

ADHIP P. N. MAJUMDAR, Ph.D., D.Sc.

Office Address:

Research Service (151)
VA Medical Center
Detroit, Michigan 48201
(313) 576-4460 (Office)

EDUCATION:

- 1963 B.S. Agricultural Science, University of Kalyani, Kalyani, West Bengal, India.
- 1966 M.S. Nutrition, London School of Hygiene & Tropical Medicine, University of London, London, England.
- 1968 Ph.D. Nutrition, London School of Hygiene & Tropical Medicine, University of London, London, England.
- 1984 D.Sc. (Doctor of Science) (Gastroenterology), University of Aarhus, Aarhus, Denmark.

TRAINING:

- 1969 - 1970 Postdoctoral Research Fellow, Molecular Biology Laboratory, Clinical Research Institute, University of Montreal, Montreal, Canada.
- 1970 - 1972 Postdoctoral Research Fellow/Research Associate, Department of Biochemistry, McMaster University, Hamilton, Ontario, Canada.

FACULTY APPOINTMENTS:

- 1972 – 1974 : Assistant Professor, Institute of Medical Biochemistry, University of Aarhus, Aarhus, Denmark.
- 1974 – 1980 Associate Professor, Institute of Medical Biochemistry, University of Aarhus, Aarhus, Denmark.
- 1980 – 1981 Visiting Professor, Department of Physiology, University of Texas Medical School, Houston, Texas.
- 1982 – 1983 Associate Professor, Institute of Medical Biochemistry, University of Aarhus, Aarhus, Denmark.
- 1983 - 1986 Adjunct Associate Professor, Department of Biological Chemistry, University of California School of Medicine, Davis, California.
- 1986 - 1990 Associate Professor (Full Time Affiliate), Division of Gastroenterology, School of Medicine and Department of Nutrition, Wayne State University, Detroit, Michigan.
- 1990 - 1992 Professor (Full Time Affiliate), Division of Gastroenterology, Wayne State University School of Medicine, Detroit, Michigan.

- 1992 - Professor (Tenured), Department of Internal Medicine (Division of Gastroenterology), Wayne State University School of Medicine, Detroit, Michigan.
- 1992 - Adjunct Professor, Department of Biochemistry and Molecular Biology, Wayne State University School of Medicine, Detroit, Michigan.
- 1997 - Adjunct Professor, Center for Molecular Medicine and Genetics, Wayne State University School of Medicine, Detroit, Michigan.
- 1997 - Professor (Joint), Barbara Ann Karmanos Cancer Institute, Wayne State University School of Medicine, Detroit, Michigan.

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS:

- 1983 - 1986 Senior Research Biochemist, VA Medical Center, Martinez, California.
- 1986 - 1990 Senior Research Biochemist, VA Medical Center, Allen Park, Michigan.
- 1990 - 1995 Associate Chief of Staff for Education (ACOS/E), VA Medical Center, Allen Park, Michigan.
- 1995- 1997 Member of the Karmanos Cancer Institute (Formerly Michigan Cancer Foundation), Wayne State University, Detroit, Michigan.
- 2001 - Research Career Scientist/Senior Research Career Scientist, John D. Dingell VA Medical Center, Detroit, Michigan.

MAJOR PROFESSIONAL SOCIETIES:

American Society for Nutritional Sciences (ASNS)
American Gastroenterological Association (AGA)
Society for Experimental Biology and Medicine
American Physiological Society (APS)
International Society for the Study of Comparative Oncology (ISSCO)

HONORS/AWARDS:

- 1966 - 1968 Recipient of **Drummond Scholarship** from the University of London, London, England
- 1984 "**Outstanding Merit Certificate**", Martinez VA Medical Center, California
- 1989 "**Outstanding Merit Certificate**", Allen Park VA Medical Center, Michigan
- 1995 "**Performance Award**", Allen Park VA Medical Center, Michigan
- 1996 "**Performance Award**", Detroit VA Medical Center, Michigan
- 1998 **College Teaching Award**, School of Medicine, Wayne State University, Detroit, MI.
- 1999 **Research Excellence Award**, School of Medicine, Wayne State University, Detroit, MI.
- 2006 **College Teaching Award**, School of Medicine, Wayne State University, Detroit, MI
- 2006 **Outstanding Merit Certificate**, John D. Dingell VA Medical Center, Detroit, MI

SERVICE:

1. Professional Consultation:

- 1991 - 1992 **Member** of the NIH (NIDDK) Program Project Study Section
- 1988 - **Ad hoc reviewer** for Department of Veterans Affairs
- 1993 - **Ad hoc reviewer** for National Cancer Institute (NCI)
- 1993 - 1996 **Full member** of the VA Merit Review Subcommittee for Gastroenterology (Study section)
- 1997 **Member** of the NIH (NIDDK) Study Section (RFA) on *H. pylori*.
- 1997 **Member** of the Abstract Review Panel for the Section “Mucosal Defense Repair” for the American Gastrointestinal Association Meeting in New Orleans in May 1998.
- 1998 **Chairman**, AGA Research Forum on Mucosal Defense and Repair: Growth Factors and Angiogenesis. 99th Annual Meeting of the American Gastroenterological Association (AGA), New Orleans, LA.
- 1998 **Chairman** of the Abstract Review Panel for the Section “**Mucosal Defense and Repair**” for the American Gastrointestinal Association Meeting in New Orleans in May 1999.
- 1998 **Member** of the Abstract Review Panel for the Section “**Aging: Basic and Clinical**” for the American Gastrointestinal Association Meeting in New Orleans in May 1999.
- 1999 **Chairman**, AGA Research Forum on Mucosal Defense and Repair: Growth Factors and Angiogenesis. 100th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL.
- 2000 **Member** of the NIH (NIDDK) Program Project Study Section: Studies in Gastrointestinal Endocrinology
- 2001 **Member** (Adhoc) of the VA Merit Review Subcommittee for Oncology (Study Section).
- 2001 - 2004 **Member** of the VA Merit Review Advisory Group (**MRAG**) for Gastroenterology.
- 2001 - 2004 **Member** of the VA Career Development Review Panel/Study Section
- 2001- **Member** of **Aging Council** of the American Gastroenterological Association (AGA).
- 2003 **Member** VA Merit Review Subcommittee for Oncology (Study Section)
- 2003, 2004 **Member** of the NIH (NIDDK) Program Project Study Section: Studies in Gastrointestinal Endocrinology
- 2004 **Member** of the Abstract Review Panel for the Sections “Effects of Aging on GI Function and Physiology” and “Clinical Gastroenterology in the Elderly” for the meeting of the American Gastroenterological Association in May '04 in Orlando, FL.
- 2004 **Chairperson**, Research Forum, American Gastroenterological Association (AGA) in May '04 in Orlando, FL.
- 2004 Ad hoc reviewer for the Health Research Board, Ireland
- 2004 Ad hoc reviewer for Cancer Society, United Kingdom.
- 2007 Ad hoc reviewer for Cancer Society, United Kingdom

SERVICE (Cont.):

- 2005 **Chairperson**; Abstract Review Committee for “Novel Therapeutic Agents for GI Cancer”; Meeting of the American Gastroenterological Association (AGA) in May 20-25, 2006.
- 2006 Member of Abstract Review Committee for “Novel Therapeutic Agents for GI Cancer” for Meeting of the American Gastroenterological Association (AGA) at Washington DC on May 20-24, 2007

2. Journal/Editorial Activity:

Managing Editor (GI Section) of *Frontiers in Bioscience*

Reviewer for:

1. American Journal of Physiology (Cell) ; 2. American Journal of Physiology (Gastroenterology and Liver Physiology); 3.American Journal of Physiology (Endocrinology); 4. Proceedings of the Society for Experimental Biology and Medicine, 5. Journal of Pediatric Gastroenterology and Nutrition; 6.Biochemical Archives, 7. American Journal of Clinical Nutrition; 8. Gastroenterology 9.Journal of Laboratory and Clinical Medicine; 10. Peptides, 11.Pharmacology and Experimental Therapeutics; 12. Digestion, 13. Journal of Clinical Investigation; 14. The American Journal of Pathology, 15. Oncogene; 16. International Journal of Cancer; 17. Gut; 18 Journal of Experimental Cell Research, 19. Nature (Medicine); 20. FASEB J. 21. Molecular Cancer, 22. Biochemical Pharmacology

3. Other Professionally Related Service:

Associate Chief of Staff for Education (ACOS/E) at the Allen Park VA Medical Center (1990 -1995). I was responsible for overall cognizance, guidance, coordination and evaluation of educational activities of this facility. This is purely an administrative position. In addition to smooth running of my own office with two supporting staff (Program Assistant and Secretary), I am also responsible for the Medical Library, Medical Media and the Office of Patient Health Coordinator.

4. National and International Boards & Committees:

A. Positions Held in Professional Associations:

1. VA Merit Review Board for Gastroenterology (1993-1996)
2. Managing Editor (GI Section) of Frontiers in Bioscience

B. Memberships/Offices Held in Public Agencies Related to Discipline:

1. Graduate Faculty at Wayne State University
2. Initiative in Medical Informatics (IMI) Task Force - Wayne State University Medical School (1990 - 1992)
3. Translational Research Community Task Force (1995)
4. Department of Medicine Research Opportunities Task Force (1995)
5. Cancer Prevention Task Force (1995 - 1996)

5. State and local boards and committees:

- | | |
|-------------|--|
| 1990 - 1995 | Education Committee (Chairman) at VA Medical Center, Allen Park./Detroit |
| 1989 - 1996 | Nutrition Committee (Chairman) at VA Medical Center, Allen Park/Detroit |
| 1990 - | Research and Development Committee at VA Medical Center, Allen Park/Detroit. |
| 1992 - 1994 | Strategic Planning Committee at VA Medical Center, Allen Park/Detroit |
| 1990 - 1995 | Clinical Executive Board (CEB) at VA Medical Center, Allen Park/Detroit. |
| 1990 - 1995 | Administrative Executive Board (AEB) at VA Medical Center, Allen Park/Detroit |
| 1990 - 1995 | Residency Review Committee at VA Medical Center, Allen Park/Detroit |
| 1990 - 1995 | Dean's Committee at VA Medical Center, Allen Park/Detroit |
| 1995 - | OHEP Medical Research Committee (Community Hospital Education and Research), Southfield, MI. |
| 1996 - | Research Committee, Department of Medicine, Wayne State University, Detroit. |
| 1995 - 1996 | Critical Thinking in Medicine Working Group, Wayne State University, Detroit. |
| 1995 - 1996 | Promotion and Tenure (P & T) Committee, Department of Medicine, Wayne |

- 1999 State University, Detroit.
Research Implementation Committee, Department of Internal Medicine, Wayne State University
- 2000 Strategic Planning Committee for Translational Research, Karmanos Cancer Institute.
- 2001- Member, Research Development Committee, Wayne State University School of Medicine.

TEACHING:

1. Wayne State University, 1987 - present
2. Years at other colleges/universities:

1974 - 1980 &
1982 - 1983

Taught the following courses to entering medical students at the Institute of Medical Biochemistry, Aarhus University Medical School, Aarhus, Denmark.

- (1) Introductory Biochemistry
- (2) Nutrition in Health and Diseases (a part of the biochemistry curriculum)
- (3) Advance course in protein metabolism
- (4) Practical Biochemistry (laboratory course)

1984 - 1986

Gave lectures on the following topics to 3rd year medical students at the VA Medical Center, Martinez, CA (University of California Medical School - Davis, CA).

- (1) GI Hormones
- (2) Growth and Function of the GI Tract
- (3) Role of Nutrients on the Structure and Function of the GI Tract.

3. Courses taught at Wayne State University:

1987 - present

At the Department of Medicine (Division of Gastroenterology), Wayne State University Medical School, Detroit, MI, my teaching responsibilities are as follows:

- (1) Lectures on Research Methodology to the residents in internal Medicine
- (2) Participation and presentation of data at the clinical and basic science seminars
- (3) Supervising medical residents and junior faculty members in their research
- (4) **1996- present:** Cancer Biology Course (CB725).
- (5) **1997-present:** Small Group Teaching: Problem Solving Sessions (Department of Biochemistry and Molecular Biology) to 1st year Medical Students

At the Department of Nutrition and Food Science, Wayne State University, Detroit, my teaching responsibilities included:

- (1) Undergraduate Teaching: 4 Cr Course, entitled "Nutrition and Metabolism" (1989 - 1991)
- (2) Graduate Course: 2-3 credits (1987 - 1991)
- (3) Supervising graduate students (1987 - 1990)

At the Department of Molecular Medicine and Genetics, Wayne State University, I taught:

- (1) Graduate Course (#702) - 3 Cr Course in Advanced Molecular Biology

(1995 - 1996)

At the Department of Biochemistry and Molecular Biology, Wayne State University, I taught:

(1) Conference Teaching (Tutorial): Biochemistry and Molecular Biology to 1st Year Medical Students (1997-present)

(2) Conference Teaching (Tutorial): Clinical Nutrition: 1st Year Medical Students (1997-present)

Training of Pre- and Post-doctoral Students: In addition to guiding medical residents/ fellows in their research, I have supervised a number of pre- and post-doctoral candidates. The following individuals pursued their research under my supervision.

4. Essays/Theses/Dissertations directed:

1978	Anders Jorgensen, M.D. (Masters Degree Student)
1990	Beth Adams (Masters Degree Student)
1991	Mona Wahby, Ph.D. (Ph.D. Degree Student)
1995	Lisa Centella (Masters Degree Student)
1995-1997	Member of the Ph.D. Thesis Committee (Hairong Geng)
2004-	Member, Ph.D. Thesis Committee of: Jyoti Nautiyal, David Craig, Kristin Landis-Piwowar, Christina Downey

5. Mentees/Trainees

Atif Nakhla, Ph.D. (Postdoctoral Fellow); Chris Conteas, M.D. (Junior Faculty); Freda Arlow, M.D. (Junior Faculty); C-H. Lin, M.D. (Junior Faculty); Basim Dubaybo, M.D. (Junior Faculty); Jacob Colarian, M.D. (GI Fellow); Joel Lans, M.D. (GI Fellow); Nand Relan, Ph.D. (Postdoctoral Fellow); Jeffrey A. Moshier, Ph.D. (Junior Faculty); Ranjan Maitra (Summer Research Student); Michael Han (Summer Research Student); Saurab Choudhuri (Summer Research Student); Nazim Meah, M.D. (GI Fellow); Y.M. Nansy, M.D. (Medical Resident); D. Madhok, M.D. (GI Fellow); S.M. Quail, M.D. (Medical Resident); R. Matta, M.D. (Medical Resident); A. Saeed, M.D. (Medical Resident); Kavita Ponduri, M.D. (Medical Resident); Sanjay Kulkarni, Ph.D. (Postdoctoral Fellow); Ewa Malecka-Panas, M.D., Ph.D. (Postdoctoral Fellow); Richard Jaszewski, M.D. (Faculty); Sasi Boppana, M.D. (Medical Resident); Ahmed Khan, M.D. (Postdoctoral Fellow); Lei Liu, M.D., Ph.D. (Postdoctoral Fellow); Yingjie Yu, M.D. (Postdoctoral Fellow); Fouzia Siddiq, Ph.D. (Postdoctoral Fellow); Zhi-Qiang Xiao, M.D., Ph.D. (Postdoctoral Fellow); Lathika Moragoda, Ph.D. (Postdoctoral Fellow), Kiran Nagothu, Ph.D. (Postdoctoral Fellow); Maged Rizk (4th Year Medical Student); Jianhua Du, M.D., Yan Jiang, M.D. (Visiting Scientist); Jasbir Rangi, M.D. (GI Fellow); Dorota Marciniak, M.D., Ph.D. (Visiting Postdoctoral Fellow); Gregory Karapatian, B.S. (Summer Research Student); Lukasz Durko (Visiting Medical Student- Poland); Udayani Kodali, M.D. (GI Fellow), Joy Friedman (Medical Student; Summer Research); Luan Seiko (Graduate Student – MS); Rajesh Parikh, M.D. (GI Fellow); Sudha Reddy, M.D. (Medical Resident), Sabeena Misra, M.D. (Medical Resident), Melissa Dobson (Ph.D. student; lab rotation), Benchmart Moolmuang (Ph.D. student; lab rotation); Farook Bollis (4th year undergrad), Nolan Perez, M.D. (GI fellow), Nataliya Razumilava, MD (Medical Resident), Sunita Datula (GI Fellow), Sabeen Misra, MD (GI Fellow), Luciana Osaki (Ph.D. Student; University of Sao Paulo, Brazil), Rasna Gupta, MD (Medical Resident).

