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**Harvard Medical School  
Curriculum Vitae and Bibliography**

**Date prepared:**

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**Education:**

1986	B.S. Magna Cum Laude	Molecular Biophysics and Biochemistry	Yale University
1986	M.S.	Molecular Biophysics and Biochemistry	Yale University
1991	M.D.	Medicine	Harvard Medical School

**Postdoctoral Training:**

1991-1992	Intern	General Surgery	UCSD Medical Center
1992-1995	Resident	General Surgery	Beth Israel Hospital
1995-1996	Surgical Coordinator	General Surgery	Beth Israel Hospital
1996-1998	Research Fellow	Surgical Research (NIH T32)	Beth Israel Deaconess Medical Center

**Licensure and Certification:**

1992	Diplomate, National Board of Medical Examiners, Certificate
1995	Commonwealth of Massachusetts
1997	American Board of Surgery
2007	Recertification, American Board of Surgery

**Academic Appointments:**

1991-1992	Clinical Fellow	Surgery	UCSD
1992-1995	Clinical Fellow	Surgery	Harvard Medical School
1995-1999	Instructor	Surgery	Harvard Medical School
2000-	Assistant Professor	Surgery	Harvard Medical School
2006-	Lecturer in Surgery	Surgery	Tufts University School of Medicine
2007-	Adjunct Professor	Surgery	Inha University, Korea

**Hospital Appointments:**

1998-2005	Staff Surgeon	Surgery	Beth Israel Deaconess Medical Center
2005-	Staff Surgeon	Surgery	Faulkner Hospital
2005-	Staff Surgeon	Surgery	Brigham and Women's Hospital

**Other Professional Positions:**

2002-	Consultant		Ethicon Endosurgery
2003-2008	Consultant		GI Dynamics
2005-	Scientific Advisory Board	Bariatric Surgery	BC& BS of Massachusetts

**Major Administrative Leadership Positions:**

2000-2005	Director	Bariatric Surgery	Beth Israel Deaconess Medical Center
2005-	Director	Bariatric Surgery	Faulkner Hospital
2005-	Director	Bariatric Surgery	Harvard Vanguard Medical Associates

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**Committee Service:**

- 2006- Cancer Committee, Faulkner Hospital, Boston, MA  
2006- Operating Room Committee, Faulkner Hospital, Boston, MA

**Professional Society Involvement:**

- 1986- American Medical Association  
1992- Massachusetts Medical Society  
1996- American Gastroenterological Association  
1997- Association for Academic Surgery  
1999- The Society for Surgery of the Alimentary Tract  
2000- International College of Surgeons  
2000- American Society for Bariatric Surgery  
2001- Fellow, American College of Surgeons  
2002- North American Association for the Study of Obesity  
2002- The Society of American Gastrointestinal Endoscopic Surgeons  
2003- Boston Surgical Society

**Awards & Honors:**

- 1986 Magna Cum Laude, Yale University  
1986 Associate Member, Sigma Xi Research Association, Yale University Chapter  
1988-1989 Karyn Grunebaum Cancer Research Fellowship, Harvard Medical School  
1988-1989 Andrus Surgical Research Fellowship, The Children's Hospital, Boston  
2007 Clinical Innovator of the Year, Harvard Vanguard Medical Associates, Boston  
2007 Partners Excellence Award, Partners Health Care, Boston

**PART II: Research, Teaching Contributions****C. Report of Current Teaching:****Medical School Courses, Tufts University School of Medicine**

- 2005- Core Clerkship in Surgery  
20-25 medical students per year  
Didactic lecture series on various surgical topics

**Resident teaching and Education, Brigham and Women's Hospital, Surgical Residency, Harvard Medical School**

- Attending Surgeon, General Surgery, Faulkner Hospital, Brigham and Women's Hospital  
Five (5) residents, Twelve (12) months per year  
Twenty (20) hours of direct teaching per week including operating room teaching

**D. Clinical Activities:**

- a. Clinical practice – gastrointestinal and bariatric surgery in a full-time practice (Harvard Vanguard Medical Associates)
- b. Time commitments:
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|-------------------------|-----|
| Patient care:           | 80% |
| Teaching/administration | 15% |
| Research                | 5%  |
- c. Patient load – approximately 400 inpatient and outpatient procedures per year. General surgical call 5 times monthly, weekend call every 7<sup>th</sup> weekend.

