Continuous Challenge of Modern Gastroenterology
- Royal Club, Evian, France: Current Perspectives in Acute Pancreatitis
- International Gastro-Surgical Club, Padua, Italy: Medical and Surgical Management of Carcinoid Tumors

1991

- St. Barnabas Medical Center, New Jersey: New Modalities in the Treatment of Fistula
- Sir James Black Foundation, England: ECL - Parietal Cell Interactions
- Wayne State University, Detroit, Michigan - From Prout to the Proton Pump: Somatostatin and the Stomach
- London, Hanbury Hall : European Acid Suppression Workshop
- Cedar Sinai Hospital, Los Angeles, Calif.: Management of Peptic Ulcer Disease
- Cooper Hospital, Camden, New Jersey - Science, Surgery and Somatostatin
- Mt. Sinai Hospital, New York City - Surgical Applications of Sandostatin
- Long Island Jewish Medical Center, New York - Uses of Somatostatin in Surgical Patients
- University of California at Irvine, California - Pathobiology and Management of Endocrine Gut Tumors
- St. John's Episcopal Hospital, New York - Current Concepts in the Management of Peptic Ulcer
- Surgical Grand Rounds. Yale University School of Medicine - Cushing: Main Guest at the Divine Banquet of the Brayne

1990

- World Conference on Gastroenterology, Sydney, Australia: Pathophysiology of Acute Pancreatitis
- Pancreatitis Symposium, Marburg, Germany : Subcellular Activation of Pancreatic Enzyme
- London : ECL Cell Symposium
- Berlin, Germany : Experimental Ulcer Conference
- Goteborg, Sweden : Swedish Endocrine Society
- Falk Symposium, Freiburg, Germany - TGF a Secretory Regulation of Parietal Cells
- Surgical Grand Rounds. Yale University - The Semiotics of Sphincter Function
- Medical Grand Rounds. Yale University - Proton Pump Inhibition
- Swedish Surgical Society - Gastric ECLomas
- University of Lund, Sweden, - Oncogene Amplification in Gastric ECLoma Tumors
- University of Goteburg, Sweden - Neurotransmitter Regulation of Sphincter of ODDI Function

1989

- Marion Corporation : Current Status of Acid Inhibition Therapy
- Bristol-Myers Corporation : Evaluation of Gastrointestinal Biological Function
- AB Hassle Corporation : Control of ECL Cell Secretion
- University of Hong Kong : Pathobiology of Acute Pancreatitis
- University of Texas at San Antonio : From Prout to the Proton Pump
- Harvard (Brigham Hospital) Eisenberg Memorial Lecture: Pathophysiology of Gastric Secretion
- Harvard (Deaconess Hospital) 1: Pathophysiology of Somatostatin and its Analogues
- Taormina, Sicily, Italy : Pathophysiology of Bleeding in Portal Hypertension
- Rome, Italy : Surgery of Peptic Ulceration
- Florence, Italy : Mechanisms of ECL Cell Neoplasia
- Umea, Sweden : Pathobiology of the Endocrine Stomach
- Berne, Switzerland : Mechanisms of Intracellular Zymogen Activation
- Cape Town, South Africa : Surgical Management of Pancreatitis
- University of Rome - The ECL Quincunx
- University of Bern, Switzerland - The Cellular Mechanisms of Pancreatitis
- Brown University, Rhode Island - From Prout to the Proton Pump and Beyond
- University of Witwatersrand, South Africa - Pathogenesis of Pancreatitis
- University of Cape Town, South Africa - From Prout to the Proton Pump

1988

- St. Mary Hospital - Induction of Gastric Carcinoid by Irreversible H2 Receptor Blockade
- New England Surgical Society - Surgical Pancreatitis - the Effect of Receptor Blockade
- Gastro Intestinal Surgical Research Group. Yale - Netsuke as an Art Form
- Surgical Tripartite Meeting. Bristol, U.K. - Mucosal Pepsin Release during Hypoxia
- University of Goteburg, Sweden - The Adoration of the Vagi
- Nordic Endocrine Society. Sweden, - Cholecystokinin Receptor Antagonists
- Grand Rounds. Ohio State University, Columbus - Pathophysiology of Peptic Ulcer Disease
- Eisenberg Memorial Lecture. Brigham Hospital, Harvard Medical School - From Prout to the Proton Pump

1987

- San Antonio Surgical Society - Endoscopy and Early Gastric Cancer

1986

- Association of Academic Surgeons - Characteristics of Spontaneous Endocrine Tumors of Mastomys

1984

- Grand Rounds. Yale University - Of Gastrinomas and Men
- Memorial Sloan Kettering - Pathophysiology Pancreatic Polypeptide
- San Antonio - Pathophysiology of Endocrine Tumors