PATENTS: 1. Isolation and Characterization of Epidermal Growth Factor Receptor Related Protein (ERRP Protein) –Awarded on June 4, 2002; **U.S. Patent # 6,399,743.**
2. Recombinant DNA Encoding an Epidermal Growth Factor Receptor Related Protein

- (ERRP)- Awarded on June 24, 2003; **U.S. Patent # 6,582,934**
3. Antibodies to a Novel EGF-Receptor Related Protein (ERRP) - Awarded on May 23, 2006; **US Patent # 7,049,410**
 4. ErbB Inhibitory Protein [EBIP]: A Modified Ectodomain of Human EGFR is a Potential Anticancer Agent: **Submitted for the US Patent**

GRANT SUPPORT:

1. 1973 - 1980 Research was supported by grants from the Medical Research Council in Denmark and by other organizations (Novo Pharmaceutical Company, Advancement for Medical Research and King Christian-X Medical Research Fund) in Denmark.
2. 1985 - 1986 Biomedical Research Grant Support, University of California, Davis California, Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"Pancreatic Regeneration: Role of Cholecystokinin" \$5000.00
3. 1986 - 1989 Department of Veterans Affairs (VA Merit Review), Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"The Aging Gastric Mucosa: Biochemical Aspects" \$225,000 (Direct Cost)
4. 1988 - 1990 Department of Veterans Affairs (Co-Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.) (20%), Principal Investigator: Freda Arlow, M.D., Title: "The Chemoprotective Role of Calcium in Colorectal Cancer" \$60,000 (Direct Cost)
5. 1989 - 1992 Department of Veterans Affairs (VA Merit Review), Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"The Aging Gut: Regulation of Cell Proliferation" \$450,000 (Direct Cost)
6. 1991 - 1996 ROI AG08438; National Institutes of Health/National Institutes of Aging, Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"Gastric Mucosal Injury and Aging" \$389,000 (Direct Cost)
7. 1992 - 1997 Department of Veterans Affairs (VA Merit Review), Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"The Aging Gut: Regulation of Cell Proliferation" \$526,000 (Direct Cost)
8. 1993 - 1998 KO8 DK02174; (Clinical Investigator Award) National Institutes of Health. (Primary Sponsor and Co-Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; 10%; Principal Investigator: C-H Lin, M.D.) "Early Weaning and Gut Development: Role of ODC and Tyr-K" \$403,750 (Direct Cost)
9. 1996 – 19992 ROI AG08438; National Institutes of Health/National Institute on Aging Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"Gastric Mucosal Injury and Aging"; \$300,000 (Direct Cost): Percentile: 16.
- 10.1997- 2002 Department of Veterans Affairs (VA Merit Review), Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"The Aging Gut: Regulation of Cell Proliferation" \$460,000 (Direct Cost): Percentile: 7
This proposal was also submitted to the NIH; PI accepted funding from the NIH
- 11.1997- 2001 1 ROI AG14343; National Institutes of Health/National Institute on Aging. Principal Investigator: Adhip N. Majumdar, Ph.D., D.Sc.; Title:"The Aging Gut: Regulation of Cell Proliferation" \$521,000 (Direct Cost): Percentile: 3.7

12. 1998 - 2003 Department of Veterans Affairs (VA Merit Review),
Principal Investigators: **Adhip N. Majumdar, Ph.D., D.Sc. and Richard Jasjewski, M.D.**Title: Colorectal Adenoma: Chemoprevention by Folic Acid. \$650,000 (Direct Cost). Score: 20.7
13. 2001- 2006 5 RO1 AG14343; National Institutes of Health/National Institute of Aging
Principal Investigator: **Adhip N. Majumdar, Ph.D., D.Sc.**
Title: The Aging Gut: Regulation of Cell Proliferation
Budget: \$1,000,000 (Direct cost); Score: 147; Percentile: 12.1
14. 2002 - 2007 1-RO1 CA93917-01A1; NIH/NCI
Co-Investigator (5% effort); Principal Investigator: Ikuko Kato, M.D., Ph.D.
Title: Luminal Lipid Exposure, Genetics and Colon Cancer Risk
15. 2003 – 2008 1 RO1 CA 101870 – 01; NIH/NCI
Co-Investigator (10% effort); Principal Investigator: Fazlul Sarkar, Ph.D.
Title: Targeting Akt/NF- κ B Pathways for Pancreatic Cancer Therapy
Budget: \$1,855,150 (Direct Cost)
16. 2004 - 2008 Department of Veterans Affairs (VA Merit Review),
Principal Investigator: **Adhip N. Majumdar, Ph.D., D.Sc.**
Title: Colorectal Adenoma: Chemoprevention by Folic Acid. \$520,000 (Direct Cost). Percentile: 13.0
17. 2005-2009 Department of Veterans Affairs (VA Merit Review)
Principal Investigator: **Adhip N. Majumdar, Ph.D., D.Sc.**
Title: EGFR Related Peptide as a Novel Therapy for Colon Cancer
Budget: \$600,000 (Direct Cost). Percentile: 6.0
18. 2007- 20012 5 RO1 AG14343; National Institutes of Health/National Institute of Aging
Principal Investigator: **Adhip N. Majumdar, Ph.D., D.Sc.**
Title: The Aging Gut: Regulation of Cell Proliferation
Budget: \$1,250,000 (Direct cost); Score: 137; Percentile: 11.4
PENDING FUNDING DECISION

PUBLICATIONS:**Original observations in refereed journals:**

1. **Majumdar APN** and Wadsworth GR: Variation in the Concentration of Iron in Different Parts of Human Liver. Royal Society of Tropical Medicine and Hygiene 62:900-901, 1968.
2. **Majumdar APN** and Trachewsky T: Protein Synthesis by Ribosomes from Kidney Cortex: Effect of Aldosterone and Bilateral Adrenalectomy. Canadian Journal of Biochemistry 49:501-509, 1971.
3. Trachewsky D, **Majumdar APN** and Congoate LF: Effect of Aldosterone and Other Steroid in vivo on Rat Kidney Cortex: Alterations in Translation by Isolated Ribosomes and in the Thiol Content of Nuclear Proteins. European Journal of Biochemistry 26:543-552, 1972.
4. **Majumdar APN**, Greenfield S and Roigaard-Petersen H: Metabolism of Plasma Albumin in Rats with Congenital Hyperbilirubinemia (Gunn). Scandinavian Journal of Clinical and Laboratory Investigation 31:219-224, 1973.
5. **Majumdar APN** and Greenfield S: Evidence of Defective Protein Synthesis in Rats with Congenital Hyperbilirubinemia (Gunn). Biochimica Bio-physica Acta 335:260-263, 1974.
6. **Majumdar APN**: Bilirubin Encephalopathy: Effect on RNA-polymerase Activity and Chromatin Template Activity in the Brain of the Gunn Rat. Neurobiology 4:425-431, 1974.
7. Greenfield S and **Majumdar APN**: Bilirubin Encephalopathy: Effect of Protein Synthesis in the Brain of the Gunn Rat. Journal of Neurological Science 22:83-89, 1974.
8. **Majumdar APN** and Wadsworth GR: Influence of the Level of Protein in the Diet of Pregnant Mouse on Transfer of Iron to the Foetus. Nutrition Reports International 9:47-58, 1974.
9. **Majumdar APN**: Effect of Prolonged Administration of Iron (Imferon) on Protein Synthesis in Rats. Nutrition Reports International 9:415-425, 1974.
10. Jorgensen AJF and **Majumdar APN**: Bilateral Adrenalectomy: Effect of a Single Tube-Feeding of Tryptophan on Amino Acid Incorporation into Plasma Albumin and Fibrinogen in vivo. Biochemical Medicine 13:231-240, 1975.
11. Jorgensen AJF and **Majumdar APN**: Influence of Tryptophan on the Level of Hepatic Microsomal Cytochrome P-450 in Well-Fed Adrenalectomized and Phenobarbital-Treated Rats. Biochimica Biophysica Acta 44:453-460, 1976.
12. Jorgensen AJF and **Majumdar APN**: Bilateral Adrenalectomy: Effect of Tryptophan on Amino Acid Incorporation into Ferritin, Transferrin and Mixed Proteins of Liver, Brain and Kidneys in vivo. Biochemical Medicine 16:37-46, 1976.
13. **Majumdar APN** and Jorgensen AJF: Response of Well-Fed Adrenalectomized Rats to Tryptophan Force-Feeding on Hepatic Protein and RNA Synthesis. Biochemical Medicine 16:166-176, 1976.

14. **Majumdar APN:** Iron-Loading: Effect of the Activity of Liver Ribosomes on Protein Synthesis in Rats. *Nutrition Reports International* 13:9-18, 1976.
15. **Majumdar APN** and Jorgensen AJF: Influence of Tryptophan on the Activity of Acetylcholinesterase in the Brain of Well-Fed Normal and Adrenalectomized Rats. *Biochemical Medicine* 17:116-119, 1977.
16. **Majumdar APN** and Nakhla AM: Influence of Tryptophan on the Activity of Adrenalectomized Rats. *Biochemical Biophysical Research Communications* 76:71-77, 1977.
17. Nakhla AM and **Majumdar APN:** Tryptophan Force-Feeding: Changes in the Activities of Acetylcholinesterase in Various Tissues of Well-Fed Normal and Adrenalectomized Rats. *Biochemical Biophysical Research Communications* 79:96-104, 1977.
18. **Majumdar APN** and Goltermann N: Effects of Fasting and Pentagastrin on Protein Synthesis by Isolated Gastric Mucosal Ribosomes in a Cell-Free System. *Gastroenterology* 73:1060-1064, 1977.
19. Nakhla AM and **Majumdar APN:** Calcitonin-Mediated Changes in Plasma Tryptophan and Brain 5-Hydroxytryptamine and Acetylcholinesterase Activity in Rats. *Biochemical Journal* 170:445-448, 1978.
20. Nakhla AM and **Majumdar APN:** Bilateral Adrenalectomy: Factors Affecting Hepatic Protein Synthesis Following a Single Tube-Feeding of Tryptophan. *Nutrition and Metabolism* 22:167-176, 1978.
21. **Majumdar APN** and Goltermann N: Chronic Administration of Pentagastrin: Effect of Gastric Mucosal Synthesis in Rats. *Molecular and Cellular Endocrinology* 11:137-143, 1978.
22. **Majumdar APN** and Nakhla AM: Effect of Pentagastrin on Choline Acetyltransferase and Acetylcholinesterase Activities in Various Tissues of the Digestive Tract in Rats. *Biochemical Biophysical Research Communications* 81:1241-1247, 1978.
23. **Majumdar APN** and Nakhla AM: Pentagastrin Induction of Acetylcholinesterase Activity in Cerebral Cortex of Rats. *Experientia* 34:974-975, 1978.
24. **Majumdar APN:** Effect of Tryptophan on Hepatic Nuclear Free and Engaged RNA-polymerase in Young and Adult Rats. *Experientia* 34:1258-1259, 1978.
25. **Majumdar APN:** Effects of Fasting and Tryptophan Force-Feeding on the Activity of Hepatic Nuclear RNA-polymerases in Rats. *Scandinavian Journal of Clinical and Laboratory Investigation* 39:61-69, 1979.
26. **Majumdar APN** and Nakhla AM: Effects of 5-Hydroxytryptamine on Protein Synthesis in Gastrointestinal and Other Tissues, and on Serum Gastrin Concentrations in Rats. *British Journal of Pharmacology* 66:211-215, 1979.
27. Goltermann N and **Majumdar APN:** Stimulation of Gastric Mucosal Protein Synthesis by Various Molecular Forms of Gastrin. *Hormone Research* 11:142-150, 1979.
28. **Majumdar APN** and Goltermann N: Chronic Administration of Pentagastrin: Effects on Pancreatic Protein and Nucleic Acid Contents and Protein Synthesis in Rats. *Digestion* 19:144-147, 1979.

29. **Majumdar APN:** Effects of Fasting and Pentagastrin on Protein Synthesis by Different Classes of Polyribosomes of Gastric Mucosa of Rabbits. *Biochemical Medicine* 22:228-298, 1979.
30. **Majumdar APN:** Bilateral Adrenalectomy: Effect of Tryptophan on Protein Synthesis and Pepsin Activity in the Stomach of Rats. *Scandinavian Journal of Gastroenterology* 14:949-954, 1979.
31. **Majumdar APN:** Effects of Adrenalectomy and Tryptophan Force-Feeding on the Activity of Intestinal Disaccharidases in Adult Rats. *Scandinavian Journal of Gastroenterology* 15:225-228, 1980.
32. Nakhla AM and **Majumdar APN:** Effects of 5-Hydroxytryptamine on Free Amino Acid Composition of Stomach and on Protein Synthesis in the Stomach of Rats. *Biochemical Pharmacology* 29:1855-1857, 1980.
33. **Majumdar APN:** 5-Hydroxytryptamine-Mediated Inhibition of Protein Synthesis in Rabbit Reticulocyte Lysate Cell-Free System. *Research Communications in Chemical Pathology and Pharmacology* 28:435-446, 1980.
34. **Majumdar APN:** Bilateral Adrenalectomy: Effects of Hydrocortisone and Pentagastrin on Some Structural and Functional Properties of the Stomach of Weanling Rats. *Scandinavian Journal of Gastroenterology* 16:151-156, 1981.
35. **Majumdar APN:** Bilateral Adrenalectomy: Effects of Hydrocortisone and Pentagastrin on the Activity of Intestinal Disaccharidases and Alkaline Phosphatase in Weanling Rats. *Scandinavian Journal of Gastroenterology* 16:177-182, 1981.
36. **Majumdar APN:** Pentagastrin Stimulation of DNA Synthesis and Thymidine Kinase Activity in Gastric Mucosa of Rats. *Hormone Research* 15:37-43, 1981.
37. **Majumdar APN:** Influence of Dietary Tryptophan on the Activity of Intestinal Digestive Enzymes. *Nutrition Reports International* 24:1067-1073, 1981.
38. **Majumdar APN:** Effects of Fasting and Subsequent Feeding of a Complete or Tryptophan-Free Diet on the Activity of DNA-Synthesizing Enzymes and Protein Synthesis in Gastric Mucosa of Rats. *Annals of Nutrition and Metabolism* 26:264-272, 1982.
39. **Majumdar APN:** Tryptophan Requirement for Protein Synthesis: A Review. *Nutrition Reports International* 26:509-522, 1982.
40. **Majumdar APN** and Johnson LR: Gastric Mucosal Cell Proliferation During Development in Rats and Effects of Pentagastrin. *American Journal of Physiology (Gastrointest. and Liver Physiol.)* 242:G135-G139, 1982.
41. **Majumdar APN:** Regulation of Gastric Mucosal DNA Synthesis During Fasting and Refeeding in Rats. *Digestion* 27:36-43, 1983.
42. **Majumdar APN** and Rehfeld JF: Effects of Hydrocortisone on Gastrin Cell Functions in Various Tissues of Suckling Rats. *Digestion* 27:165-173, 1983.

43. **Majumdar APN:** Protein Synthesis by Gastric Mucosal Ribosomes During Development in Rats. *Journal of Pediatric Gastroenterology and Nutrition* 3:123-127, 1984.
44. **Majumdar APN:** Effects of Fasting and Refeeding on Antral, Duodenal and Serum Gastrin Levels and on Colonic Thymidine Kinase Activity in Rats. *Hormone Research* 19:127-134,1984.
45. **Majumdar APN:** Postnatal Undernutrition: Effect of Epidermal Growth Factor on Growth and Function of the Gastrointestinal Tract in Rats. *Journal of Pediatric Gastroenterology and Nutrition* 3:618-625, 1984.
46. **Majumdar APN:** Postnatal Undernutrition: Effect on Antral Gastrin Levels at a Later Age. *Experientia* 40:751-752, 1984.
47. **Majumdar APN:** Gastrin and Gastrointestinal Mucosal Growth. *The Danish Medical Bulletin* 146:2791-2792, 1984.
48. **Majumdar APN** and Frazier ML: Cell-free Synthesis of Rat Epidermal Growth Factor-like Polypeptide. *Research Communications in Chemical Pathology and Pharmacology* 46:106-111, 1984.
49. **Majumdar APN** and Nielsen H: Influence of Glucocorticoids on Prenatal Development in the Gut and Pancreas in Rats. *Scandinavian Journal of Gastroenterology* 20:65-71, 1985.
50. **Majumdar APN**, Davis GA, Dubick MA and Geokas MC: Nicotine Stimulation of Protein Secretion from Isolated Rat Pancreatic Acini. *American Journal of Physiology (Gastrointest. and Liver Physiol.)* 248:G158-G163, 1985.
51. Geokas MC, Vesenka GD, Dubick MA and **Majumdar APN:** Effect of *Pseudomonas Aeruginosa* Exotoxin-A on the Synthesis and Secretion of Proteins in Isolated Rat Pancreatic Acini. *Biochemical Biophysical Research Communications* 127:198-204, 1985.
52. **Majumdar APN**, Dubick MA, Vesenka GD, Billy HT and Geokas MC: Nonparallel Discharge of Digestive Enzymes from Isolated Pancreatic Acini. *Biochemical Biophysical Research Communications* 127:872-877, 1985.
53. Kaysen GA, **Majumdar APN**, Dubick MA, Vesenka GD, Mar G and Geokas MC: Biochemical Changes of the Pancreas in Rats with Chronic Renal Failure. *American Journal of Physiology (Renal and Electrolyte Physiology)* 249:F518-F523, 1985.
54. **Majumdar APN:** Effects of Undernutrition and Subsequent Nutritional Rehabilitation of Hydrocortisone Administration on Growth and Function of the Gastrointestinal Tract in Rats. *Nutrition Reports International* 33:187-198, 1986.
55. **Majumdar APN:** Haiman MJ, Zylbert BA, Billy HT, Vesenka GD and Geokas MC: Acetaldehyde Inhibition of Protein Synthesis in Isolated Rat Pancreatic Acini. *Toxicology and Applied Pharmacology* 83:86-94, 1986.
56. **Majumdar APN**, Vesenka GD, Dubick MA, Yu SMG, DeMorrow JM and Geokas MC: Morphological and Biochemical Changes of the Pancreas in Rats Treated with Acetaldehyde. *American Journal of Physiology (Gastrointest. and Liver Physiol.)* 250:G598-G606, 1986.