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## **Bibliography:**

### **Original Reports:**

1. **Mun EC**, Hawrot E. Determination of the monoclonal antibody 43.37 binding site on the alpha subunit of the acetylcholine receptor from *Torpedo Californica* (Master's Thesis). 1986; Yale University.
2. **Mun EC**, Rossitch E, Moore MR, Black PM. Dr. McKenzie's year with Dr. Cushing. (Letter). Canadian J. Neurol. Sci. 1990; 17: 353-354.
3. Tally KJ, Hrnjez BJ, Smith JA, **Mun EC**, Matthews JB. Adenosine scavenging: A novel mechanism of chloride secretory control in intestinal epithelial cells. Surgery 1996; 120: 248-254.
4. **Mun EC**, Rangachari P, Song JC, Hrnjez BJ, Matthews JB. "Crosstalk" between intracellular signaling pathways: regulation of basolateral K<sup>+</sup> channels and intestinal epithelial Cl<sup>-</sup> secretion. Surgical Forum. 1997; 48: 229-230.
5. **Mun EC**, Tally KJ, Matthews JB. Characterization and regulation of adenosine transport in T84 intestinal epithelial cells. Am. J. Physiol. 1998; 274: G261-G269.
6. Matthews JB, Smith JA, **Mun EC**, Sicklick JK. Osmotic regulation of intestinal epithelial Na-K-Cl cotransport: role of chloride and F-actin. Am. J. Physiol. 1998; 274: C697-706.
7. Farokhzad OC, **Mun EC**, Sicklick JK, Smith JA, Matthews JB. Effects of bryostatin 1, a novel anti-cancer agent on intestinal transport and barrier function: Role of protein kinase C (PKC). Surgery 1998; 124: 380-387
8. **Mun EC**, Mayol JM, Riegler M, O'Brien TC, Farokhzad OC, Song JC, Pothoulakis C, Hrnjez BJ, Matthews JB. Levamisole inhibits intestinal Cl<sup>-</sup> secretion via basolateral K<sup>+</sup> channel blockade. Gastroenterology 1998; 114:1257-1267.
9. O'Brien TC, Riegler M, **Mun EC**, Prasad M, Pothoulakis C, Matthews JB. Ammonia activates and inhibits chloride secretion in human colon. J. Gastro. Surg. (in press).
10. Farokhzad OC, Sagar GD, **Mun EC**, Sicklick JK, Lotz M, Smith JA, Song JC, O'Brien TC, Sharma CP, Kinane TB, Hodin RA, Matthews JB. Protein kinase C activation downregulates the expression and function of the basolateral Na/K/2Cl cotransporter. J. Cell. Physiol. 1999; 181: 489-498
11. Yoo J, Nichols A, Song JC, **Mun EC**, Matthews JB. Protein kinase epsilon dampens the secretory response of model intestinal epithelia during ischemia. Surgery 2001; 130 (2): 310-318
12. Mayol JM, Alarma-Estrany P, O'Brien TC, Song JC, Prasad M, Adame-Navarrete Y, Fernandez-Represa JA, **Mun EC**, Matthews JB. Electrogenic ion transport in mammalian colon involves an ammonia-sensitive apical membrane K<sup>+</sup> conductance. Dig Dis Sci. 2003 Jan;48(1):116-125
13. Patti ME, Butte AJ, Crunkhorn S, Cusi K, Berria R, Kashyap S, Miyazaki Y, Kohane I, Costello M, Saccone R, Landaker EJ, Goldfine AB, **Mun E**, DeFronzo R, Finlayson J, Kahn CR, Mandarino LJ. Coordinated reduction of genes of oxidative metabolism in humans with insulin resistance and diabetes: Potential role of PGC1 and NRF1. Proc Natl Acad Sci U S A. 2003 Jul 8;100(14):8466-71
14. Tritos NA, **Mun E**, Bertkau A, Grayson R, Maratos-Flier E, Goldfine A. Serum ghrelin levels in response to glucose load in obese subjects post-gastric bypass surgery. Obes Res. 2003 Aug;11(8):919-24
15. Schneider BE, Villegas L, Blackburn GL, **Mun EC**, Critchlow JF, Jones DB. Laparoscopic gastric bypass surgery: outcomes. J Laparoendosc Adv Surg Tech A. 2003 Aug;13(4):247-55

