

FABIEN BAKSH M.B.B.S.,F.C.A.P.



Board Certified, Anatomic and Clinical Pathology.

Gastrointestinal Pathology Fellowship, University of Pittsburgh

Surgical Pathology Fellowship, University of Pittsburgh

Chief Resident, Eastern Virginia Medical School,

Pathology resident, Eastern Virginia Medical School –PGY2-4,

University of Kansas – PGY1.

QUALIFICATIONS:

Gastrointestinal Pathology Fellowship, University of Pittsburgh Medical Center, 7/99 – 6/00.

Surgical Pathology Fellowship, University of Pittsburgh Medical Center, 7/98 – 6/99.

Anatomic and Clinical Pathology Certification, American Board of Pathology, November 1999.

U.S.M.L.E. Steps I, II, III, 1993, 1994, 1997.

Bachelor of Medicine, Bachelor of Surgery (M.B.,B.S.), University of the West Indies, July 1990.

EXPERIENCE:

Co-Founder and Director of Gastrointestinal and Hepatic pathology,

Pennsylvania Specialty Pathology, Lancaster, PA, Dec 2007-present.

- ◆ Independent pathology laboratory providing general anatomic/cytology and subspecialty pathology services.

Staff Pathologist / Director of Histology and Immunohistochemistry, Lancaster

General Hospital, Lancaster, PA, November 2002 – November 2007.

- ◆ Gastrointestinal / liver pathology consultation, intradepartmental and gastroenterologists
- ◆ General surgical pathology sign out
 - 38,600 surgical pathology specimens (8.9 FTE pathologists)
 - Active frozen section service
- ◆ Cytopathology
 - 34,500 *Thin Preps*; 6,800 conventional pap smears
 - 3,225 Non-gyn cytology specimens
- ◆ Clinical pathology coverage including therapeutic plasmapheresis procedures.

- ◆ Lancaster General Hospital Cancer Committee, 2002 – 2007.
- ◆ Thoracic Oncology Steering Committee, 2005 – 2007.
- ◆ GI Oncology Founders Task Force, 2007.
- ◆ Present pathology at various interdisciplinary patient management conferences
- ◆ Histology / Immunohistochemistry laboratory director
 - Set up in-house immunohistochemistry laboratory

Consultant Pathologist / Director of Immunohistochemistry, Diagnostic Medlab Services Ltd, Auckland, New Zealand, *December 2000 – March 2002.*

- ◆ GI pathology and Hematopathology intradepartmental consultation.
- ◆ Director of Immunohistochemistry laboratory.
- ◆ 84,000 surgical specimens (13 pathologists), including 20,000 GI specimens.
- ◆ 150,000 cytology specimens
- ◆ Largest pathology practice in New Zealand serving numerous hospitals, specialists and general practitioners.
- ◆ Active frozen section and fine needle aspiration service (pathologist performed).
- ◆ Pathology registrar teaching.

Consultant Pathologist, Northland Pathology Laboratory and Whangarei Area Hospital, Whangarei, New Zealand, *July 2000 – November 2000.*

- ◆ 10,000 surgical specimens, 1,500 non-gyn cytology specimens
- ◆ 150 autopsies – hospital and forensic
- ◆ Active clinical laboratory service.

MANAGEMENT EXPERIENCE / TRAINING

- ◆ Director, Pennsylvania Specialty Pathology, *2007 – present*
- ◆ Director, Lancaster Gastroenterology Laboratory, *2008 - present*
- ◆ Penn State University / Lancaster General Hospital Leader Education and Development (LEAD) Program
 - Customer Focused Health Care Leader, *Oct-Nov 2004*
 - Leading Change In A Dynamic Healthcare Environment, *Sept –Nov 2005*
- ◆ Director of Histology and Immunohistochemistry, Lancaster General Hospital, *November 2002 – present.*
- ◆ Director of Immunohistochemistry laboratory, Diagnostic Medlab Services, *December 2000 – June 2002.*
- ◆ Chief Resident, Eastern Virginia Medical School, *January 1997 - December 1997.*

COMMITTEE MEMBERSHIPS:

- ◆ Lancaster General Hospital Cancer Committee, *Dec 2002 – Nov 2007.*
- ◆ Lancaster General Hospital Thoracic Oncology Steering Committee, *Apr 2005 – Nov 2007.*

- ◆ GI Oncology Founders Task Force, Jan 2007 – Nov 2007.

PEER REVIEW

The Broad Medical Research Program, Los Angeles, CA. Peer reviewer for research proposals 2006.

Archives of Pathology and Laboratory Medicine, Peer reviewer 2004 – present.