57. Conteas CN, DeMorrow JM and **Majumdar APN**: Effect of Epidermal Growth Factor on Growth and Maturation of Fetal and Neonatal Rat Small Intestine in Organ Culture. *Experientia* 42:950-952, 1986.
58. **Majumdar APN**, Vesenka GD, Dubick MA and Geokas MC: Evaluation of the Role of Calcium in Cytotoxic Injury in Isolated Pancreatic Acini. *Biochemical Biophysical Research Communications* 139:530-537, 1986.
59. Vesenka GD, **Majumdar APN**, Dubick MA, Silva J Jr., Lyerly DM, Wilkins TD and Geokas MC: Stimulation of Enzyme Secretion from Isolated Pancreatic Acini by Clostridium Difficile Toxin-B. *Toxicology Letters* 34:261-269, 1986.
60. Dubick MA, Mar G, Mayer AD, **Majumdar APN**, McMahon MJ and Geokas MC: Digestive Enzymes and Protease Inhibitors in Plasma from Patients with Acute Pancreatitis. *Pancreas* 2:187-194, 1987.
61. **Majumdar APN**, Vensenka GD and Dubick MA: Acceleration of Pancreatic Regeneration by Cholecystokinin in Rats. *Pancreas* 2:199-204, 1987.
62. Conteas CN and **Majumdar APN**: The Effects of Gastrin, Epidermal Growth Factor and Somatostatin on DNA Synthesis in a Small Intestinal Crypt Cell Line (IEC-6). *Proceedings of the Society for Experimental Biology and Medicine* 184:307-311, 1987.
63. Dubick MA, Mayer AD, **Majumdar APN**, Mar G, McMahon MJ and Geokas MC: Biochemical Studies in Ascites Fluid from Patients with Acute Pancreatitis: Relationship to Etiology. *Digestive Diseases and Sciences* 32:305-312, 1987.
64. Dubick MA, Conteas CN, Billy HT, **Majumdar APN** and Geokas MC: Elevated Serum Levels of Pancreatic Enzymes in Cigarette Smokers. *Gut* 28:330-335, 1987.
65. **Majumdar APN** and Edgerton BA: Gastrin Induction of Protein Synthesis in Isolated Gastric Mucosal Cells. *Proceedings of the Society for Experimental Biology and Medicine* 185:396-402, 1987.
66. **Majumdar APN** and Johnson LR: Effect of Putrescine on Oxyntic Gland and Colonic Mucosal Growth in Rats. *Life Sciences* 41:961-966, 1987.
67. Dubick MA, **Majumdar APN**, Kaysen GA, Burbige EJ and Geokas MC: Secretagogue-Induced Enzyme Release from the Exocrine Pancreas Following Adaptation to a High Protein Diet. *Journal of Nutrition* 118:305-310, 1988.
68. **Majumdar APN**, Edgerton EA, Dayal Y and Murthy SNS: Gastrin: Levels and Trophic Action during Advancing Age. *American Journal of Physiology (Gastrointest. and Liver Physiology)* 254:G538-G542, 1988.
69. **Majumdar APN**, Edgerton EA and Arlow FL: Gastric Mucosal Tyrosine Kinase Activity During Aging and Its Relationship to Cell Proliferation in Rats. *Biochem. Biophys. Acta.* 965:97-105, 1988.
70. Maitra RS, Edgerton EA and **Majumdar APN**: Gastric Secretion in Pyloric-Ligated Rats and Effects of Pentagastrin. *Experimental Gerontology* 23:463-472, 1988.
71. Conteas CN, McMorrow B and **Majumdar APN**. Epidermal Growth Factor Receptors in a Continuous Culture Crypt Cell Line (IEC-6). *Biochem. Arch.* 4:459-465, 1988.

72. Dubick MA and **Majumdar APN**: Biochemical Changes in the Exocrine Pancreas of Rats Fed Caffeine. *Proceedings of the Society of Experimental Biology and Medicine* 191: 153-158, 1989.
73. **Majumdar APN**, Moshier JA, Arlow FL and Luk GD: Biochemical Changes in the Gastric Mucosa After Injury in Young and Aged Rats. *Biochimica Biophysica Acta* 992:35-40, 1989.
74. Dubick MA, Yu GSM and **Majumdar APN**: Morphological and Biochemical Changes in the Pancreas of Copper Deficient Rats. *Journal of Nutrition* 119:1165-1172, 1989.
75. **Majumdar APN** and Arlow FL: Aging: Altered Responsiveness of Gastric Mucosa to Epidermal Growth Factor. *American Journal of Physiology (Gastrointest. Liver Physiol.)* 257:G554-G560, 1989.
76. Arlow FL, Walczak SM, Luk GD and **Majumdar APN**: Attenuation of Azoxymethone Induced Colonic Mucosal Ornithine Decarboxylase and Tyrosine Kinase Activity by Calcium in Rats. *Cancer Research* 49:5884-5888, 1989.
77. Dubaybo BA, Marwah GS, Fligel SEG, Hatfield JS and **Majumdar APN**: Tyrosine Kinase Activation During Lung Injury, Fibrosis and Compensatory Lung Growth. *Experimental Lung Research* 16:257-266, 1990.
78. Arlow FL, Walczak SM, Moshier JA and **Majumdar APN**: Gastrin and Epidermal Growth Factor Induction of Ornithine Decarboxylase in the Rat Colonic Explants and its Suppression by Difluoromethylornithine and Calcium. *Life Science* 46:777-784, 1990.
79. **Majumdar APN**: Role of Tyrosine Kinases in Gastrin Induction of Ornithine Decarboxylase in Colonic Mucosa. *American Journal of Physiology. (Gastrointest. Liver Physiol.)* 259:G626-G630, 1990.
80. **Majumdar APN**, Jasti S, Hatfield JS, Tureaud J and Fligel EG: Morphological and Biochemical Changes in Gastric Mucosa of Aged Rats. *Digestive Diseases and Sciences* 35:1364-1370, 1990.
81. Wahby M, Shelef LA, Luk GD and **Majumdar APN**: Induction of Gastric Mucosal Cell Proliferation by the Fungicide Captan: Role of Tyrosine Kinases. *Toxicology Letters* 54:189-198, 1990.
82. Simon MR, Kamlay MT, Desai SG and **Majumdar APN**: Angiotensin II Augmentation of Tyrosine Kinase Activity in Human Adherent Mononuclear Cells. *Biochemical Medicine and Metabolic Biology* 45:48-55, 1991.
83. Edgerton EA, Moshier JA, Luk GD and **Majumdar APN**: Effect of Gastric Mucosal Injury on Ornithine Decarboxylase in Young and Aged Rats. *Experimental Gerontology* 26:45-55, 1991.
84. **Majumdar APN** and Dubick MA: Gastrin Affects Enzyme Activity and Gene Expression in the Aging Rat Pancreas. *Experimental Gerontology* 26:57-64, 1991.
85. Elitsur Y, **Majumdar APN** and Luk GD: Epidermal Growth Factor Regulation of DNA Synthesis in Human Colonic Lamina Propria Lymphocytes. *Digestive Diseases and Science* 36:335-340, 1991.
86. Arlow FL, Colarian J, Calzada R, Luk GD and **Majumdar APN**: Differential Activation of Ornithine Decarboxylase and Tyrosine Kinase in the Rectal Mucosa of Patients with Hyperplastic and Adenomatous

- Polyps. *Gastroenterology* 100:1528-1532, 1991.
87. Lans J, Jaszewski R, Arlow FL, Tureaud J, Colarian J, Luk GD and **Majumdar APN**: Supplemental Calcium Suppresses Mucosal Ornithine Decarboxylase Activity in Elderly Patients with Adenomatous Polyps. *Cancer Research*. 51:3416-3419, 1991.
88. **Majumdar APN** and Tureaud J: Role of Tyrosine Kinases in Bombesin Regulation of Gastric Mucosal Proliferative Activity in Young and Aged Rats. *Peptides* 13: 795-800, 1992.
89. **Majumdar APN** and Wahby M: Gastrin-mediated Changes in Tyrosine Kinases In Isolated Gastric Mucosal Cells from Young and Aged Rats. *Proceedings of the Society for Experimental Biology and Medicine* 202:365-370, 1993.
90. Dubick MA, Cornell T and **Majumdar APN**: Bombesin-Induced Changes in Expression of Pancreatic Enzymes in Young and Old Rats. *Experimental Gerontology* Vol. 28:259-268, 1993.
91. Moshier JA, Cornell T and **Majumdar APN**: Expression of Protease Genes in the Gastric Mucosa During Aging. *Experimental Gerontology* 28:249-258, 1993.
92. Jaszewski R, Katta S, Zaki N and **Majumdar APN**: Changes in Gastric Mucosal Ornithine Decarboxylase and Tyrosine Phosphorylation of Proteins in Postgastrectomy Patients. *Scandinavian Journal of Gastroenterology* 28:609-612, 1993.
93. **Majumdar APN**, Tureaud J, Relan NK, Kessel A, Dutta S, Hatfield J and Fligiel SEG: Increased Expression of pp60^{c-src} in Gastric Mucosa of Aged Rats. *Journals of Gerontology* 49:B110-B116, 1994.
94. Fligiel SEG, Relan NK, Dutta S, Tureaud J, Hatfield J and **Majumdar APN**: Aging Diminishes Gastric Mucosal Regeneration: Relationship to Tyrosine Kinases. *Laboratory Investigation* 70:764-774, 1994.
95. Dubick MA, Gretz D, and **Majumdar APN**: Overt Vitamin B-6 Deficiency Affects Rat Pancreatic Digestive Enzyme and Glutathione Reductase Activities. *Journal of Nutrition* 125:20-25, 1995.
96. Nensy NM, Arlow FL and **Majumdar APN**. Aging: Increased Responsiveness of Colorectal Mucosa to Carcinogen Stimulation and Protective Role of Folic Acid. *Dig. Dis. Sci.* 40:396-401, 1995.
97. Relan NK, Saeed A, Ponduri K, Fligiel SEG, Dutta S and **Majumdar APN**: Identification and evaluation of the role of endogenous tyrosine kinases in azoxymethane induction of proliferative processes in the colonic mucosa of rats. *Biochimica. Biophysica Acta.* 1244:368-376, 1995.
98. Elitsur Y, Moshier JA, Dosecsu J, Tureaud J and **Majumdar APN**: Ornithine Decarboxylase and Tyrosine Kinase Activity in Juvenile Polyps of Childhood. *Pediatric Research* 38:574-578, 1995.
99. Moshier JA, Malecka-Panas E, Geng H, Dosecsu J, Tureaud J, Skunca M and **Majumdar APN**: Ornithine Decarboxylase Transformation of NIH/3T3 Cells is Mediated by Altered Epidermal Growth Factor Receptor Activity. *Cancer Research* 55:5358-5365, 1995.
100. Relan NK, Fligiel SEG, Dutta S, Tureaud J, Chauehan DP and **Majumdar APN**: Induction of EGF-receptor Tyrosine Kinase During Early Reparative Phase and Effects of Aging. *Laboratory Investigation* 73:717-726, 1995.

101. Malecka-Panas E, Relan NK and **Majumdar APN**: Increased Activation of EGF-receptor Tyrosine Kinase by EGF and TGF- α in the colonic Mucosa of Aged Rats. *Journal of Gerontology* 51A, B60-B65, 1996.
102. Malecka-Panas E, Fligiel SEG, Relan NK, Dutta S and **Majumdar APN**: Azoxymethane Enhances Ligand-induced Activation of EGF-Receptor Tyrosine Kinase in the Colonic Mucosa of Rats. *Carcinogenesis* 17:233-237, 1996.
103. **Majumdar APN**, Fligiel SEG, Jaszewski R, Tureaud J and Chelledurai B: Inhibition of Gastric Mucosal Regeneration by Tyrphostin: Evaluation of the Role of EGF-receptor Tyrosine Kinase. *Journal of Laboratory and Clinical Medicine* 128: 173-178, 1996
104. Malecka-Panas E, Tureaud J and **Majumdar APN**: Gastrin Activates Tyrosine kinase and Phospholipase C in Isolated Rat Colonocytes. *Acta Biochimica Polonica*. 43: 539-546, 1996.
105. Lin CH, Moshier JA, Luk GD, Lee PC and **Majumdar APN**: Effect of Thyroxine on Pancreatic Digestive Enzymes and Ornithine Decarboxylase Gene Expression in Neonatal rats. *Journal of Pediatric Gastroenterology and Nutrition* 24: 18-24, 1997.
106. Malecka-Panas E, Fligiel SEG, Jaszewski R and **Majumdar APN**: Differential Responsiveness of Proximal and Distal Colonic Mucosa to Gastrin. *Peptides*, 18: 559-565, 1997.
107. Malecka-Panas E, Kordek R, Biernat W, Tureaud J, Liberski PP, **Majumdar APN**: Differential Activation of Total and EGF Receptor Tyrosine Kinase in the Rectal Mucosa in Patients with Adenomatous Polyps, Ulcerative Colitis and Colon Cancer. *Hepatogastroenterology*, 44: 435-440, 1997.
108. Tureaud J, Sarkar FH, Fligiel SEG, Kulkarni S, Jaszewski R, Reddy K, Yu, Y, and **Majumdar APN**: Increased Expression of EGFR in Gastric Mucosa of Aged Rats. *American Journal of Physiology*, 273 (Gastrointest. Liver Physiol. 36): G389 - G398, 1997.
109. Mohammad RM, Al-Khatib A, Pettit, GR, Vaitkevicius VK, Joshi U, Adsay V, **Majumdar APN**, and Sarkar FH: An Orthotopic Model of Human Pancreatic Cancer in SCID-Mice: Potential Application for Preclinical Studies. *Clinical Cancer Research* 4: 887-894, 1998.
110. **Majumdar APN** and Goldenring JR: Localization and Significance of pp55, a Gastric Mucosal Membrane Protein with Tyrosine Kinase Activity. *American Journal of Physiology (Gastrointestinal and Liver Physiol.)* 274: G863-G870, 1998
111. Liu L, Turner J, Yu Y, Khan A, Jaszewski R, Fligiel SEG, and **Majumdar APN**: Differential Expression of EGFR During Early Reparative Phase of the Gastric Mucosa Between Young and Aged Rats. *American Journal of Physiology* 275 (Gastrointestinal and Liver Physiol. 38): G943-G950, 1998.
112. Malecka-Panas E, Tureaud J, and **Majumdar A.P.N**: Enhanced Ligand-Induced Activation of EGF-Receptor and Overall Tyrosine Kinase and Phospholipase C in Colonocytes Isolated from Azoxymethane-Treated Rats. *Hepatogastroenterology* 45: 733-737, 1998.
113. Khan AJ, Fligiel SEG, Liu L, Chandok A, Jaszewski R and **Majumdar APN**: Induction of EGFR

- Tyrosine Kinase in the Gastric Mucosa of Diabetic Rats. Proceedings of the Society for Experimental Biology and Medicine 221: 105-110, 1999.
114. Elitsur Y, **Majumdar APN**, Tureaud J, Dossescu J, Neace C, Velusamy L and Moshier JA: Tyrosine Kinase and Ornithine Decarboxylase Activation in Children with *Helicobacter Pylori* Gastritis. Life Sciences 65: 1373-1380, 1999.
 115. Xiao Z-Q, Yu Y, Khan A, Jaszewski R, Ehrinpreis MN and **Majumdar APN**: Induction of G₁ Checkpoint in the Gastric Mucosa of Aged Rats. American Journal of Physiology (Gastrointestinal and Liver Physiology) 277: G917-G921, 1999.
 116. Jaszewski R, Khan A, Sarkar FH, Kucuk O, Tobi M, Zagnoon A, Dhar R, Kinzie J, and **Majumdar APN**: Folic Acid Inhibition of EGFR Mediated Proliferation in Human Colon Cancer Cell Lines. American Journal of Physiology (Cell Physiology) 277: C1142-C1148, 1999.
 117. Sondeen J, Dubick MA, Yu Y, and **Majumdar APN**: Expression of the Epidermal Growth Factor (EGF) Receptor in Duodenum from Rabbits Subjected to Hemorrhage and Renal Ischemia Reperfusion. Journal of Laboratory and Clinical Medicine 134: 641-648, 1999.
 118. Geng H, Naylor P, Dossescu J, Skunca M, **Majumdar APN** and Moshier JA: TGF- α is Required for Full Expression of the Transformed Growth Phenotype of NIH/3T3 Cells Expressing Ornithine Decarboxylase. Carcinogenesis 21(4): 567-572, 2000
 119. Turner JD, Liu L, Fligel SEG, Jaszewski R, and **Majumdar APN**: Aging Alters Gastric Mucosal Responses to Epidermal Growth Factor and Transforming Growth Factor α . American Journal of Physiology –Gastrointest. Liver Physiology. 278: G805-G810, 2000.
 120. Xiao Z-Q, and **Majumdar APN**: Induction of Transcriptional Activity of AP-1 and NF- κ B in the Gastric Mucosa During Aging. American Journal of Physiology-Gastrointest. Liver Physiology. 278: G855-G865, 2000.
 121. Xiao Z-Q, Jaszewski R, and **Majumdar APN**: Aging Enhances G₁ Phase in the Colonic Mucosa of Rats. Mechanisms of Ageing and Development 116: 1-14, 2000.
 122. Yu Y, Rishi A, Turner JR, Liu D, Black E, Moshier JA and **Majumdar APN**: Cloning of a Novel EGFR Related Peptide: A Putative Negative Regulator of EGFR. American Journal of Physiology: Cell Physiology. 280: C1083-1089, 2001.
 123. Xiao Z-Q and **Majumdar APN**: Increased *In Vitro* Activation of EGFR by Membrane-bound TGF- α from Gastric and Colonic Mucosa of Aged Rats. American Journal of Physiology: Gastrointestinal and Liver Physiology 281: G111-G116, 2001.
 124. Moragoda L, Jaszewski R, **Majumdar APN**: Curcumin Induced Modulation of Cell Cycle and Apoptosis in Gastric and Colon Cancer Cells. Anticancer Research 21: 873-878, 2001.
 125. Xiao, Z-Q, Moragoda L, Jaszewski R, Hatfield JA, Fligel SEG, **Majumdar APN**: Aging is Associated with Increased Proliferation and Decreased Apoptosis in the Colonic Mucosa. Mechanisms of Ageing and Development 122: 1849-1864, 2001.