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16. Aldhahi W, **Mun E**, Goldfine AB. Portal and peripheral cortisol levels in obese humans. Diabetologia. 2004;47(5):833-6.
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  19. Patti ME, McMahon G, **Mun EC**, Bitton A, Holst JJ, Goldsmith J, Hanto DW, Callery M, Arky R, Nose V, Bonner-Weir S, Goldfine AB. Severe hypoglycaemia post-gastric bypass requiring partial pancreatectomy: evidence for inappropriate insulin secretion and pancreatic islet hyperplasia. Diabetologia 2005 Nov;48 (11):2236-40
  20. Chan JL, **Mun EC**, Stoyneva V, Mantzoros CS, Goldfine AB. Peptide YY Levels Are Elevated After Gastric Bypass Surgery. Obes Res 2006 Feb;14(2):194-8.
  21. Borud LJ, Grunwaldt L, Janz B, **Mun E**, Slavin SA. Components separation combined with abdominal wall placcation for repair of large abdominal wall hernias following bariatric surgery. Plast Reconstr Surg 2007 May; 119(6):1792-8.
  22. Goldfine AB, **Mun EC**, Devine E, Bernier R, Baz-Hecht M, Jone DB, Schneider BE, Holst J, Patti ME. Metabolic Characteristic of Patients with Neuroglycopenia Post Gastric Bypass Surgery for Obesity. J Clin Endocrin Metab 2007 Sep 25; Epub
  23. Lopez X, Velazquez EF, Castells M, **Mun E**, Ricker A, Goldfine AB. Human Insulin analog-induced lipotrophy. Diabetes Care 2008 Mar;31:442-4.

#### **Reviews and Book Chapters:**

1. **Mun EC**, Blackburn GL, Matthews JB. Current status of medical and surgical therapy for obesity. Gastroenterology. 2001; 120: 669-681
2. Blackburn GL, **Mun EC**. Hepatic impact of surgery for weight loss. Seminars in Liver Disease 2004;24:371-379
3. Schneider BE, **Mun EC**. Surgical management of morbid obesity. Diabetes Care 2005;28(2):475-80.
4. Kaplan LM, Fallon JA, **Mun EC**, Harvey AM, Kastrinakis WV, Johnson EQ, Nierman RS, Keroack CR. Coding and reimbursement for weight loss surgery: best practice recommendations. Obes Res. 2005 Feb;13(2):290-300
5. Blackburn GL, **Mun EC**. Therapy Insight: weight-loss surgery and major cardiovascular risk factors. Nature Clinical Practice 2005; 11(2):1-7
6. **Mun EC**, Sanchez VM, Jones DB. Postoperative assessment, documentation and follow-up. Laparoscopic Obesity Surgery. (in press).

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  8. **Mun EC**, Tavakkolizadeh A. Complications of bariatric surgery. UpToDate, Rose, BD (Ed), UpToDate, Waltham, MA, 2007
  9. Schneider BE, **Mun EC**. Surgical Treatment of Obesity and Diabetes. Obeisty and Diabetes, Humana Press. 2005; Chapter 28: 487-495.
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  11. Patti ME, **Mun EC**, Goldfine A. Hyperinsulinemic hypoglycemia post-gastric bypass. Current Opinions in Endocrinology, 2006, 13(5): 419-424

### **Proceedings of Meetings:**

1. Mayol JM, **Mun EC**, Hrnjez BJ, Song JC, Hassan I, Smith JA, Akbarali HI, Matthews JB. Opposing effects of the tyrosine kinase inhibitor genistein on apical and basolateral transport sites of Cl<sup>-</sup> secretory epithelia. *American Gastroenterological Association*, 1997.
2. Farokhzad OC, **Mun EC**, Smith JA, Sicklick, JK, Song JC, Matthews JB. Regulation of intestinal Na-K-2Cl cotransporter expression by protein kinase C. *American Gastroenterological Association*, 1998.
3. Sicklick JK, **Mun EC**, Hassan I, Song JC, Matthews JB. Genistein inhibits cAMP-dependent Cl<sup>-</sup> secretion and Na/K/2Cl cotransport via a tyrosine kinase independent mechanism. *American Gastroenterological Association*, 1998.
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6. Riegler M, Castagliuolo, **Mun EC**, Wlk M, Sogukoglu T, Matthews JB, Bischof G, Teleky B, Cosentini E, Wenzl E, Pothoulakis C. Involvement of adenosine receptors (ADORs) in the mediation of neurotensin-(NT)-evoked chloride secretion in human colon *in vitro*. *American Gastroenterological Association*, 1999.
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