American Journal of Gastroenterology, Peer reviewer 2004 – present.

SCHOLARSHIPS AND AWARDS:

Annual Pathology Research Day, University of Pittsburgh, 1st prize for Fellows Clinical Research, *June 2000*.

Baksh FK, Finkelstein SD, Sasatomi E, Swalsky PA, Bakker A, Woods J, Yousem SA. Microdissection mutational profiling distinguishes de novo primary cancer formation from metastatic spread in multifocal head and neck and lung squamous cell carcinomas.

United States and Canadian Academy of Pathology, Stowell-Orbison Award for Pathologists-in-Training, *March 2000*

SM Ariyanayagam-Baksh, **FK Baksh**, J Abernethy, R Siva, WM Cong, PA Swalsky, A Bakker, J Woods, UN Rao, SD Finkelstein.
Clonal evolution of primary and metastatic malignant melanoma.

American College of Surgeons, Virginia Chapter, 1st Place Clinical - 3rd Annual Resident Cancer Paper Competition, *November 1998*.

Minghini A, **Baksh FK**, Ariyanayagam-Baksh SM, Dorner C, Hellman BH, Perry RR. Ki-67 expression and bcl-2 expression as prognostic factors in gastrointestinal stromal tumours.

Republic of Trinidad and Tobago Additional National Scholarship, *September 1984*.

St. Mary's College, Biology 1st place award, G.C.E. A-Level Examination, *1984*.

St. Mary's College, English Literature 1st place award, G.C.E. O-Level Examination, *1982*.

PATHOLOGY TRAINING:

Gastrointestinal Pathology Fellowship, University of Pittsburgh Medical Center,

Pittsburgh, PA, *July 1999 – June 2000.*

- ◆ Molecular anatomic pathology research.
- ◆ Stowell-Orbison award for pathologists-in-training (USCAP) and University of Pittsburgh clinical research award for molecular research.

Surgical Pathology Fellowship, University of Pittsburgh Medical Center, Pittsburgh, PA, *July 1998 – June 1999.*

Pathology resident,

Eastern Virginia Medical School, Norfolk, VA, *July 1995-June 1998.*

University of Kansas Medical Center, Kansas City, KS, *July 1994-June 1995.*

Chief Resident, Eastern Virginia Medical School, Norfolk, VA, *January 1997 - December 1997*

ADDITIONAL POST GRADUATE MEDICAL EXPERIENCE

House officer – Hematology, Departments of Hematology and Transfusion Medicine, Port-of-Spain General Hospital, Trinidad, West Indies, *October 1992 - June 1994*

- ◆ Daily review of abnormal coagulation results, peripheral blood smears and hemoglobin electrophoreses.
- ◆ Performance and interpretation of bone marrow aspirates and biopsies.
- ◆ Support for transfusion medicine service.

House officer, Port-of-Spain General Hospital, Trinidad, West Indies, *January 1992 – September 1992.*

Medical intern, Mt. Hope Women's Hospital and Port-of-Spain General Hospital, *July 1990 - December 1991*

TEACHING ACTIVITIES:

- ◆ Pathology Registrar teaching – Auckland Public Hospital, *2001 - 2002*
- ◆ Haematology PBL instructor – 1st yr. Medical students, University of Pittsburgh Medical Center, *April 2000.*
- ◆ Integrated Life Sciences instructor - 4th yr Medical Students, University of Pittsburgh Medical Center, *March 2000.*
- ◆ Digestion and Nutrition PBL instructor – 2nd yr. Medical students, University of Pittsburgh Medical Center, *November 1999.*
- ◆ Pulmonary pathology – Lecturer and PBL instructor – 2nd yr. Medical students, University of Pittsburgh Medical Center, *October 1998.*
- ◆ Laboratory Instructor – 4th year medical students – Eastern Virginia Medical School, *1996-1998.*

RESEARCH

- ◆ University of Maryland NIH funded research project – Investigation of gluten sensitive enteropathy in Pennsylvania Old Order Amish. Principal Investigator – Daniel McBride Ph.D. 2004 – 2007.
 - Study proposing to define multigenerational pedigrees in the Lancaster County Old Order Amish as a resource for a future application to identify GSE susceptibility loci.
 - Provide histopathologic analysis of biopsy specimens from serologically positive (tTG-IgA Ab) individuals
- ◆ MXI-1 gene expression in melanomas, *2002*
- ◆ Mutational profile of malignant blue nevus, *2001*
- ◆ Investigation of the role of M paratuberculosis in the etiology of Crohn's disease using molecular methods, *2000*
- ◆ Molecular alterations in neuroendocrine tumors of various sites, *2000*.
- ◆ Molecular alterations in Barrett's esophagus / dysplasia using microdissection, *2000*.
- ◆ Mutational analysis of gastrointestinal stromal tumors and relationship to prognosis, *2000*.
- ◆ Genetic alterations in rectal carcinomas pre and post neoadjuvant chemotherapy, *2000*.
- ◆ Polyoma virus infection in the transplanted kidney – virus typing and mutation analysis *1999*.
- ◆ Molecular alterations in Stage 1 lung carcinomas, *1999*.
- ◆ Assessment of multiple primary tumors vs metastases using mutational profiling, *1999*.
- ◆ Mutational analysis of melanomas and Spitz nevi including clonal evolution, *1999*.