126. Moragoda L, Jaszewski J, Kulkarni P, **Majumdar APN**: Age-associated Loss of Heterozygosity of Tumor Suppressor Genes in the Gastric Mucosa of Humans. *American Journal of Physiology: Gastroenterointest. Liver Physiology* 282: G932-G936, 2002
127. Lin C-H, Vijesurier R, Ho Y-S, Schipper RG, Tolia V, Moshier JA, **Majumdar APN**: Expression of Intestinal Ornithine Decarboxylase During Postnatal Development in Neonatal Rats. *Biochim. Biophys. Acta* 1589: 298-304, 2002.
128. Feng J, Adsay NV, Kruger M, **Majumdar APN**, Sarkar FH: Expression of ERRP in Normal and Neoplastic Pancreata and its Relationship to Clinicopathological Parameters in Pancreatic Adenocarcinoma. *Pancreas* 25: 342-349, 2002.
129. Marciniak DJ, Moragoda L, Mohammad R, Yu Y, Nagothu K, Sarkar F, Adsay V, Aboukameel A, Rishi A, **Majumdar APN**: Epidermal Growth Factor Receptor-Related Protein: A Potential Therapeutic Agent for Colorectal Cancer. *Gastroenterology* 124: 1337-1347, 2003.
130. **Majumdar APN**, Du J, Hatfield J, Levi E, Adsay V, Schmelz E, Nagothu KK, Jaszewski, Kucuk, O, Sarkar FH: Expression of EGF-Receptor Related Protein (ERRP) Decreases in the Gastric Mucosa During Aging and carcinogenesis. *Digestive Diseases and Sciences* 48(5): 856-864, 2003.
131. Xiao Z-Q, Li J, **Majumdar APN**: Enhanced TGF- α Mediated Activation of AP-1 in the Aging Gastric Mucosa. *American Journal of Physiology: Gastrointest. Liver Physiology* 285: G396-G403, 2003.
132. Nagothu K, Jaszewski R, Moragoda L, Rishi AK, Finkenauer R, Tobi M, Naumoff JA, Dhar R, Ehrinpreis M, Kucuk O, **Majumdar APN**: Folic Acid Mediated Attenuation of Loss of Heterozygosity of DCC Tumor Suppressor Gene in the Colonic Mucosa of Patients with Colorectal Adenomas. *Cancer Detection and Prevention* 27: 297-304, 2003.
133. Rishi AK, Zhang L, Boyanapalli M, Wali A, Mohammad RM, Yu Y, Fontana JA, Hatfield JS, Dawson M I, **Majumdar APN**, Reichart U. Identification and Characterization of a Cell-Cycle and Apoptosis Regulatory Protein (CARP)-1 as a Novel Mediator of Apoptosis Signaling by Retinoid CD437. *Journal of Biological Chemistry* 287: 33422-33435, 2003.
134. Jaszewski R, Miller B, Hatfield JS, Nagothu K, Finkenauer R, Rishi AK, Naumoff J, Kucuk O, Axelrod BN, **Majumdar APN**: Folic Acid Reduces Nuclear Translocation of β -Catenin in Rectal Mucosal Crypts of Patients with Colorectal Adenomas. *Cancer Letters* 206: 27-33, 2004.
135. Nagothu KK, Rishi AK, Jaszewski R, Kucuk O, **Majumdar APN**: Folic Acid Mediated Inhibition of Serum-induced Activation of EGFR Promoter in Colon Cancer Cells. *Am. J. Physiol. Gastrointest. Liver Physiol.* 287: G541-G546, 2004.
136. Schmelz EM, Levi E, Du J, **Majumdar APN**: Loss of Expression of EGF-Receptor Related Protein (ERRP) in the Aging Colon: A Risk Factor for Colorectal Cancer. *Mechanisms of Ageing and Development* 125: 917-922, 2004.
137. Moon WS, Chang KJ, **Majumdar APN**, Tarnawski AS: Reduced Expression of Epidermal Growth Factor Receptor Related Protein in Hepatocellular Carcinoma: Implications for Cancer Growth. *Digestion* 69: 219-224, 2004.

138. Jaszewski R, Levi E, Sochaki P, Frank J, Kucuk O, Axelrod B, **Majumdar APN**: Expression of Epidermal Growth Factor – Receptor Related Protein (ERRP) in Human Colorectal Carcinogenesis. *Cancer Letters* 213: 249-255, 2004.
139. Levi E, Mohammad R, Kodali U, Marciniak D, Reddy S, Aboukameel A, Sarkar FH, Kucuk O, Rishi AK, **Majumdar APN**: EGF-Receptor Related Protein Causes Cell Cycle Arrest and Induces Apoptosis of Colon Cancer Cells in vitro and in vivo. *Anticancer Research* 24: 2885-2892, 2004.
140. Dubick MA, Cameron DG, Sondeen JL, **Majumdar APN**: Hypotensive Resuscitation of Casualties in the Far-forward Combat Environment: Effects of Select Crystalloids and Colloids on Signal Transduction Mediators in a Swine Model of Severe Hemorrhage. *Proc of 24th Army Science Conference - In Press*
141. Marciniak DJ, Rishi AK, Sarkar FH, **Majumdar APN**: Epidermal Growth Factor Receptor Related Peptide (ERRP) Inhibits Growth of PC-3 Prostate Cancer Cells. *Molecular Cancer Therapeutics* 3: 1615-1621, 2004.
142. Xu H, Yu Y, Marciniak DJ, Rishi A, Sarkar FH, Kucuk O, **Majumdar APN** : EGFR-Related Protein (ERRP) Inhibits Multiple Members of EGFR Family in Colon and Breast Cancer Cells. *Molecular Cancer Therapeutics* 4: 435-442, 2005.
143. Moon WS, Tarnawski AS, Chai J, Yang JT, **Majumdar APN**: Reduction of Epidermal Growth Factor Receptor Related Protein Expression in Gastric Cancer: A Key to Cancer Growth and Differentiation. *Gut* 54: 201-206, 2005.
144. Zhang Y, Banerjee S, Wang Zhi-wei, Marciniak DJ, **Majumdar APN**, Sarkar FH: Epidermal Growth Factor Related Protein (ERRP) Inhibits Cell Growth and Induces Apoptosis of BxPC-3 Pancreatic Cancer Cells. *Cancer Research* 65: 3877-3882, 2005.
145. **Majumdar APN, Du J: Phosphatidylinositol 3 Kinase/Akt Signaling Stimulates Colonic Mucosal Cell Survival During Aging. American Journal of Physiology: Gastrointestinal and Liver Physiology** 290: G49-G55, 2006.
146. Zhang Y, Banerjee S, Wang Z, Xu H, Zhang L, Mohammad R, Aboukameel A, Adsay NV, Che M, Abburuazzese JL, **Majumdar APN**, Sarkar FH. Anti-cellular and Anti-tumor Activity of EGFR-Related Protein is Mediated by Inactivation of erbB Receptors and NF- κ B in Pancreatic Cancer. *Cancer Res* 66: 1025-1032, 2006.
147. Rishi AK, Parikh R, Wali A, Durko L, Zhang L, Yu Y, **Majumdar APN**: EGF-receptor Related Protein (ERRP) Inhibits Invasion of Colon Cancer Cells and Tubule Formation by Endothelial Cells In vitro. *Anticancer Res.* 26: 1029-1038, 2006.
148. Rishi AK, Zhang L, Yu Y, Nautiyal J, Wali A, Fontana JA, Levi, E, **Majumdar APN**: Cell cycle and apoptosis regulatory protein (CARP)-1 is involved in apoptosis signaling by epidermal growth factor receptor (EGFR). *J. Biol. Chem.* 281: 13188-13198, 2006.
149. Reddy S, Rishi AK, Xu H, Levi E, Sarkar FH, **Majumdar APN**: Mechanisms of curcumin and EGF-receptor related protein (ERRP)-dependent growth inhibition of colon cancer cells. *Nutr. Cancer* 55: 185- 194, 2006
150. Wang Z, Sengupta R, Banerjee S, Li Y, Zhang Y, Rahman KMW, Aboukameel A, Mohammad RM, **Majumdar APN**, Sarkar FH: Epidermal growth factor receptor-related protein inhibits cell growth

and invasion in pancreatic cancer. *Cancer Res.* 66: 7653-7660, 2006.

- 151. Majumdar APN, Rishi AK: Therapeutic potential of epidermal growth factor receptor-related protein (Letter to the Editor). *Mol. Cancer Ther.* 5: 2955, 2006.**

DISSERTATIONS, BOOKS CHAPTERS AND REVIEWS:

1. **Majumdar APN:** Influence of Maternal Diet on Iron Accumulation in the Mouse Foetus. Ph.D. Thesis, University of London, London, England, 1968.
2. **Majumdar APN** and Goltermann N: Effect of Gastrin G-17 on Colonic Mucosal Polyribosomes and Protein Synthesis in Rats. In: Gastrins and the Vagus (Eds. Rehfeld JF and Amdrup E), Academic Press, New York, pp. 253-257, 1979.
3. **Majumdar APN:** Gastrin and Gastrointestinal Mucosal Growth. D.Sc. Dissertation, University of Aarhus, Aarhus, Denmark, 1984.
4. **Majumdar APN:** Influence of Tryptophan on Gastric Mucosal Protein Synthesis. In: Progress in Tryptophan and Serotonin Research. Edited by Schlossberger HG, Kochen W, Linen B and Steinhart H. Walter de Gruyter, New York, Berlin, pp. 553-561, 1984.
5. **Majumdar APN:** Gastrin Ontogeny and Gastric Mucosal Growth During Development. In: Proceedings of the Workshop on Drugs, Hormones, Integrity and Structure of Gastric Mucosa (Edited by Halter F), Scandinavian Journal of Gastroenterology, 19(Suppl. 101):13-19, 1984.
6. Geokas MC, Contreas CN and **Majumdar APN:** The Aging Gastrointestinal Tract, Liver and Pancreas. In: Clinics in Geriatric Medicine, Vol. 1, (Geokas MC, ed.). W.B. Saunders Co., Philadelphia, pp. 177-205, 1985.
7. **Majumdar APN:** Role of Tryptophan in Maintaining the Structural and Functional Properties of the Gastrointestinal Mucosa. In: Advances in Diet and Nutrition (Horowitz C, ed.), John Libbey, London, pp. 144-150, 1985.
8. Dubick MA and **Majumdar APN:** Effect of Copper Deficiency on Enzyme Secretion from Isolated Pancreatic Acini. Proceedings of the 6th International Symposium on Trace Element Metabolism in Man and Animals (TEMA). In: Trace Elements in Man and Animals VI (Hurley, L.S., Kean, C.O., Lornnerdal, B. and Rucker, R.B., eds.) Plenum Publishing, New York, pp. 113-114. 1988.
9. **Majumdar APN:** Ontogeny of Gastrin. In: Human Gastrointestinal Development (edited by E. Lebenthal), Raven Press, New York, pp. 325-339, 1989.
10. **Majumdar APN** and Dubick MA: The Aging Gastrointestinal Tract: Cell Proliferation and Nutritional Adaptation. In: Progress in Food and Nutrition Science (Chandra RK, ed.), Pergamon Press, New York, 13: 139-160, 1989.
11. **Majumdar APN:** Growth and Maturation of the Gastric Mucosa. In: Growth of the Gastrointestinal Tract: Gastrointestinal Hormones and Growth Factors (Morisset J, Solomon T, Eds.), CRC Press, New York, pp. 119-130, 1990.
12. **Majumdar APN** and Luk GD: Gastric Epithelial Cell Proliferation After Injury. J. Clin. Gastroenterol. 14(Suppl. 1):S25-S28, 1992.
13. **Majumdar APN:** Regulation of Gastric Mucosal Cell Proliferation during Advancing Age. In: Facts and

Research in Gerontology (Vellas, B and Albaredo, JL, eds.), Springer Publishing, pp 27-34, 1992.

14. **Majumdar APN** and Malecka-Panas E: Gastrin: Receptor and Post-receptor Regulation of Gastrointestinal Mucosal Growth. *Pediatric Review Vol. 23(Suppl)3:11-20*, 1993.
15. **Majumdar APN**, Jaszewski R and Dubick MA: Effect of Aging on the Gastrointestinal Tract and Pancreas. *Proceedings of the Society for Experimental Biology and Medicine* 215: 134-144, 1997.
16. **Majumdar APN**, Fligielski SEG and Jaszewski R: Gastric Mucosal Injury and Repair: Effect of Aging. *Histology and Histopathology*, 12: 491-501, 1997
17. Jaszewski R, Ehrinpreis MN and **Majumdar APN**: Aging and Cancer of the Stomach and Colon. *Frontiers in Bioscience* 4: 322-328, 1999.
18. **Majumdar APN**: Nutrition and Gastrointestinal Cancer. In: *Medicine in the Millenium* (Ray P ed.), Marks Media Services, Calcutta, India., 2000
19. **Majumdar APN**: Role of Nutrition in Gastric and Colon Cancers. *International Review of Allergology and Clinical Immunology*, 6 (4): 145-149, 2000.
20. **Majumdar APN** and Jaszewski R: Aging of the Esophagus and Stomach. In: *Aging and the Gastrointestinal Tract*. [Pilotto A, Malfertheiner P, Holt PR (Eds.)]; Karger, Basel, p40-56, 2003.
21. **Majumdar APN**: Regulation of Gastrointestinal Mucosal Growth During Aging. *Journal of Physiology and Pharmacology*. 54 (Suppl. 4): 143-154, 2003.
22. **Majumdar APN**, Kodali U, Jaszewski R: Chemopreventive Role of Folic Acid in Colorectal Cancer. *Frontiers in Bioscience* 9: 2725-2732, 2004.
23. Malecka-Panas E, Talar-Wojnarowska R, Kotynia J, **Majumdar APN** : Experimental Studies as an Inspiration for Clinical Investigation. *Journal of Physiology and Pharmacology* 55 (Suppl. 2): 139-150, 2004.
24. **Majumdar APN**: Therapeutic Potential of EGFR Related Protein (ERRP): A Universal EGFR Family Antagonist. *Future Oncology* 1(2) : 235-245, 2005.
26. **Majumdar APN, Basson MD: Effect of Aging on the Gastrointestinal Tract; In: *Physiology of the Gastrointestinal Tract*, Johnson LR, Barrett K, Ghishan F, Merchant JI, Said HM, Wood JD (eds), 2006, Academic Press, New York, p405-433**
27. **Dubick MA, DG Cameron, JL Sondeen, APN Majumdar. Hypotensive Resuscitation of casualties in the far-forward combat Environment: Effects of select crystalloid and colloids on Signal transduction mediators in a swine model of severe hemorrhage. In: Transformational Science and Technology for the Current and Future Force, Proc 24th Army Science Conference. Selected Topics in Electronics and Systems, JA Parmentola, AM Rajendran, W Bryzik, BJ Walter, JW McCauley, J Reifman, NM Nasrabadi, Eds., 2006, Vol 42, Ch 11: Biomedical Technologies, pp 394-400.**
28. **Nautiyal J, Rishi AK, Majumdar APN: Emerging Therapies in Gastrtointestinal Cancers. World J.**

Gastroenterol. 12: 7440-7450, 2006.