1983

- National Institutes of Health, Department of Surgery - Endocrine Tumors of the Gut

1982

- World Gut Hormone Symposium. Stockholm: Evidence for a Non-Gastrin pH Dependent Mechanism of Bombesin Stimulated Gastric Acid Secretion

1981

- Surgical Forum. San Francisco: Bombesin Stimulated PP Release as a Discriminator of Vagal Integrity
- World Gut Hormone Symposium. Florence, Italy: The Release of Pancreatic Polypeptide by Xenopsin

1980

- Association for Academic Surgeons. Birmingham, Alabama: The Antral Modulation of Pancreatic Polypeptide Release
- World Gut Hormone Symposium. Cambridge, England: Release of Substance P by a Meal
- World Gut Hormone Symposium. Cambridge, England: Cholinomimetic Modulation of PP Release
- World Gut Hormone Symposium. Cambridge, England: Intestinal Phase of PP Release
- Surgical Forum. Atlanta: Failure of PP Release by Pancreatic Transplants
- American Federation for Clinical Research. Washington, D.C.: Neural Modulation of Pancreatic Polypeptide Release
- Society for Surgery of the Alimentary Tract. Salt Lake City, UT: Bombesin - A Vagally Independent Releaser of Gastrin
- Society of University Surgeons. Houston, TX: Evidence for Cholinergic Dependence of PP Release by Bombesin - A Possible Application

1979

- Association of Academic Surgeons. Great Gorge, New Jersey: Food and Bombesin Release Gastrin by Different Mechanisms
- American College of Surgeons. Chicago: The Release of VIP from the Pancreas
- American Gastroenterology. New Orleans Can Combinations of Secretagogues Restore Gastric Acid Secretion After Vagotomy
- Society of University Surgeons. Salt Lake City: Evidence for the Existence of an Enteropancreatic Reflex

1978

- American Federation of Clinical Research. Carmel: Varying Effects of Endogenous and Exogenous CCK on Pancreatic Protein Secretion
- Association of Academic Surgeons. Cleveland: Control of Gastric Emptying and Peptide Release by Exogenous Motilin
- American Gastroenterology Association.: Vasoactive Intestinal Polypeptide in The Pathogenesis of Gut Ischaemia
- American Federation of Clinical Research Atlantic City,: Release of Polypeptide Hormones by Oral Water Load
- British Association of Surgeons. Sheffield,: Management and Prognosis of Seventy-Four Pheochromocytomas
- American College of Surgeons Congress: Pancreatic Endocrine Tumors

- World Gut Hormone Symposium. Oslo: Atropine Resistant CCK Like Peptide Release
- World Gut Hormone Symposium. Oslo: Effect of Motilin on Gastric Emptying

1977

- British Society of Gastroenterology : VIP: A New Component of the Autonomic Nervous System.
- British Regional Hospital Pharmaceutical Course: Adrenal Surgery.
- Royal Postgraduate Medical School surgical Course: Aspects of Colonic Angiodysplasia.
- British Surgical Research Society: Mechanisms of Motilin Release.
- European Surgical Research Society. Warsaw: Motilin Release in the Pig.

1976

- Royal Society of Medicine: Haemorrhage in Reduplications of the Duodenum.
- British Endocrine Society.: VIP Release in Intestinal Ischemia.
- University of London Surgical Endocrinology Symposium: Phaechromocytoma Management.
- British Postgraduate Medical Federation Gastroenterology Course: Multi Hormone Secreting Gut Tumors
- University of London MSc Course in Clinical Biochemistry: APUDomas of the Gut.
- Postgraduate Gastroenterology Teaching Course, St. Charles Hospital. London
- Endocrine Gut Tumors
- International Gut Hormone Symposium. Lausanne: VIP Pharmacokinetics
- British Society of Gastroenterology: VIP and Diarrhea.

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A. Clinical

- 1) Abir F, **MODLIN IM**, Kidd M, Bell R. The Surgical Treatment of Achalasia: Current Status and Controversies. Digestive Surgery (2004) (in press).
- 2) **MODLIN IM**, Murren J, Lye K, Kidd M, Argiris A, Hinoue T, Cornelius E. ¹¹¹Indium-labeled Somatostatin Analogues: A Novel Advance in the Management of Unresectable Neuroendocrine Tumors (NETs). Cancer (2004) (in press).
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- 4) **MODLIN IM**, Lye K, Kidd M. A 50-year analysis of 562 gastric carcinoids: small tumor – or larger problem? Am J Gastroenterol 2004; 99: 23-32.
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- 15) **MODLIN IM**, Tang LH. Cell and tumour biology of the gastric enterochromaffin-like cell. *Ital J Gastroenterol Hepato* 1999;31(suppl2):S117-30.
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B. Research

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