PROFESSIONAL MEMBERSHIPS:

- 1) Fellow - College of American Pathologists
- 2) Fellow - American Society for Clinical Pathology
- 3) Member – United States and Canadian Academy of Pathology
- 4) Member – Rodger C. Haggitt Gastrointestinal Pathology Society
- 5) Member – Philadelphia Gastrointestinal Pathology Society
- 6) Member - International Academy of Pathology
- 7) Member – Society for Hematopathology
- 8) Member – American Society of Cytopathology
- 9) Member – Pennsylvania Medical Society
- 10) Member – Pennsylvania Association of Pathologists

LICENSURE:

Pennsylvania State Board of Medicine (unrestricted active)
Commonwealth of Virginia (unrestricted – expired)

REFERENCES:

Available upon request

PLATFORM PRESENTATIONS:

- 1) **Baksh FK**. Colorectal carcinoma – grossly understaged or just gross. 1st Annual American Association of Pathologists' Assistants Mid-Atlantic Regional Conference. June 2006; Lancaster, Pennsylvania.
- 2) **Baksh FK**, Finkelstein SD, Swalsky PA, Randhawa P. Molecular characterization of BK and JC viruses from native and allograft kidneys. The United States and Canadian Academy of Pathology 89th Annual Meeting, March 2000, New Orleans, LA, March 2000.
- 3) **Baksh FK**, Ariyanayagam-Baksh SM, Hellman Jr. BH. Bcl-2 and CD34 expression in gastrointestinal stromal tumors. The Virginia Society of Hematology / Oncology. 35th Annual Meeting, June 1998, Virginia Beach, Virginia

PUBLICATIONS:

1. Dehner LP, Luo JJ, **Baksh FK**, Pfeifer JD, Eastman JT, Beyer III FC.. Abdominal mucinous cystic neoplasm in a male child. *Pediatr Dev Pathol* 2008; 11:46-9.
2. Ariyanayagam-Baksh SM, Addis CT, **Baksh FK**. Anemia and hyperbilirubinemia – more than just hemolysis. A clinicopathologic case study. *J Lanc Gen Hosp* 2007;2:131-5.
3. Ariyanayagam-Baksh SM, Sieber P, Cartun R, **Baksh FK**. Histoplasma posthitis – an uncommon presentation of a not uncommon pathogen. *Am J Dermatopathol* 2007; 29:300-2.
4. **Baksh FK**, Finkelstein SD, Ariyanayagam-Baksh SM, Swalsky PA, Klein EC, Dunn JC. Absence of *Mycobacterium avium* subsp. *paratuberculosis* in the microdissected granulomas of Crohn's disease. *Mod Pathol* 2004;17:1289-94.
5. Ariyanayagam-Baksh SM, **Baksh FK**, Swalsky PA, Finkelstein SD. Loss of heterozygosity in the MXI1 gene is a frequent occurrence in melanoma *Mod Pathol* 2003;16:992-995.
6. **Baksh FK**, Dacic S, Finkelstein SD, Swalsky PA, Siva R, Sasatomi E, Luketich JD, Fernando HC, Yousem SA. Widespread molecular alterations present in

stage I non-small cell lung carcinoma fail to predict tumor recurrence. *Mod Pathol* 2003;16:28-34.

7. Ariyanayagam-Baksh SM, **Baksh FK**, Finkelstein SD, Swalsky PA, Abernethy J, Barnes EL. Malignant blue nevus – a case report with molecular analysis. *Am J Dermatopathol* 2003;25:21-27.

8. Dacic S, Finkelstein SD, **Baksh FK**, Swalsky PA, Barnes LE, Yousem SA. Small cell neuroendocrine carcinoma displays unique profiles of tumor suppressor gene loss in relationship to the primary site of formation. *Hum Pathol* 2002;33:927-932.