- 29. Bhaumik P, Majumdar APN: Role of Epidermal Growth Factor Receptor Pathway in Biology and Treatment of Pancreatic Cancer. In: *Pancreatic Cancer*, Lowy AM, Leach S (eds). Springer – In Press**

ABSTRACTS:

1. Trachewsky D, Majumdar APN, and Cheah A: Modification de la Chromatine du Cortex du Rat et son Alteration de Capacite des Ribosomes Synthesier les Proteins Apres Administration de Aldosterone. Union Medical Canada. 99:329-330, 1971.
2. Trachewsky D, and Majumdar APN: Effect of Several Steroids on Protein Synthesis by Isolated Rat Renal Cortical Ribosomes. Proceedings of Canadian Federation of Biological Society. 14:395, 1971.
3. Majumdar APN, and Branda LA: Studies on the Isolated Neurohypophysial Hormones in Rat with Diabetes Insipidus. Proceedings of the Canadian Federation of Biological Society. 14:295, 1971.
4. Branda LA, and Majumdar APN: A Possible Biosynthesis of the Neurohypophysial Hormone Oxytocin. In: IV International Congress of Endocrinology, Washington, USA. Excerpta Medica 256:79-80, 1972.
5. Branda LA, and Majumdar APN: Biosynthesis y Secrecion de la Ociyocina. Reun Asso Latin Amer Invest Rep Hum, Argentina, 1972.
6. Majumdar APN, Roigaard-Petersen H, and Greenfield S: A Study of the Biosynthesis of Albumin in Gunn Rats. The Danish Biochemical Society, Odense, Denmark, 1972.
7. Majumdar APN: Iron-Loading: Effect on Protein Synthesis in Rats. Ninth Meeting of the Federation of the European Biological Society, Budapest, Hungary, 1974 - Abs. No. 407.
8. Majumdar APN, and Jorgensen AJF: Effect of Tryptophan on Protein Synthesis in Bilaterally Adrenalectomized Rats. Tenth International Congress of Biochemistry (Abs. No. 16-5-058), Hamburg, West Germany, 1976.
9. Majumdar APN: A Study of the Interrelationship Between Amino Acids (Tryptophan) and Adrenal Hormones with Respect to the Regulation of Hepatic Protein Synthesis in Rats. Scandinavian Postgraduate Course on Steroid Hormones Receptors, Bergen, Norway, 1976.
10. Majumdar APN: Effect of Tryptophan Force-Feeding on RNA-Polymerase Activity in Fasted Rat Livers. The Danish Biochemical Society, Vejle, Denmark, 1976.
11. Jorgensen AJF, and Majumdar APN: Response of Well-Fed Adrenalectomized Rats to Tryptophan Force-Feeding on Hepatic Protein and RNA Synthesis. The Danish Biochemical Society, Vejle, Denmark, 1976.
12. Majumdar APN, and Goltermann N: Effect of Gastrin on Protein Synthesis by Gastric Mucosal Ribosomes. Endocrinology 77, London, England, 1977.
13. Majumdar APN: Tryptophan Induction of Hepatic RNA-Polymerases at Different Stages of Development. 11th Meeting of the Eur. Fed. of Biol. Sci. (FEBS, Abs. No. B3-5), Copenhagen, Denmark, 1977.
14. Majumdar APN, and Nakhla AM: Effect of Serotonin on Protein Synthesis in the Stomach and Serum Gastrin Concentration in Rats. In: Second International Symposium on Gastrointestinal Hormones, Norway, 1978, Scandinavian Journal of Gastroenterology, 13:132, 1978.

15. Majumdar APN, and Goltermann N: Effect of Gastrin G-17 on Colonic Mucosal Ribosomes and Protein Synthesis. Symposium on Gastrin and the Vagus, Aarhus, Denmark, 1978.
16. Majumdar APN, and Goltermann N: Protein Synthesis in the Gastric Mucosa of Fasted rabbits. Symposium on Secretory Mechanisms, Guilford, Surrey, England, 1978.
17. Majumdar APN, and Goltermann N: Changes in Responsiveness of the Rat Gut and Pancreas During Development to Gastrin on DNA Synthesis. Third International Symposium on Gastrointestinal Hormones, Cambridge, England, 1980. In: Regulatory Peptides, 1 (Suppl. 1):s79, 1980.
18. Majumdar APN, and Johnson LR: Changes in Gastric Mucosal Cell Proliferation at Various Stages of Development in Rats. American Gastroenterological Association (AGA), New York, 1981: In: Gastroenterology 80(5):1222, 1980.
19. Majumdar APN: Gastrin Stimulation of Gastric Mucosal Protein Synthesis. Fourth International Symposium on Gastrointestinal Hormones, Stockholm, Sweden, 1982. In: Regulatory Peptides, Suppl. 2, S1-204, 1983.
20. Majumdar APN, Guthrie P, and Johnson LR: Measurement of Epidermal Growth Factor Levels in Rat Serum Under Different Physiological Conditions. Fourth International Symposium on Gastrointestinal Hormones, Stockholm, Sweden, 1982. In: Regulatory Peptides, Suppl. 2, 1983.
21. Majumdar APN: Role of Tryptophan in Maintaining the Structural and Functional Properties of Gastrointestinal Mucosa. International Conference on Diet and Nutrition, Tel Aviv, Israel, 1983.
22. Majumdar APN: Tryptophan Requirement for Gastrointestinal Mucosal Growth and Function. International Study Group for Tryptophan Research (ISTRY), 4th Meeting of Tryptophan Metabolism, Interlaken, Switzerland, 1983.
23. Majumdar APN: Hormonal Regulation of Gastric Mucosal Growth and Function During Development. International Workshop on Drugs, Hormones, Integrity and Structure of Gastric Mucosa. Interlaken, Switzerland, 1983.
24. Majumdar APN: Nutritional and Hormonal Regulation of Gastrin Development. Fifty-second Meeting of the Swiss Gastroenterological Society, Interlaken, Switzerland, 1983.
25. Majumdar APN, Davis GA, Dubick MA, and Geokas MC: Nicotine Stimulation of Protein Secretion in Isolated Pancreatic Acini. American Gastroenterological Association (AGA), New Orleans, 1984. Gastroenterology, 85:117;2, 1984.
26. Majumdar APN, Davis GA, Dubick MA, and Geokas MC: Effect of Acetaldehyde (ACT) Administration on Protein Secretion from Isolated Pancreatic Acini in Rats. American Physiological Society Meeting, Lexington, Kentucky, 1984. In: Physiologist 27(4):279, 1984.
27. Geokas MC, Dubick MA, Davis GA, and Majumdar APN: Effect of Nicotine on the Synthesis and Secretion of Proteins in Isolated Rat Pancreatic Acini. American Physiological Society Meeting, Lexington, Kentucky, 1984. In: Physiologist 27(4):279, 1984.
28. Majumdar APN: Nutritional and Hormonal Regulation of Gastrin Development. Fifth International

- Symposium on Gastrointestinal Hormones. Rochester, Minnesota, 1984. In: Digestive Diseases and Sciences 29(8):51S, 1984.
29. Majumdar APN: Effect of Epidermal Growth Factor on Growth and Function of the Gut in Undernourished Young Rats. Fifth International Symposium on Gastrointestinal Hormones. Rochester, Minnesota, 1984. In: Digestive Diseases and Sciences 29(8):50S, 1984.
 30. Kaysen GA, Majumdar APN, Dubick MA, Davis GA, Mar G, and Geokas MC: Effect of Mild Chronic Renal Failure on the Structural and Functional Properties of the Pancreas. American Society of Nephrology, Washington, DC, 1984.
 31. Geokas MC, Dubick MA, Mar G, McMahon MJ, Mayer AD, Contreas CN, and Majumdar APN: Circulating Enzyme Levels in Patients with Acute Pancreatitis. American Federation of Clinical Research (Western Section), Carmel, California. In: Clinical Research 33:33A, 1985.
 32. Dubick MA, Geokas MC, Billy HT, Contreas CN, and Majumdar APN: Circulating Enzymes in Cigarette Smokers Following Secretion Administration. American Federation of Clinical Research (Western Section), Carmel, California. In: Clinical Research 33:33A, 1985.
 33. Majumdar APN, Vesenka GD, Haiman M, Zylbert B, Billy HT, and Geokas MC: Effect of Acetaldehyde on Protein Synthesis in Isolated Rat Pancreatic Acini. FASEB, Anaheim, California. In: Federation Proceedings 44(5):1482, 1985.
 34. Vesenka GD, Majumdar APN, Geokas MC, Dubick MA, and Silva J Jr.: Effect of Toxin A from Clostridium Difficile on Protein Synthesis in Isolated Pancreatic Acini. FASEB, Anaheim, California. In: Federation Proceedings 44(5):527, 1985.
 35. Dubick MA, Majumdar APN, Vesenka GD, and Geokas MC: Effect of Acetaldehyde on Secretagogue-Induced Enzyme Secretion from Isolated Rat Pancreatic Acini. FASEB, Anaheim, California. In: Federation Proceedings 44(5):1484, 1985.
 36. Majumdar APN, Vesenka GD, Dubick MA, Mar G, and Geokas MC: Differential Effects of Cholecystokinin-Octapeptide (CCK) on the Synthesis and Secretion of Proteins in Isolated Rat Pancreatic Acini. American Gastroenterological Association, New York City, 1985. In: Gastroenterology 88(5):1478, 1985.
 37. Dubick MA, Geokas MC, Mar G, Majumdar APN, McMahon MJ, and Mayer AD: Digestive Enzymes and Protease Inhibitors in Ascites Fluid from Patients with Acute Pancreatitis. American Gastroenterological Association, New York City, 1985. In: Gastroenterology 88(5):1370, 1985.
 38. Dubick MA, Hunter GC, Perez-Lizano E, Majumdar APN, and Geokas MC: Involvement of Pancreatic Proteases in Human Abdominal Aortic Aneurysms. American Federation of Clinical Research, Carmel, California, 1986. In: Clinical Research 34:28A, 1986.
 39. Majumdar APN, Vesenka GD, Dubick MA, and Geokas MC: Evaluation of the Mechanism of Nicotine-Induced Protein Secretion from Isolated Pancreatic Acini. American Gastroenterological Association Meeting, San Francisco, California, May, 1986. Gastroenterology 90:1531, 1986.
 40. Contreas CN, Demorrow J, and Majumdar APN: Effects of Gastrin, Somatostatin and Epidermal Growth

Factor (EGF) on DNA Synthesis in IEC Cells in Culture. American Gastroenterological Association Meeting, San Francisco, California, May, 1986. *Gastroenterology* 90:1397, 1986.

41. Dubick MA, Aspary KE, Mar G, Majumdar APN, Mayer AD, and Geokas MC: Intraperitoneal Trasylol Lavage in Patients with Acute Pancreatitis: Levels of Pancreatic Enzymes and Protease Inhibitors. American Gastroenterological Association Meeting, San Francisco, California, May, 1986. *Gastroenterology* 90:1399, 1986.
42. Majumdar APN, Dubick MA, Vesenska GD, and Geokas MC: Inhibition of Pancreatic Enzyme Secretion in Rats Fed Caffeine. Triennial Joint Meeting of the American Institute of Nutrition, American Society of Clinical Nutrition and Canadian Society for Nutritional Sciences, Davis, California, July, 1986. In: *American Journal of Clinical Nutrition* 43(6):83, 1986.
43. Dubick MA, Majumdar APN, Kaysen GA, and Geokas MC: Responsiveness of Pancreatic Enzymes to High Dietary Protein in Normal Rats. Triennial Joint Meeting of the American Institute of Nutrition, American Society of Clinical Nutrition and Canadian Society for Nutritional Sciences, Davis, California, July, 1986. In: *American Journal of Clinical Nutrition* 43(6):46, 1986.
44. Majumdar APN, Vesneka GD, and Dubick MA: Acceleration of Pancreatic Growth by Cholecystokinin. Sixth International Symposium on GI Hormones, Vancouver, Canada, July, 1986. In: *Canadian Journal of Physiology and Pharmacology*, 64(Suppl), 1986.
45. Majumdar APN, Vesenska GD, and Dubick MA: Epidermal Growth Factor (EGF) Stimulation of Lung Proliferation During Postnatal Development in Rats. Sixth International Symposium on GI Hormones, Vancouver, Canada, July, 1986. In: *Canadian Journal of Physiology and Pharmacology*, 64(Suppl):56, 1986.
46. Edgerton EA, and Majumdar APN: Gastrin Induction of Protein Synthesis in Isolated Gastric Mucosal Cells. American Gastroenterological Association, Chicago, May 10-13, 1987. In: *Gastroenterology*, 92:2060, 1987.
47. Majumdar APN, Edgerton EA, Dayal Y, and Murthy SNS: Aging: Effect of Gastrin on Gastric and Colonic Mucosal Growth. American Gastroenterological Association, Chicago, May 10-13, 1987. In: *Gastroenterology*, 92:1514, 1987.
48. Contreas CN, McMorrow B, and Majumdar APN: Study of Receptors for Epidermal Growth Factor in IEC-6 Cells in Culture. American Gastroenterological Association, Chicago, May 10-13, 1987. In: *Gastroenterology*, 92:2059, 1987.
49. Majumdar APN, Edgerton EA, and Moshier JA: Changes in Gastric Mucosal Proliferation Activity and Membrane Phosphorylation During Aging and Effects of EGF. FASEB Summer Research Conferences, Copper Mountain, Colorado, July, 1987.
50. Dubick MA, and Majumdar APN: Changes in Pancreatic Function in Copper-deficient Rats. Trace Elements in Man and Animals, Monterey, California, June 1987.
51. Arlow FL, Edgerton EA, and Majumdar APN: The Influence of Epidermal Growth Factor on the Aging Colon. Fifty-second Annual Scientific Meeting of the American College of Gastroenterology, Dallas, October 26-28, 1987. In: *Am. J. Gastroenterol.* 82:962, 1987.

52. Wong RKH, Maydonovitch CL, Majumdar APN, Wahby M, Glass A, Anderson J, and Luk G: Effect of Castration and Estradiol on Hemorinagic Gastritis (HG) and Gastric Mucosal Cellular Proliferation (CP) in Male Rats. American Gastroenterological Association, New Orleans, May 14-18, 1988. In: *Gastroenterology*, 94:A318, 1988.
53. Murthy SNS, Dayal Y, Edgerton EA, and Majumdar APN: Influence of Epidermal Growth Factor (EGF) on Antral Gastrin and Somatostatin Cell Populations. American Gastroenterological Association, New Orleans, May 14-18, 1988. In: *Gastroenterology*, 94:A318, 1988.
54. Majumdar APN, Maitra R, and Edgerton EA: Gastric Secretion During Aging and Effects of Pentagastrin (PG). American Gastroenterological Association. In: *Gastroenterology* 94:A278, 1988.
55. Majumdar APN, Moshier JA, Edgerton EA, Arlow FL, Walczak SM, and Luk GD: Aging and Gastric Mucosal Regeneration: Biochemical and Molecular Events. American Gastroenterological Association, New Orleans, May 14-18, 1988. In: *Gastroenterology* 94:A278, 1988.
56. Elitsur Y, Majumdar APN, and Luk GD: Epidermal Growth Factor (EGF) Suppression of DNA Synthesis in Human Colonic Lamina Propria Lymphocytes (LPL). American Gastroenterological Association, New Orleans, May 14-18, 1988. In: *Gastroenterology* 94:A112, 1988.
57. Edgerton EA, Arlow FL, and Majumdar APN: Aging: Relationship Between Gastric Mucosal Proliferation and Tyrosine Kinase Activity in Rats. American Gastroenterological Association, New Orleans, May 14-18, 1988. In: *Gastroenterology* 94:A110, 1988.
58. Contreas CN, McMorrow B, and Majumdar APN: Modulation of EGF-receptors on IEC-6 Cells by Insulin. American Gastroenterological Association, New Orleans, May 14-18, 1988. *Gastroenterology* 94:A76, 1988.
59. Arlow FL, Walczak SM, Edgerton EA, and Majumdar APN: Gastrin Induction of Colonic Mucosal Proliferation after Deoxycholic Acid Injury. American Gastroenterological Association. New Orleans, May 14-18. *Gastroenterology*, 94:A12, 1988.
60. Arlow FL, Walczak SM, and Majumdar APN: The Role of Calcium in Deoxycholic Acid-induced Hyperproliferation of Colonic Mucosal Explants. American Gastroenterological Association. New Orleans, May 14-18, 1988. In: *Gastroenterology* 94:A12, 1988.
61. Arlow FL, Moshier JF, and Majumdar APN: Gastrin Induction of Ornithine Decarboxylase (ODC) Activity and Expression of ODC gene in Colonic Mucosal Explants in Organ Culture. American Gastroenterological Association, Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A14, 1989.
62. Arlow FL, Walczak S, and Majumdar APN: Attenuation of Azoxymethane (AOM)- Induced Colonic Mucosal Ornithine Decarboxylase (ODC) and Tyrosine Kinase (Tyr-k) Activity by Calcium in Rats. American Gastroenterological Association, Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A14, 1989.
63. Colarian J, Arlow FL, Calzada R, Luk GD, and Majumdar APN: Differential Activation of Ornithine Decarboxylase (ODC) and Tyrosine Kinase (Tyr-k) in the Rectal Mucosa of Patients with Hyperplastic (HP) and Adenomatous Polyps (AP). American Gastroenterological Association, Washington, DC, May 13-17. In: *Gastroenterology* 96:A93, 1989.

64. Dubick MA, and Majumdar APN: Activity and mRNA Levels of Pancreatic Digestive Enzymes: Effects of Aging and Gastrin. American Gastroenterological Association, Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A130, 1989.
65. Jaszewski R, and Majumdar APN: Changes in the Profile of Tyrosine Specific Phosphorylation of Mucosal Proteins in Ulcerative Colitis (UC) and Crohn's Disease (CD). American Gastroenterological Association. Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A238, 1989.
66. Lin EH, Moshier JA, Majumdar APN, Gilbert JD, Skunca M, and Luk GD. Thyroxine Induces Exocrine Pancreatic Enzyme Gene Expression in Developing Rats. American Gastroenterological Association. Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A303, 1989.
67. Majumdar APN, and Arlow FL: Gastric Mucosal Tyrosine Kinase (Tyr-k) and Proliferative Activity During Advancing Age and Effect of Epidermal Growth Factor (EGF). American Gastroenterological Association, Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A314, 1989.
68. Wahby M, Shelef LA, and Majumdar APN: Induction of GI Mucosal Cell Proliferation by the Pesticide Captan: Role of Tyrosine Kinases. American Gastroenterological Association, Washington, DC, May 13-17, 1989. In: *Gastroenterology* 96:A696, 1989.
69. Wahby M, Shelef LA, and Majumdar APN: Induction of Gastric Mucosal Cell Proliferation by the Pesticide Captan: Role of Tyrosine Kinases. FASEB Meeting, March 19-23, 1989. In: *FASEB Journal* 3(4):A923, 1989.
70. Majumdar APN, Yu GSM, and Dubick MA: Alterations in Pancreatic Structure and Function in the Copper-Deficient Rat. FASEB Meeting, New Orleans, March 19-23, 1989. In: *FASEB Journal* 3(3):A359, 1989.
71. Dubaybo BA, and Majumdar APN: Tyrosine Kinase Activity in Lung Repair: Evidence for Tyrosine Phosphorylation of 4 Distinct Substrates. *Clin. Res.* 37:24A, 1989.
72. Arlow FL, Walczak SM, and Majumdar APN: Inhibition of Azoxymethane-induced Colonic Mucosal Ornithine Decarboxylase and Tyrosine Kinase Activity by the Calmodulin Antagonist Trifluoperazine. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A270, 1990.
73. Colarian J, Jaszewski R, Arlow F, Lans J, Luk GD, and Majumdar APN: Mucosal Tyrosine Kinase Activity in Patients with Colorectal Adenomas and Adenocarcinomas. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A276, 1990.
74. Jaszewski R, Katta S, Tureaud J, Bhate G, and Majumdar APN: Mucosal Ornithine Decarboxylase (ODC) and Tyrosine Kinase (Tyr-k) Activity in the Postgastrectomy Stomach. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A288, 1990.
75. Lans J, Jaszewski R, Arlow F, Tureaud J, Colarian J, Luk GD, and Majumdar APN: Supplemental Calcium Suppresses Colonic Mucosal Ornithine Decarboxylase (ODC) Activity in Elderly Patients with Adenomatous Polyps (AP). American Gastroenterological Association, San Antonio, TX, May 12-16,

- 1990: In: *Gastroenterology* 98(5):A292, 1990.
76. Dubick MA, Morrill PR, and Majumdar APN: Aging: Effect of Phorbol Ester Administration on Pancreatic Enzymes in Rats. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A410, 1990.
 77. Dubick MA, Pfeiffer JW, and Majumdar APN: Effects of Epidermal Growth Factor on Enzyme Activity in Rat Small Intestine During Aging. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A410, 1990.
 78. Lans J, Tureaud J, Luk GD, and Majumdar APN: Aging: Role of Tyrosine Kinases (Tyr-k) in N-Methyl-Nitro-N-Nitroguanidine (MNNG) Induction of Gastric Mucosal Ornithine Decarboxylase (ODC). American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A419, 1990.
 79. Majumdar APN: Gastric Mucosal Injury and Aging: Role of Tyrosine Kinases (Tyr-k) and Epidermal Growth Factor Receptor (EGF-R) in Mucosal Cell Proliferation. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A422, 1990.
 80. Tureaud J, and Majumdar APN: Phorbol Ester Induced Changes in Colonic Mucosal Tyrosine Kinases (Tyr-k) and Epidermal Growth Factor Receptor (EGF-R) during aging. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A434, 1990.
 81. Wahby M, Luk GD, Shelef LA, and Majumdar APN: Evaluation of Intracellular Events in Captan Induction of Gastric Mucosal Cell Proliferation During Aging. American Gastroenterological Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A671, 1990.
 82. Wahby M, Luk GD, Shelef LA, and Majumdar APN: Role of Tyrosine Kinases (Tyr-k) and Epidermal Growth Factor Receptor (EGF-R) in Captan Induction of Gastric Mucosal Cell Proliferation. Am. Gastro. Association, San Antonio, TX, May 12-16, 1990: In: *Gastroenterology* 98(5):A671, 1990.
 83. Nensey YM, Arlow FL, and Majumdar APN: Aging: Increased Responsiveness of Colorectal Mucosa to Carcinogen Stimulation and the Protective Role of Folic Acid. *Gastroenterology* 100:A390, 1991.
 84. Fligel SEG, Hatfield JS, and Majumdar APN: Immunohistochemical Evaluation of c-myc and Epidermal Growth Factor Receptor (EGF-R) in the Colonic Epithelium of Aging Rats. *Gastroenterology* 100:A522, 1991.
 85. Madhok D, Moshier JA, Luk GD, and Majumdar APN: Differential Expression of c-myc and Epidermal Growth Factor Receptor (EGF-R) Genes in the Gastric Mucosa During Aging. *Gastroenterology* 100:A532, 1991.
 86. Majumdar APN, and Tureaud J: Differential Activation of Gastric Mucosal pp60^{c-src}, pp185^{neu} and EGF-Receptor (EGF-R) Associated Tyrosine Kinases by Bombesin in Young and Aged Rats: Relationship to Cell Proliferation. *Gastroenterology* 100:A533, 1991.
 87. Tureaud J, and Majumdar APN: Aging: Diminished Responsiveness of Gastric Mucosal Ornithine Decarboxylase (ODC) to Bombesin in vitro. *Gastroenterology* 100:A551, 1991.

88. Moshier JA, Dosesco J, Tureaud J, and Majumdar APN: Differential Activation of Tyrosine Kinases Following Transfection of ODC Gene in NIH/3T3 Cells. *Gastroenterology* 102:A381, 1992.
89. Cornell T, Moshier JA, and Majumdar APN: Expression of Protease Genes in Gastric Mucosa During Aging. *Gastroenterology* 102:A548, 1992.
90. Dubick MA, and Majumdar APN: Low Dose Bombesin-Induced Changes in Expression of Pancreatic Enzymes in Young and Aged Rats. *Gastroenterology* 102:A549, 1992.
91. Lin CH, Correia L, and Majumdar APN: Ontogeny of Small Intestinal Tyrosine Kinases (Tyr-k). *Gastroenterology* 102:A564, 1992.
92. Relan NK, and Majumdar APN: Changes in Gastric Mucosal CDC-2 Kinase During Aging and After Injury. *Gastroenterology* 102:A575, 1992.
93. Tureaud J, and Majumdar APN: Aging: Differential Activation of Tyrosine Kinases in the Gastric Mucosa by Fasting and Refeeding. *Gastroenterology* 102:A582, 1992.
94. Wahby M, and Majumdar APN: Diminished Activation of Tyrosine Kinases by Gastrin in Isolated Gastric Mucosal Cells From Aged Rats. *Gastroenterology* 102:A584, 1992.
95. Dubick MA, Cornell T, and Majumdar APN: Relationship Between Vitamin B₆ (Pyrodoxine) Status and Expression of Pancreatic Enzymes in Rats. *FASEB J.* 7:A4300, 1993.
96. Majumdar APN, Relan NK, Fligiel SEG, Tureaud J, Dutta S, and Hatfield J: Increased Expression of pp60^{c-src} in Gastric Mucosa of Aged Rats. *FASEB J.* 7:A4667, 1993.
97. Relan NK, Tureaud J, and Majumdar APN: Aging: Induction of Colonic Mucosal EGF-receptor (EGF-R) Tyrosine Kinase by EGF and TGF-alpha. *FASEB J.* 7:A4669, 1993.
98. Elitsur Y, Moshier JA, Dosesco J, Tureaud J, and Majumdar APN: Increased Ornithine Decarboxylase (ODC) and Tyrosine Kinase (Tyr) Activity in Children with Juvenile Polyyps. *Gastroenterology* 104:A397, 1993.
99. Majumdar APN, Tureaud J, Cornell T, and Relan NK: pp55, A Novel Tyrosine Kinase: Role in Gastric Mucosal Cell Proliferation. *Gastroenterology* 104:A424, 1993.
100. Meah N, Malecka-Panas E, Relan NK, and Majumdar APN: Azoxymethane (AOM) Enhances Epidermal Growth Factor (EGF)- and Transforming Growth Factor Alpha (TGF-a)-Mediated Activation of Receptor Tyrosine Kinase and Phospholipase C (PLC) in Colonic Mucosa. *Gastroenterology* 104:A426, 1993.
101. Lin CH, Correia L, Orowe S, Tolia K, Tolia V, and Majumdar APN: Glucocorticoid Induces Differential Activation of Small Intestinal Tyrosine Kinases (Tyr-k) and Phospholipase C (PLC) in Neonatal Rats. *Gastroenterology* 104:A633, 1993.
102. Oqail SM, Relan NK, and Majumdar APN: Differential Responsiveness of the Proximal and Distal Colonic Mucosa to Phorbol Ester in Young and Aged Rats. *Gastroenterology* 104:A639, 1993.
103. Relan NK, Fligiel SEG, Dutta S, Tureaud J, and Majumdar APN: Aging Diminishes Gastric Mucosal

- Regeneration: Relationship to Tyrosine Kinases. *Gastroenterology* 104:A642, 1993.
104. Relan NK, and Majumdar APN: Aging: Increased Activation of EGF-Receptor (EGF-R) Tyrosine Kinase in Colonic Mucosal Membrane by EGF and TGF- α . *Gastroenterology* 104:A642, 1993.
 105. Tureaud J, Fligiel SEG, Relan NK, Dutta S, Hatfield J, and Majumdar APN: Increased Expression of pp60^{c-src} in Gastric Mucosa of Aged Rats. *Gastroenterology* 104:A651, 1993.
 106. Jaszewski R, McGann M, Tureaud J, and Majumdar APN: Changes in the Pattern of Tyrosine Phosphorylation of Colonic Protein by Angiotensin II (AII) in Murine Schistosomiasis. *Gastroenterology* 104:A719, 1993.
 107. Majumdar APN, Tureaud J, and Relan NK: pp55, A Novel Tyrosine Kinase: Role in Gastric Mucosal Cell Proliferation During Aging. The XV in World Congress of Gerontology, Budapest, Hungary, July 4th to 9th, 1993.
 108. Malecka-Panas E, Meah N, Tureaud J, Relan NK, and Majumdar APN: Increased Activation of EGF-Receptor (EGF-R) Tyrosine Kinase (Tyr-k) and Phospholipase C (PLC) by EGF and TGF- α . *Gastroenterology* 106:A620, 1994.
 109. Relan NK, Fligiel SEG, Dutta S, Hatfield J, and Majumdar APN: Expression and Activation of EGF-Receptor Tyrosine Kinase During the Early Reparative Phase of Gastric Mucosa and Effects of Aging. *Gastroenterology* 106:A706, 1994.
 110. Jaszewski R, Ahsan A, McGann M, and Majumdar APN: Receptor Mediated Angiotensin II (A II) Inhibition of Tyrosine Specific Phosphorylation of EGF-R in Murine Granulomatous Colitis. *Gastroenterology* 106:A706, 1994.
 111. Saeed A, Relan NK, Fligiel SEG, Dutta S, Tureaud J, and Majumdar APN: Identification and Characterization of Endogenous Tyrosine Kinase (Tyr-k) in Azoxymethane (AOM) Induced Colonic Carcinogenesis. *Gastroenterology* 106:A436, 1994.
 112. Lin CH, Moshier JA, Orowe SJ, Lee PC, Luk GD, and Majumdar APN: Differential Effect of Thyroxine on Pancreatic Digestive Enzymes and Ornithine Decarboxylase (ODC) Gene Expression. *Gastroenterology* 106:A303, 1994.
 113. Majumdar APN, Tureaud J, Relan NK, Kessel A, Moshier J, Choudhuri S, Fligiel SEG, and Chelludurai B: pp55, A Novel Tyrosine Kinase: Characterization and Significance in GI Mucosal Cell Proliferation. *Gastroenterology* 106:A411, 1994.
 114. Majumdar APN, Tureaud J, Relan NK, Kessel A, Moshier J, Choudhuri S, Fligiel SEG, and Chelludurai B: pp55, A Novel Tyrosine Kinase: Characterization and Significance in GI Mucosal Cell Proliferation. *Gastroenterology* A-586, 1994.
 115. Moshier JA, Malecka-Panas E, Tureaud J, Dosesescu J, Relan NK, Skunca M, and Majumdar APN: Overexpression of Ornithine Decarboxylase in NIH/3T3 Cells Activates EGF-Receptor Tyrosine Kinase. *Gastroenterology* 106:A417, 1994.
 116. Moshier JA, Malecka-Panas E, Tureaud J, Dosesescu J, Relan NK, Skunca M, and Majumdar APN:

Overexpression of Ornithine Decarboxylase in NIH/3T3 Cells Activates EGF-Receptor Tyrosine Kinase. *Gastroenterology* A-305, 1994.

117. Malecka-Panas E, Meah N, Tureaud J, Relan NK, and Majumdar APN: Increased Activation of EGF-Receptor (EGF-R) Tyrosine Kinase (Tyr-k) and Phospholipase C (PLC) by EGF and TGF-". *Dig Dis Sci* 39:A80, 1994.
118. Relan NK, Matta RR, Majumdar APN: Increased Translocation of pp60^{c-src} from Plasma Membrane to Cytosol by TGF-" During The Early Reparative Phase of Gastric Mucosa and Effects of Aging. *Gastroenterology* 108:A201, 1995.
119. Majumdar APN, Moshier JA, Tureaud J, Relan NK, Chelludurai B: Characterization and Significance of pp55, A Novel Tyrosine Kinase. *Gastroenterology* 108:A502, 1995.
120. Ponduri K, Majumdar APN: Activation of EGF-receptor Tyrosine Kinase (Tyr-K) and increased synthesis and secretion of TGF-" in Azoxymethane-Induced Colonic Carcinogenesis. *Gastroenterology* 108:A526, 1995.
121. Lin CH, Brownell X, Zhu R, Rao R, Tolia V, Majumdar APN: Differential Expression of Intestinal Epidermal Growth Factor-Receptor and pp60^{c-src} Tyrosine Kinases During Postnatal Development. *Gastroenterology* 108:A986, 1995.
122. Malecka-Panas E, Tureaud J, Liberski PP, Majumdar APN: Differential Activation of Total and EGF Receptor (EGF-R) Tyrosine Kinase (Tyr-K) in the Rectal Mucosa in Patients with Adenomatous Polyp (A.P.), Ulcerative Colitis (U.C.) and Colon Cancer (C.C.). *Gastroenterology* 108:A987, 1995.
123. Fligel SEG, Malecka-Panas E, Majumdar APN: Differential Responsiveness of Proximal and Distal Colonic Mucosa of Rats of the Trophic Action of Gastrin. 96th Annual Meeting of the American Gastrointestinal Association, San Francisco, CA. *Gastroenterology* 110:A801, 1996.
124. Majumdar APN, Fligel SEG, Tureaud J: Aging Enhances Gastric Mucosal Sensitivity to EGF and TGF- α : 96th Annual Meeting of the American Gastrointestinal Association, San Francisco, CA. *Gastroenterology* 110:A819, 1996.
125. Majumdar APN, Fligel SEG, Jaszewski R, Tureaud J: Inhibition of Gastric Mucosal Regeneration by Tyrphostin: Evaluation of the Role of EGF-receptor (EGF-R) Tyrosine Kinase (Tyr-k). 96th Annual Meeting of the American Gastrointestinal Association, San Francisco, CA. *Gastroenterology* 110:A183, 1996.
126. Majumdar APN, Fligel SEG, Tureaud J: Aging Enhances Gastric Mucosal Sensitivity to EGF and TGF- α : *Experimental Biology* 96, Washington, D.C. *The FASEB Journal*, 10:4456, 1996.
127. Majumdar APN, Fligel SEG, Tureaud J: Aging Enhances Gastric Mucosal Sensitivity to EGF and TGF- α : 11th International Symposium on Regulatory Peptides, Copenhagen, Denmark. *Regulatory Peptides* 64: 118, 1996.
128. Majumdar APN, Malecka-Panas E and Fligel, SEG. Differential Responsiveness of Proximal and Distal Colonic Mucosa to the Trophic Action of Gastrin. 11th International Symposium on Regulatory Peptides, Copenhagen, Denmark. *Regulatory Peptides* 64: 118, 1996.

129. Kulkarni S, Tureaud J, Fligiel SEG, Majumdar APN: Age-related Changes in EGF-Receptor (EGF-R) expression During Mucosal Repair after Injury. 97th Annual Meeting of the American Gastrointestinal Association, Washington, D.C., Gastroenterology 112: A186, 1997.
130. Majumdar APN, SEG Fligiel, Hatfield JA, Tureaud J, Goldenring J: Localization and Significance of pp55, a Gastric Mucosal Membrane Protein with Tyrosine Kinase. 97th Annual Meeting of the American Gastrointestinal Association, Washington, D.C., Gastroenterology 112: A 608, 1997.
131. Jaszewski R, Mahakala K, Novak J, Fligiel SEG, Majumdar APN, Aging Enhances Colonic Mucosal Susceptibility to Carcinogens. 97th Annual Meeting of the American Gastrointestinal Association, Washington, D.C., Gastroenterology 112: A 881 1997.
132. Tureaud J, Kulkarni S, Sarkar F, Reddy K, Majumdar APN, Increased Expression of EGF-Receptor (EGF-R) and p185^{c-erbB-2} in the Gastric Mucosa of Aged Rats. 97th Annual Meeting of the American Gastrointestinal Association, Washington, D.C., Gastroenterology 112: A 912, 1997.
133. Malecka-Panas E, Fligiel EG, Tureaud J, Jaszewski R, Majumdar APN: Differential Responsiveness of Colonocytes Isolated from Proximal and Distal Colon to Gastrin. Gut 41 (Supplement 3): A45, 1997.
134. Dubick MA, Sondeen JL, Majumdar APN: Increased Expression of the EGF-receptor (EGF-R) in Small Intestine from Rabbits Subjected to Hemorrhage (H) and Renal Ischemia/Reperfusion (I/R). Experimental Biology 1998, San Francisco; FASEB J. 12: A171, 1998.
135. Boppana SB, Liu L, Khan A, Mahakala K, Jaszewski R, Majumdar APN: Folic Acid: A Potential Chemopreventive Agent Against Gastric and Colon Cancers. Experimental Biology 1998, San Francisco; FASEB J. 12: A4707, 1998.
136. Khan A, Liu L, Yu Y and Majumdar APN: Diabetes: Induction of EGFR Tyrosine Kinase activity in the Gastric Mucosa. 99th Annual Meeting of the American Gastroenterological Association, New Orleans, LA. Gastroenterology 114: A174, 1998.
137. Liu L, Turner J, Yu Y, Khan A, Fligiel SEG and Majumdar APN: Differential Expression of EGF-Receptor During the Early Reparative Phase Between Young and Aged Rats. 99th Annual Meeting of the American Gastroenterological Association, New Orleans, LA. Gastroenterology 114: A205, 1998.
138. Boppana SB, Sarkar FH, Liu L, Li Y-W, Khan A, Kucuk K, Mahakala K, Jaszewski R and Majumdar APN: Folic Acid: Regulation of Growth of Colon and Gastric Cancer Cell Lines. 99th Annual Meeting of the American Gastroenterological Association, New Orleans, LA. Gastroenterology 114: A567, 1998.
139. Yu Y, Moshier JA, Kulkarni S, Khan A, Jaszewski R, Liu L and Majumdar APN: Isolation and Characterization of EGFR-Related (ERP) cDNA from Rat Gastric Mucosa. 99th Annual Meeting of the American Gastroenterological Association, New Orleans, LA. Gastroenterology 114: A1195, 1998.
140. Khan A, Jaszewski R, Sarkar FH, Kucuk O, Ravishankar P, and Majumdar APN: Regulation of Folic Acid Induced Inhibition of CaCo-2 Cell Proliferation. 100th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. Gastroenterology 116: A1913, 1999.