9. Raja S, Finkelstein SD, **Baksh FK**, Gooding WE, Swalsky PA, Godfrey TE, Buenaventura PO, Luketich JD. Correlation between dysplasia and mutations of six tumor suppressor genes in Barrett's esophagus. *Ann Thor Surg* 2001;72:1130-1135.

10. **Baksh FK**, Finkelstein SD, Swalsky PA, Stoner GL, Ryschkewitsch CF, Randhawa P. Molecular genotyping of BK and JC viruses in human polyoma virus associated interstitial nephritis after renal transplantation. *Am J Kid Dis* 2001;38:354-365.

11. Randhawa P, **Baksh FK**, Aoki N, Tschirhart D, Finkelstein S. JC virus infection in allograft kidneys: analysis by polymerase chain reaction and immunohistochemistry. *Transplantation* 2001;71:1300-1303.

12. **Baksh FK**, Ariyanayagam-Baksh SM, McNeill S, Tahhan RH. Cryocryoglobulinemia manifesting as an inflammatory polyarthropathy. ASCP Molecular Diagnostics and Immunopathology Check Sample, MD98-2 (MDI-6). Chicago, Ill: American Society of Clinical Pathologists; 1998.

13. **Baksh FK**, Nathan D, Richardson W, Kestenbaum T, Woodroof J. Leukemia cutis with prominent giant cell reaction. *Am J Dermatopathol* 1998;20:48-52.

14. **Baksh FK**, Handler MS. Central nervous system *mycobacterium avium* complex infection (letter). *Arch Pathol Lab Med*. 1996;120: 614.

15. Watson M, **Baksh FK**, Ariyanayagam-Baksh SM, Oei P, Matthews J, Christie M. Mantle cell lymphoma – a case which acquired CD10 and bcl-6 during tumour progression (in preparation).

16. **Baksh FK**, Garofola J, Ariyanayagam-Baksh SM. Fibromatosis of the male breast – a clinical and radiologic mimic of carcinoma. (in preparation).

17. Ariyanayagam-Baksh SM, **Baksh FK**, Flood M. Reactive angioendotheliomatosis: a mimic of Kaposi's sarcoma (in preparation)

PUBLISHED ABSTRACTS:

- 1) Randhawa P, **Baksh F**, Aoki N, Swalsky P, Scantlebury V, Shapiro R, Vats A, Finkelstein S. Polyoma virus type JC in native and allograft kidneys. American Society of Transplantation Annual Meeting, Chicago, IL, May 2001. *Am J Transplant* 2001;1(supp):270A.
- 2) **Baksh FK**, Ramanathan RC, Swalsky PA, Bakker A, Woods J, Finkelstein SD. Neoadjuvant chemoradiation in rectal carcinomas – genetic alterations in pre and post therapy tumors. The United States and Canadian Academy of Pathology 90th Annual Meeting, Atlanta, GA, March 2001. *Mod Pathol* 2001;14:81A.
- 3) **Baksh FK**, Finkelstein SD, Sasatomi E, Swalsky PA, Bakker A, Woods J, Yousem SA. Microdissection mutational profiling distinguishes de novo primary cancer formation from metastatic spread in multifocal head and neck and lung squamous cell carcinoma. The United States and Canadian Academy of Pathology 90th Annual Meeting, Atlanta, GA, March 2001. *Mod Pathol* 2001;14:148A.
- 4) Nambiar A, Sasatomi E, Schoedel K, **Baksh FK**, Swalsky PA, Bakker A, Woods J, Finkelstein SD. Prediction of metastatic dissemination of gastrointestinal stromal tumors by microdissection mutational profiling. The United States and Canadian Academy of Pathology 90th Annual Meeting, Atlanta, GA, March 2001. *Mod Pathol* 2001;14:92A.
- 5) Randhawa P, **Baksh FK**, Aoki N, Swalsky PA, Finkelstein SD. JC virus coinfection in allograft kidneys with BK virus interstitial nephritis. The United States and Canadian Academy of Pathology 90th Annual Meeting, Atlanta, GA, March 2001. *Mod Pathol* 2001;14:190A.
- 6) Randhawa PS, **Baksh F**, Swalsky PA, Finkelstein SD. BK virus mutations in polyoma virus interstitial nephritis after renal transplantation. American Society of Transplantation Annual Meeting, Chicago, IL, May 2000. *Transplantation* 2000;69(supp):S137.
- 7) **Baksh FK**, Finkelstein SD, Swalsky PA, Randhawa P. Molecular characterization of BK and JC viruses from native and allograft kidneys. Platform presentation at The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:173A.
- 8) Dunn J, **Baksh FK**, Klein EC, Cong WM, Siva R, Swalsky PA, Finkelstein SD. Absence of mycobacterium paratuberculosis in granulomatous inflammation of Crohn's disease. The United States and Canadian Academy

of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:79A.