141. Liu, L, Khan A, Jaszewski R and Majumdar APN: Aging Enhances Ligand-Induced Internalization of EGF-Receptor (EGFR) in the Gastric Mucosa. 100th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 116: A2469, 1999.
142. Yu Y, Moshier JA, Siddiq F, and Majumdar APN: Cloning of a Novel EGFR-Related Peptide (ERRP): A Putative Negative Regulator of EGFR. 100th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 116: A2865, 1999.
143. Yu Y, Xiao Z-Q, Rishi A, and Majumdar APN: Regulation of ERRP Induced Inhibition of Proliferation in HCT-116 Colon Cancer Cell Line. 101st Annual Meeting of the American Gastroenterological Association (AGA), San Diego, CA. *Gastroenterology* 118: A2847, 2000.
144. Xiao Z-Q, Fligel SEG, Hatfield J, Jaszewski R, and Majumdar APN: Aging is Associated With Increased Proliferation and Decreased Apoptosis in the Colonic Mucosa. 101st Annual Meeting of the American Gastroenterological Association (AGA), San Diego, CA. *Gastroenterology* 118: A2868, 2000.
145. Xiao Z-Q, and Majumdar APN: Induction of Transcriptional Activity of AP-1 and NF- κ B in the Gastric Mucosa During Aging. 101st Annual Meeting of the American Gastroenterological Association (AGA), San Diego, CA. *Gastroenterology* 118: A2872, 2000.
145. Yu Y, Rishi AK, Turner JR, Majumdar APN: Inhibition of Epithelial Cancers by ERRP: A Novel Negative Modulators of EGFR. MidWest Gut Club, Chicago, March, 2001.
146. Moragoda L, Jaszewski R, Kulkarni P, Rishi A, Majumdar APN: Age-associated Changes in LOH in p53 and DCC Genes in Gastric Mucosa. Experimental Biology Meeting 2001, Orlando, Florida. *FASEB J* 15: A 632.3, 2001.
147. Moragoda L, Jaszewski R, Majumdar APN: Curcumin Induced of Cell Cycle and Apoptosis in Gastric And Colon Cancer Cells. 102nd Annual Meeting of the American Gastroenterological Association (AGA), Atlanta, GA. *Gastroenterology* 120: A3605, 2001.
148. Xiao Z-Q, Majumdar APN: Enhanced TGF- α Mediated Activation of AP1 in the Aging Mucosa. 102nd Annual Meeting of the American Gastroenterological Association (AGA), Atlanta, GA. *Gastroenterology* 120: A3634, 2001.
148. Moragoda L, Jaszewski R, Kulkarni P. Majumdar APN: Age-associated Changes in LOH in p53 and DCC Genes in Gastric Mucosa. 102nd Annual Meeting of the American Gastroenterological Association (AGA), Atlanta, GA. *Gastroenterology* 120: A3638, 2001.
149. Yu Y, Rishi AK, Moragoda L, Xiao Z-Q, Majumdar APN: Inhibition of Epithelial Cancers by ERRP: A Novel Negative Regulator of EGFR. International Conference on New Anticancer Agents, Athens, Greece, June 9-12, 2001. *Anticancer Res.* 21 (Number 3A): 151, 2001.
150. Feng J, Pernick NL, Majumdar A, Sarkar FH, Adsay NV: Expression of ERRP in Normal and Neoplastic Pancreata and its Relationship to Clinicopathological Parameters in Pancreatic Adenocarcinoma. Annual Meeting of the United States and Canadian Academy of Pathology, Chicago, IL, February 1-March 23, 2002. *Modern Pathol.* 51(1): A1180, 2002.
151. Moragoda L, Yu Y, Rishi AK, Xiao Z-Q, Majumdar APN: Inhibition of EGFR Activation and Cell

- Proliferation by ERRP: A Negative Regulator of EGFR. 103rd Annual Meeting of the American Gastroenterological Association (AGA), San Francisco, CA. *Gastroenterology* 122: S852, 2002.
152. Rizk MK, Finkenauer R, Nagothu KK, Basson MD, Majumdar APN: Differentiation-dependent Expression of EGFR Related Protein (ERRP) in Caco-2 Cells and Colonic and Pancreatic Cancers. 103rd Annual Meeting of the American Gastroenterological Association (AGA), San Francisco, CA. *Gastroenterology* 122: S921, 2002.
 153. Nagothu K, Jaszewski R, Moragoda L, Rishi KK, Majumdar APN: Folic Acid Mediated Prevention of Loss of Heterozygosity of Tumor Suppressor Genes in Colorectal Adenomas. 103rd Annual Meeting of the American Gastroenterological Association (AGA), San Francisco, CA. *Gastroenterology* 122: S1365, 2002.
 154. Schmelz EM, Nagothu K, Sarkar FH, Rishi AK, Majumdar APN: Expression of ERRP Inversely Correlates with EGFR During Aging and Carcinogenesis in Gastrointestinal Tumors. 103rd Annual Meeting of the American Gastroenterological Association (AGA), San Francisco, CA. *Gastroenterology* 122: T890, 2002.
 155. Moragoda, L, Mohammad, R, Rishi AK, Majumdar APN: Inhibition of EGFR Activation, Proliferation and Tumor Growth by ERRP: A Novel Negative Regulator of EGFR. 14th International Symposium on Regulatory Peptides., Boston, MA, August 31-September 3, 2002. *Regulatory Peptides* 108: P-17, 2002.
 156. Nagothu KK, Moragoda L, Rishi AK, Jaszewski J, Majumdar APN: Folic Acid Mediated Prevention of LOH of Tumor Suppressor Genes in Colorectal Adenomas. Experimental Biology Meeting 2002, New Orleans, Louisiana. *FASEB J* 16: A789, 2002.
 157. Majumdar APN, Du J, Nagothu KK, Hatfield J, Levi E, Adsay V, Schmelz EM, Rishi AK, Jaszewski R, Sarkar FH, Kucuk O: Regulation of EGF-receptor (EGFR) in the gastric mucosa during aging and Carcinogenesis. 94th Annual Meeting of the American Association for Cancer Research, July 11-14, 2003, Washington DC. *Proc. Am. Asso. Cancer Res.* 14 (2nd Volume): Abst # 4980 (p. 994), 2003.
 158. Majumdar APN, Mohammad R, Moragoda L, Yu Y, Aboukameel A, Adsay V, Rishi AK, Sarkar FH: EGF-Receptor Related Protein (ERRP): A Potential therapeutic Agent for Colorectal Cancers. 94th Annual Meeting of the American Association for Cancer Research, July 11-14, 2003, Washington DC. *Proc. Am. Asso. Cancer Res.* 14 (2nd Volume): Abst # 4009 (p. 801), 2003.
 159. Marciniak D, Mohammad R, Moragoda L, Yu Y, Aboukameel A, Adsay V, Rishi AK, Sarkar FH: EGF-Receptor Related Protein (ERRP): A Potential Therapeutic Agent for Colorectal and Prostate Cancers. 104th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 124: S989, 2003
 160. Jaszewski R, Miller B, Hatfield J, Nagothu KK, Finkenauer R, Adsay V, Rishi AK, Majumdar APN: 104th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 124: S1661 (A-241), 2003
 161. Majumdar APN, Du J, Nagothu KK, Hatfield J, Levi E, Adsay V, Schmelz EM, Rishi AK, Jaszewski R, Kucuk O, Majumdar APN: Regulation of EGF-Receptor (EGFR) in the Gastric Mucosa During Aging and Carcinogenesis. 104th Annual Meeting of the American Gastroenterological Association (AGA),

- Orlando, FL. *Gastroenterology* 124: M915 (A-273), 2003.
162. Nagothu KK, Rishi AK, Jaszewski R, Majumdar APN: Folic Acid Inhibits Serum-Induced Activation of Receptor (EGFR) Promoter in Colon Cancer Cells. 104th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 124: M951 (A-281), 2003.
 163. Durko L, Sanders MA, Majumdar APN, Basson M: Role of EGFR Related Protein (ERRP) in Gut Epithelial Motility and Differentiation. 104th Annual Meeting of the American Gastroenterological Association (AGA), Orlando, FL. *Gastroenterology* 124: W931 (A-596), 2003.
 164. Majumdar APN: Regulation of Gastric Mucosal Growth and Function During Aging. 2nd International Conference on Gut Brain Axis. Cracow, Poland, November 1-16, 2003.
 165. Schmelz EM, Levi E, Majumdar APN: Loss of Expression of the EGF-Receptor Related Protein (ERRP) Is a Common Event in Different Models of Colon Cancer. 105th Annual Meeting of the American Gastroenterological Association (AGA), New Orleans, LA. *Gastroenterology* 126: M2092 (A-395), 2004.
 166. Basson MD, Durko LM, Thamilselvan V, Zhang J, Reddy S, Majumdar APN: FAK Protein Levels Regulate Caco-2 Intestinal Epithelial Wound Closure. 105th Annual Meeting of the American Gastroenterological Association (AGA), New Orleans, LA. *Gastroenterology* 126: W1733 (A-656), 2004.
 167. Rizk M, Leung K, Khare S, Bissonnetee BM, Majumdar A, Carroll R: Absence of a Chemopreventive Effect of Folate in an AOM Mouse Model. 105th Annual Meeting of the American Gastroenterological Association (AGA), New Orleans, LA. *Gastroenterology* 126: W1748 (A-659), 2004.
 168. Kodali U, Jaszewski R, Majumdar APN: Butyrate Sensitization of Gastric and Colon Cancer Cells to the Growth Inhibitory Effect of EGF-Receptor Related Protein (ERRP). 105th Annual Meeting of the American Gastroenterological Association (AGA), New Orleans, LA. *Gastroenterology* 126: T973 (A-407), 2004.
 169. Levi E, Mohammad R, Kodali U, Marciniak D, Jaszewski R, Sochacki P, Siddiq F, Wali A, Rishi A, Majumdar APN: EGF-Receptor Related Peptide (ERRP) Is Down-regulated in Colon Cancer, and Is a Potential Therapeutic Agent for Colorectal Cancer. 7th International Conference of Anticancer Research, Corfu, Greece, October 25-30, 2004. *Anticancer Research* 24 (5D): 3556, 2004.
 170. Hu Xu, Yingjie Yu, Ahmed Khan, Dorota Marciniak, Arun Rishi, Fazlul Sarkar, Omer Kucuk, Adhip P. Majumdar. EGFR-related protein (ERRP) inhibits multiple members of EGFR family in colon, lung and breast cancer cells EGFR-related protein (ERRP) inhibits multiple members of EGFR family in colon, lung and breast cancer cells (A # 5054). 96th Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 16-20, 2005
 171. Edi Levi, Liyue Zhang, Anil Wali, John Frank, James S. Hatfield, Joseph A. Fontana, Adhip P. N. Majumdar, Arun K. Rishi. Cell cycle and apoptosis regulatory protein (CARP)-1 induces apoptosis in lymphoma cells, and its expression correlates with apoptotic rate in diffuse large B-cell lymphoma (DLBL) [A# 805]. 96th Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 16-20, 2005
 172. Liyue Zhang, Edi Levi, Anil Wali, Rajesh Amin, Michael B. Yaffe, James S. Hatfield, Joseph A. Fontana, Adhip P. N. Majumdar, Arun K. Rishi. Cell cycle and apoptosis regulatory protein (CARP)-1 mediates

apoptosis signaling by epidermal growth factor receptor (EGFR) [A# 826] 96th Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 16-20, 2005

173. Jaszewski R, Ullah N, Misra S, Tobi M, Levi E, Xu H, Majumdar APN: High dose of folic acid inhibits recurrence of colorectal adenomas. 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL. *Gastroenterology* 128: A-93, 2005.
174. Xu H, Yu Y, Khan A, Marciniak D, Rishi A, Sarkar F, Kucuk O, Majumdar APN: EGFR-related protein (ERRP) inhibits multiple members of EGFR family in colon, lung and breast cancer cells. 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL. *Gastroenterology* 128: A-78, 2005.
175. Reddy S, Marciniak DJ, Xu H, Yu Y, Kodali U, Rishi AK, Majumdar APN: Curcumin sensitizes human colon cancer cells to growth inhibition by EGF-receptor related protein (ERRP). 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL. *Gastroenterology* 128: A-298, 2005.
176. Du J, Majumdar APN: Phosphatidylinositol 3 kinase (PI3K)/Akt signaling regulates colonic mucosal apoptosis during aging. 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL. *Gastroenterology* 128: A-248, 2005.
177. Marciniak DJ, Rishi AK, Majumdar APN: A comparative study of the effects of EGF-receptor related protein (ERRP) with trastuzumab or cetuximab on apoptosis and the activity of EGFR and COX-2 in colon cancer cells. 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL. *Gastroenterology* 128: A-437, 2005.
178. **Ullah N, Duttala S, Tobi M, Majumdar APN: Racial differences in the distribution of initial and recurrent colonic adenomatous polyps among veterans. 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA. *Gastroenterology* 130: A-318, 2006.**
179. **Perez N, Maryala SB, Yu Y, Majumdar APN: Age-associated mutation of the DCC gene in patients with normal colonic mucosa. 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA. *Gastroenterology* 130: A-188, 2006.**
180. **Schmelz EM, Xu H, Du J, Rishi AK, Sarkar FH, Majumdar APN: Reversal of early stage of colorectal cancer with EGF-receptor related protein. 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA. *Gastroenterology* 130: A-132, 2006.**
181. **Reddy S, Misra S, Jaszewski R, Xu H, Levi E, Ullah N, Majumdar APN: Age-related rise in colorectal adenomas is associated with increased EGF-receptor expression. 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA. *Gastroenterology* 130: A-132, 2006.**
182. **Razumilava N, Siddiqui S, Levi E, Xu H, Ullah N, Tobi M, Jaszewski R, Majumdar APN: Regulatory mechanisms for folic acid induced recurrence of colorectal adenomas. 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA. *Gastroenterology* 130: A-132, 2006.**
183. **Schmelz E, Xu H, Du J, Rishi AK, Sarkar F, Majumdar APN: Reversal of Early Stages of Colorectal Cancer with EGF-Receptor Related Protein. 2006 World Congress on Gastrointestinal Cancer, June**

28- July 1, 2006, Barcelona, Spain. Ann. Oncol. 17 (Suppl. 6): PD-011, 2006.

- 184. Schmelz E, Xu H, Du J, Rishi AK, Sarkar F, Majumdar APN: Reversal of Early Stages of Colorectal Cancer with EGF-Receptor Related Protein (ERRP). 97th Annual Meeting of the American Association for Cancer Research, Washington DC, April 1-5, 2006.**
- 185. Wali A, Siddiqui F, Kanakapalli D, Liu Z, Lonardo F, Rishi AK, Majumdar APN, Carbone M, Heng HHQ, Pass HI. Intelectin Overexpression causes Chromosomal Abaerrations in Immortalized Human Mesothelial Cells. 97th Annual Meeting of the American Association for Cancer Research, Washington DC, April 1-5, 2006.**

PRESENTATIONS:International:

1. 1980 University of Guelph, Geulph, Ontario, Canada
Seminar Topic: Tryptophan Regulation of Protein and Nucleic Acid Metabolism.
2. 1983 International Workshop on Drugs, Hormones, Integrity and Structure of Gastric Mucosa. Interlaken, Switzerland
Seminar Topic: Gastrin Ontogeny and Gastric Mucosal Growth.
3. 1983 Memorial University of Newfoundland, St. John's Newfoundland, Canada
(i) Seminar Topic: Gastrin and Gastrointestinal Mucosal and Pancreatic Growth.
(ii) Seminar Topic: Acid Secretion.
4. 1990 Canadian Association of Gastroenterology 59th Annual Meeting of The Royal College of Surgeons of Canada, Toronto.
Seminar Topic: Gastrin Receptors and Growth of the Gastric Mucosa.
5. 1993 IX Symposium on Children's Gastroenterology and Nutrition, Lodz, Poland.
Seminar Topic: Gastrin Receptor and Post-receptor Regulation of Gastrointestinal Growth.
6. 1994 International Cancer Congress, New Delhi, India.
Topic of Presentation: pp55, A Novel Tyrosine Kinase: Significance in Colorectal Neoplasia.
7. 1996 Key-note Speaker at the International Conference on the Molecular and Free Radical Basis of Wide Spectrum Diseases, Lodz, Poland.
Topic of Presentation: Aging and Gastric Mucosal Repair
8. 1996 11th International Symposium on Regulatory Peptides, Copenhagen, Denmark.
Chairman of the Session on Growth Regulation in the Gut.
Topic of Presentation: Aging Enhances Gastric Mucosal Sensitivity to EGF and TGF- α .
9. 1997 Invited speaker at the 2nd International Colorectal Symposium, Lodz, Poland, June 4-6, 1997.
Topic of Presentation: Chemopreventive Role of Dietary Calcium in Colorectal Neoplasia.
10. 1998 Gordon Conference on Biology of Aging, Il Ciocco, Italy
Topic of Presentation: Increased Sensitivity of EGFR to EGF and TGF- α in the Gastric Mucosa of Aged Rats.
11. 1999 3rd International Colorectal Symposium, Zaczapone, Poland, June 9-11, 1999
Topic of Presentation: Chemopreventive Role of Folic Acid in Colon Cancer.
12. 1999 XV Asia Pacific Cancer Conference, Chennai (Madras), India, December 11-15, 1999

Topic of Presentation: Cloning of a Novel EGFR Related Peptide with Antitumorigenic Property.

13. 1999 Invited Speaker at the Medicine in the Millenium; Calcutta, India, December 27-29, 1999.
Topic of Presentation: Nutrition and GI Cancer.
14. 2000 Invited Speaker at the 1st Congress of Polish Society of Paedidtric Gastroenterology, Hepatology and Nutrition, Lodz, Polan September 21-23, 2000.
Topic of Presentation: Role of Nutrition in Gastrointestinal Cancers.
15. 2001 International Conference on New Anticancer Agents, Athens, Greece, June 9-12, 2001
Topic of Presentation: Inhibition of Epithelial Cancers by ERRP: A Novel Negative Regulator of EGFR
16. 2002 Invited Speaker, Institute of Membrane Biology, University of Beijing, P.R. China.
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
17. 2002 Invited Speaker, Xiang Ya Hospital, Hunan Medical University, Changsha, P.R. China
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
18. 2003 Invited Speaker, 2nd International Gut-Brain Axis Symposium, Cracow, Poland, Nov. 14-16, 2003.
Topic of Presentation: Regulation of Gastrointestinal Mucosal Growth During Aging.
19. 2003 Invited Speaker, Division of Gastroenterology, University of Lodz, Lodz, Poland.
Topic of Presentation: EGFR Related Protein and Carcinogenesis.
20. 2004 Invited Speaker, 7th International Conference of Anticancer Research, Corfu, Greece, October 25-30, 2004.
Topic of Presentation: EGF-Receptor Related Peptide (ERRP) Is Downregulated in Colon Cancer, and Is a Potential Therapeutic Agent for Colorectal Cancer.
21. 2004 Chairman, Molecular Oncology Session, 7th International Conference of Anticancer Research, Corfu, Greece, October 25-30, 2004.
22. 2005 9th National Conference on Bioactive Heterocycles and Drug Discovery Paradigm, Rajkot, India, January 8-10, 2005.
Title of the Lecture: EGF-Receptor Related Protein (ERRP) A Potential Therapeutic Agent for Epithelial Cancers.
23. 2005 Invited Speaker at the Jadavpur University, Kolkata, India, January 22, 2005
Title of the Lecture: EGF-Receptor Related Protein (ERRP) A Potential Therapeutic Agent for Epithelial Cancers.
24. 2006 Invited Speaker, Chittaranjan Cancer Center, Kolkata, India.
Title of Presentation: Targeting EGFRs in Colorectal Cancer with EGF-Receptor Related

Protein (ERRP).

25. 2006 Invited Speaker, Science College; Calcutta University, Kolkata, India.
Title of Presentation: Targeting EGFRs in Colorectal Cancer with EGF-Receptor Related Protein (ERRP).
26. 2006 Invited Speaker at the 2nd International Conference on Drug Discovery, Belgaum, India
Title of the Lecture: Combination of curcumin and EGFR-related protein (errp): a potential therapeutic intervention for colorectal cancer
27. 2006 Invited Speaker at the International Symposium on Recent Progress in Curcumin Research, Yogyakarta, Indonesia, September 11-12, 2006.
Title of the Lecture: Curcumin: A Novel Therapeutic Approach for Gastrointestinal Cancers.
28. 2006 Presentation at the 2006 World Congress on Gastrointestinal Cancer, Barcelona, Spain, June 28 – July 1, 2006
Title of Presentation: Reversal of early stages of colorectal cancer with EGF-receptor related protein (ERRP). *Annals of Oncology*, 17: PD-11, 2006.

National:

1. 1982 Texas A&M University, Texas
Seminar Topic: Gastrin and Gastrointestinal Growth.
2. 1983 Children's Hospital of Buffalo, Buffalo, NY
Seminar Topic: Gastrin and Gastrointestinal Mucosal Growth.
3. 1985 University of California, Davis, CA
Seminar Topic: Hormonal and Nutritional Regulation of Gastrointestinal Mucosal Growth.
4. 1985 John Muir Hospital, Walnut Creek, CA
(i) Seminar Topic: Pathophysiology of Gastrin.
(ii) Seminar Topic: Dietary Fiber and Gastrointestinal Function.
5. 1985 Doctor's Hospital, Pinole, CA
(i) Seminar Topic: Pathophysiology of Gastrin.
(ii) Seminar Topic: Dietary Fiber and Gastrointestinal Function.
6. 1986 Hahnemann University, Philadelphia, PA
Seminar Topic: Gastrin Ontogeny and Gastric Mucosal Growth.
7. 1989 Colorado State University, Fort Collins, CO
Seminar Topic: Aging and Gastrointestinal Mucosal Cell Proliferation.
8. 1989 University of Arkansas School of Medicine, Little Rock, AR
Seminar Topic: Aging and Gastrointestinal Mucosal Cell Proliferation.
9. 1989 Food and Drug Administration, Washington, DC

Seminar Topic: Aging and Gastrointestinal Mucosal Cell Proliferation.

10. 1990 Naval Research Institute, Washington, DC
Seminar Topic: Aging and Gastric Mucosal Injury.
11. 1992 Wright State University/VA Medical Center Dayton, OH
Seminar Topic: Aging and Biochemical Aspects of the GI Tract.
Seminar Topic: Aging and Gastrin.
12. 1992 Gordon Conference on Aging, New Hampton, NH.
Topic of Presentation: Role of Tyrosine Kinases in Bombesin Regulation of Gastric Mucosal Proliferative Activity in Young and Aged Rats.
13. 1994 Gordon Conference on Aging, Oxnard, CA.
Topic of Presentation: Induction of EGF-Receptor Tyrosine Kinase During Early Reparative Phase of Gastric Mucosa and Effects of Aging.
14. 1994 University of Calcutta Medical Association, Mackinac Island, MI.
Topic of Presentation: Aging and GI Neoplasia.
15. 1994 Mucosta Symposium, Laguna Niguel, CA.
Invited Commentator on the Symposia: Mucosta: A Novel Cytoprotective Agent.
16. 1995 FASEB Summer Research Conference on the Cellular and Molecular Basis of Gastrointestinal Mucosal Defense, Saxton River, Vermont.
Topic of Presentation: Increased Translocation of pp60^{c-src} from membrane to cytosol by TGF- α During Early Reparative Phase of Gastric Mucosa and Effects of Aging.
17. 1996 American Aging Association (AGE) 26th Annual Meeting, San Francisco, CA.
Topic of Presentation: Aging: Increased sensitivity of the gastric mucosa to EGF and TGF- α
18. 1998 Department of Physiology and Biophysics and the Arkansas Center for Membrane Biology, University of Arkansas Medical School, Little Rock, Arkansas.
Topic of Seminar: Aging and Gastrointestinal Tyrosine Kinases.
19. 1998 VA Medical Center, Phoenix, AZ.
Topic of Seminar: Chemopreventive Role of Folic Acid in GI Cancers
20. 1998 Invited Speaker at the FASEB Summer Research Conference (Aug 16-21), Namaste Retreat Center, Wilsonville, Oregon.
Topic of Presentation: Role of TGF- α in Mucosal Defense with Particular Reference to the Aging Stomach.
21. 1999 Division of Gastroenterology, Department of Internal Medicine, University of Arkansas Medical School, Little Rock, Arkansas.
22. 2000 Invited Speaker at the American Gastroenterological Symposium entitled "Aging and Cancer: A Two-Edged Sword", San Diego, CA, May 21-24, 2000.
Topic of Presentation: Epithelial Cell Intracellular Signaling, Cancer and Aging.

23. 2000 College of Health Science and Human Development, University of Illinois, Chicago.
Topic of Seminar: Chemopreventive Role of Calcium and Folate in GI Cancers
24. 2001. MidWest Gut Club Meeting, Chicago, March 2001.
Topic of Presentation: Inhibition of Epithelial Cancers by ERRP: A Novel Negative Modulators of EGFR.
25. 2001 Intellectual Property in the VA – Technology Transfer Meeting, Washington D.C.
Topic of Presentation: Inhibition of Epithelial Cancers by ERRP: A Novel Negative Modulators of EGFR.
26. 2002 Department of Biology, Rensselaer Polytechnic Institute, Troy, NY.
Topic of Presentation: Epithelial Cell Intracellular Signaling, Cancer and Aging.
27. 2002 Department of Pathology, University of Michigan, Ann Arbor, MI
Topic of Presentation: Inhibition of Epithelial Cancers by ERRP by a Novel Negative Regulator of EGFR.
28. 2002 Invited Speaker at 2nd International Symposium on Ulcer Healing: Focus on Angiogenesis and Gene Therapy. Long Beach California; May 23-25
Chairman: Molecular mechanisms of ulcer healing in the GI tract.
Title of Presentation: Discovery of a Novel EGF-R Inhibitory Protein.
29. 2002 Invited Speaker, Department of Nutrition, University of Illinois at Chicago, Chicago, IL
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
30. 2003 Invited Speaker, Department of Medicine & Cancer Center, Indiana University, Indianapolis, Indiana
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
31. 2003 Invited Speaker at the Apoptosis and Aging Tissues Meeting, National Institute on Aging, March 24-25, 2003; The National Conference Center, Lansdowne, VA.
Title of Presentation: Regulation of Gastrointestinal Mucosal Growth During Aging.
32. 2003 Macrogenics, Rockville, MD.
Title of Presentation: EGF-Receptor Related Protein and Carcinogenesis.
33. 2005 Invited Speaker at the 9th National Conference on Bioactive Heterocycles and Drug Discovery Paradigm, Rajkot, India, January 8-10, 2005.
Title of the Lecture: EGF-Receptor Related Protein (ERRP) A Potential Therapeutic Agent for Epithelial Cancers.
34. 2005 Invited Speaker at the Jadavpur University, Kolkata, India, January 22, 2005
Title of the Lecture: EGF-Receptor Related Protein (ERRP) A Potential Therapeutic Agent for Epithelial Cancers.

35. 2005 Invited Grand Round speaker: Department of Medicine, University of New Mexico, Albuquerque, New Mexico.
Title of Presentation: Targeting EGFRs in Colorectal Cancer with EGF-Receptor Related Protein (ERRP).
36. 2005 Symposia Presentation: 106th Annual Meeting of the American Gastroenterological Association (AGA), Chicago, IL.
Title of Presentation: EGFR-related protein (ERRP) inhibits multiple members of EGFR family in colon, lung and breast cancer cells.
37. 2006 Symposia [Novel and Experimental Therapeutics in GI Cancer] Presentation: 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA.
Title of Presentation: Reversal of early stage of colorectal cancer with EGF-receptor related protein.
38. 2006 Symposia [Aging] Presentation: 107th Annual Meeting of the American Gastroenterological Association (AGA), Los Angeles, CA.
Title of Presentation: Age-related rise in colorectal adenomas is associated with increased EGF-receptor expression.
38. 2006 Invited Speaker at the 2nd International Drug Discovery Conference, Belgaum, India.
Title of Presentation: Combination Of Curcumin And EGFR-Related Protein (ERRP): A Potential Therapeutic Intervention For Colorectal Cancer

Local:

1. 1986 Wayne State University, Detroit, MI
Seminar Topic: Gastrin Regulation of Gastrointestinal Mucosal Growth.
2. 1987 Wayne State University, Detroit, MI
Seminar Topic: Aging and Gastrointestinal Mucosal Cell Proliferation.
3. 1992 Department of Biochemistry, Wayne State University, Detroit, MI
Seminar Topic: Aging, Tyrosine Kinase and Mucosal cell Proliferation.
4. 1994 Department of Internal Medicine, Wayne State University, Detroit, MI.
Seminar Topic: Aging, Tyrosine Kinase and Mucosal Cell Proliferation.
5. 1994 Department of Nutrition, Wayne State University, Detroit, MI.
Seminar Topic: Colorectal Neoplasia and Tyrosine Kinase.
6. 1995 Beaumont Hospital, Detroit, MI.
Seminar Topic: The Aging Gut: Regulation of Cell Proliferation.
7. 1996 Department of General Internal Medicine, Wayne State University, Detroit, MI.
Seminar Topic: The Aging Gut: Regulation of Cell Proliferation.

8. 1996 VA Research Service, Detroit VA Medical Center,
Seminar Topic: Regulation of Gastric Mucosal Reparative Processes.
9. 1997. Barbara Ann Karmanos Cancer Institute, Wayne State University, Detroit, MI.
Seminar Topic: Aging and Gastric Mucosal Tyrosine Kinases.
10. 1998 Barbara Ann Karmanos Cancer Institute, Wayne State University, Detroit, MI.
Seminar Topic: Chemopreventive Role of Folic Acid in GI Cancers.
11. 1998 Department of Pathology, Wayne State University School of Medicine, Detroit, MI.
Seminar Topic: Chemopreventive Role of Folic Acid in GI Cancers.
12. 1998 Invited Speaker at the Conference on Gastroenterology and Hepatology: Advances in Diagnosis and Treatment (Sponsored by Detroit Medical Center & Wayne State University, Detroit, MI) September 10-13, Mackinac Island, Michigan.
Seminar Topic: Nutrition and GI Cancer
13. 1998 Kresgie Eye Institute, Wayne State University, Detroit, Michigan
Seminar Topic: Aging and Regulation of GI Mucosal Cell Proliferation.
14. 2001 GU Unit, Karmanos Cancer Institute/Harper Hospital, Wayne State University, Detroit, Michigan.
Seminar Topic: Inhibition of Epithelial Cancers by ERRP: A Novel Inhibitor of EGFR.
15. 2001 Division of Gastroenterology, Wayne State University, Detroit, Michigan.
Seminar Topic: Inhibition of Epithelial Cancers by ERRP: A Novel Inhibitor of EGFR.
16. 2001 Developmental Therapeutics/Karmanos Cancer Institute, Wayne State University, Detroit, Michigan.
Seminar Topic: Epithelial Cell Intracellular Signaling, Cancer and Aging.
17. 2001 Department of Food Science and Nutrition, Wayne State University, Detroit, Michigan.
Seminar Topic: Epithelial Cell Intracellular Signaling, Cancer and Aging.
18. 2001 Division of Gastroenterology and Hepatology, Beaumont Hospital, Detroit, Michigan.
Seminar Topic: Inhibition of Epithelial Cancers by A Novel Negative Regulator of EGFR
19. 2002 Developmental Therapeutics, Karmanos Cancer Institute, Wayne State University, Detroit, MI.
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
20. 2002 GU Conference, Karmanos Cancer Institute/Harper Hospital, Wayne State University, Detroit, MI.
Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.
21. 2002 Department of Pathology, Wayne State University, Detroit, MI.

Topic of Presentation: ERRP: A Novel Negative Regulator of EGFR is a Potential Therapeutic Agent for Epithelial Cancers.

22. 2002 Division of Gastroenterology and Hepatology, Beaumont Hospital, Detroit, Michigan.
Seminar Topic: Inhibition of Epithelial Cancers by A Novel Negative Regulator of EGFR
23. 2003 Therapeutic Development; Karmanos Cancer Institute/Wayne State University
Seminar Topic: Chemopreventive Role of Folic Acid In Colorectal Cancer.
24. 2003 Divison of Gastroenterology, Wayne State University, Detroit, MI
Seminar Topic: Regulation of Gastrointestinal Growth During Aging.
25. 2003 Henry Ford Hospital, Detroit, MI.
Seminar Topic: EGF-Receptor Related Protein and Carcinogenesis.
26. 2004 Karmanos Cancer Institute, Wayne State University
Seminar Topic: EGF-R Relate Protein in Carcinogenesis
27. 2004 Conference on Gastroenterology and Hepatology: Advances in Diagnosis and Treatment.
September 9-12, 2004
Moderator of the Session on Chemoprevention of Colorectal Cancer
28. 2005 John D. Dingell VA Medical Center, Detroit, MI, February 15, 2005
Seminar Topic: Therapeutic Potential of EGFR Related Protein, A Universal EGFR Family antagonist.
29. 2005 Development Therapeutic Group, Karmanos Cancer Institute, Wayne State University
Seminar Topic: Therapeutic Potential of EGFR Related Protein, A Universal EGFR Family antagonist.
30. 2006 John D. Dingell VA Medical Center, Detroit, MI, September, 2006
Seminar Topic: Curcumin: A Novel Therapeutic Approach for Colon Cancer