9) Siva R, **Baksh FK**, Godfrey T, Swalsky PA, Cong WM, Thomas S, Luketich J, Finkelstein SD. Correlation of Barrett's dysplasia with underlying tumor suppressor gene mutation in patients with esophageal adenocarcinoma. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:89A.

10) Ariyanayagam-Baksh SM, **Baksh FK**, Barnes L, Abernethy J, Siva R, Cong WM, Swalsky PA, Bakker A, Woods J, Finkelstein SD. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. Molecular pathogenesis of malignant blue nevus is unrelated to malignant melanoma. *Mod Pathol* 2000;13:60A.

11) Ariyanayagam-Baksh SM, **Baksh FK**, Abernethy J, Siva R, Cong WM, Swalsky PA, Bakker A, Woods J, Rao UN, Finkelstein SD. Clonal evolution of primary and metastatic malignant melanoma. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:60A.

12) Cong WM, Demetris AJ, **Baksh FK**, Swalsky PA, Thomas S, Siva R, Finkelstein SD. Biliary epithelium shows widespread mutational change in patients with cholangiocarcinoma or gallbladder adenocarcinoma. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:182A.

13) Dacic S, Finkelstein SD, **Baksh FK**, Swalsky PA, Cong WM, Siva R, Yousem SA. Comparative analysis of small cell neuroendocrine carcinomas arising from lung, head and neck and gastrointestinal tract. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:208A.

14) Rao UN, Ariyanayagam-Baksh SM, **Baksh FK**, Abernethy J, Siva R, Cong WM, Swalsky PA, Bakker A, Woods J, Finkelstein SD. Role of molecular genotyping in the diagnosis and predictive analysis of Spitz nevus. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:66A.

15) Johnson DR, Perez MCN, **Baksh FK**, Finkelstein SD, Barnes EL. Acinic cell carcinoma and dedifferentiated acinic cell carcinoma of the parotid gland. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:139A.

16) Fan CY, Barnes EL, Swalsky PA, Siva R, Cong WM, **Baksh FK**, Finkelstein SD. Deficiency of oxidative DNA damage repair due to OGG1 mutation is a

common event in malignant transformation of squamous mucosa of head and neck and is not present in reactive squamous cell hyperplasia. The United States and Canadian Academy of Pathology 89th Annual Meeting, New Orleans, LA, March 2000. *Mod Pathol* 2000;13:137A.

OTHER SCIENTIFIC PRESENTATIONS:

The American College of Gastroenterology, Annual Scientific Meeting, Oct 2005
Chen ST, Martin RJ, Balepur S, **Baksh FK**. Primary splenic lymphoma in a HCV positive patient.

The Society of Thoracic Surgeons, 37th Annual Meeting, Jan 26-31, 2001, New Orleans, Louisiana.

Siva R, **Baksh FK**, Godfrey T, Swalsky PA, Cong WM, Thomas S, Luketich J, Finkelstein SD. Correlation of Barrett's dysplasia with underlying tumor suppressor gene mutation in patients with esophageal adenocarcinoma.

The International Society of Transplantation. 18th Annual Meeting, August 27-September 1, 2000, Rome, Italy.

Randhawa PS, **Baksh F**, Swalsky PA, Finkelstein SD. BK and JC virus genotypes in renal allografts.

The American College of Surgeons, Virginia Chapter 3rd Annual Resident Cancer Paper Competition, November 1998, Richmond, Virginia.

Minghini A, **Baksh FK**, Ariyanayagam-Baksh SM, Dorner C, Hellman BH, Perry RR. Ki-67 expression and bcl-2 expression as prognostic factors in gastrointestinal stromal tumours

The Virginia Society of Hematology / Oncology. 35th Annual Meeting, June 1998, Virginia Beach, Virginia.

1) **Baksh FK**, Ariyanayagam-Baksh SM, Hellman Jr. BH. Bcl-2 and CD34 expression in gastrointestinal stromal tumors.

2) Ariyanayagam-Baksh SM, **Baksh FK**, Tahhan HRT.

Cryocryoglobulinemia masking as an inflammatory arthropathy.
Eastern Virginia Medical School. Residents' Day Scientific Forum, May 1998.

1) Minghini A, **Baksh FK**, Ariyanayagam-Baksh SM, Dorner C, Hellman Jr. BH, Perry R. Ki67 and bcl-2 expression as prognostic factors in gastrointestinal stromal tumors.