

Jyoti P. Balani, M.D.
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AP/CP board certified, fellowship trained in Genitourinary & Surgical Pathology with subspecialty experience in Genitourinary & Gastrointestinal Pathology (13 yrs), Transfusion Medicine and Hematology
Excellent administrative and leadership abilities
Hands-on experience in Quality Improvement and Information Systems implementation and optimization
Dynamic, thrive on challenge, enthuse people, goal-driven

Education

Jul2005 - Jun2006	Fellow, Genitourinary Pathology PGY6 University of Pittsburgh Medical Center Pittsburgh, Pennsylvania
Jul2004 - Jun2005	Fellow, Surgical Pathology PGY5 University of Texas Southwestern Medical Center Dallas, Texas
Jul2001 - Jun2004	Resident, Anatomic and Clinical Pathology PGY2-4 University of Texas Southwestern Medical Center Dallas, Texas
Jul2000 - Jun2001	Resident, Anatomic and Clinical Pathology PGY1 Detroit Medical Center/Wayne State University SOM, Detroit, MI
Aug1990 - May1996	Medical School Bangalore Medical College Bangalore University, India
Jun1988 - May1990	Pre-University College -Physics, Chemistry, Mathematics, Biology MES College of Arts, Commerce and Science, Bangalore, India

Licensure

Texas State Medical Board - Current
California Medical Board - Current

Certification and Courses

Oct 14, 2016	Diplomate of American Board of Pathology (Clinical informatics)
Aug11, 2005	Diplomate of American Board of Pathology (AP/CP)
Sep3, 1999	ECFMG Certification
Feb7, 1997	MBBS (Bachelor of Medicine and Bachelor of Surgery)
Jan2020 - Dec2020	LEAD Program, UT Southwestern
2018-2019	Beaker (AP/CP/Integrated/Configuration) Build Courses, Verona, WI

Aug21-23, 2012	EPIC EMR Physician Build Course - Ambulatory 150, Verona, WI
Feb2011 - May2011	Physician Leadership Development Program, UT Southwestern
Sep2010 - Feb2011	Clinical Safety and Effectiveness Course, UT Southwestern

Faculty Academic Appointments

University of Texas Southwestern Medical Center, Dallas, Texas

Sep 2016 - Present	Associate Professor, Department of Pathology
Feb2009 - Aug 2016	Assistant Professor, Department of Pathology
Sep2011 - Oct2012	Co-director, Gastrointestinal Pathology Fellowship Program

Appointments at Hospitals and Affiliated Institutions

University of Texas Southwestern Medical Center, Dallas, Texas

Jan 2015 - Present	Associate Medical Director, Clinical Laboratory Services
Aug2012 - Present	Departmental Quality Officer, Pathology
Aug2012 - Present	Quality Medical Officer, Clinical Laboratory Services
Jan2012 - Present	Deputy Chief Medical Informatics Officer Pathology
Sep2010 - Aug2012	Associate Medical Director, Clinical Laboratory Services
Aug2009 - Dec2011	Medical Director, Hematology, Clinical Laboratory Services

Columbia Asia Referral Hospital, Yeshwanthpur, Bangalore, India (Seattle based group with hospitals in Asia)

Apr2008 - Oct2008	Consultant Pathologist and Head, Transfusion Services
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Wockhardt Hospital Bannerghatta Road Bangalore, India (Associated with Harvard Medical International)

Sep2006 - Mar2008	Consultant Pathologist and Blood Bank Officer
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Manipal North Side Hospital Bangalore, India

Jul 1996 - Mar 1997	Duty Doctor
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Memberships in Professional Societies

United States and Canadian Academy of Pathology

International Society of Urological Pathology

College of American Pathologists

Texas Society of Pathologists

Indian Society of Blood Transfusion and Immunohematology

Committee Service

Professional Society

2019-present Pathology Electronic Reporting Committee (PERT), College of American Pathologists (CAP)

UT Southwestern Medical Center Dallas, TX

2019 - Present Research Protocol Review & Monitoring Committee
2016 - Present Laboratory Campus Collaborative Parkland Hospital and Childrens Medical Center)
2013 - 2015 Leader, Lab Campus Collaborative
2011 - 2012 Co-chair, Laboratory Orders & Results Standardization Committee
2011 - Present Campus wide Critical Values Workgroup
2010 - Present Best Practices Committee

UTSW Hospitals

2010 - Present Hospital Quality and Safety Committee
2010 - 2012
2015 - Present Medical Executive Committee
2012 - Present
2010 - 2019 Performance Improvement Committee
2015 - Present Hospital Information Management Committee
2016 - Present Lab Nurse Partnership Committee Physician Champion
2013 - Present Laboratory Approval Committee

Teaching Accomplishments

Medical Student Pathology Course Small group facilitator-18 hours over 2-5 mos/year

Medical Student Lectures - 2 topics/year

Resident Didactic Lectures - Topics include GI Pathology, GU Pathology, Quality and Informatics

Residents/fellow training with hands-on experience in Quality Improvement and Informatics projects

Organized and facilitated resident electives in Gastrointestinal/Liver Pathology Jan2012 - Aug2013

Organized and facilitated Pathology in Clinical Medicine medical student electives Aug2012 - Aug2013

Co-Director Gastrointestinal Pathology Fellowship Program

Genitourinary Pathology didactics for Urology fellows UPMC & UTSWMC

At the scope sign-out teaching for residents and fellows

Major Leadership Positions, Committees & Accomplishments

University of Texas Southwestern Medical Center, Dallas, Texas

Associate Medical Director, Clinical Laboratory Services Jan 2015 - Present; Sep2010-Aug2012

- Participated in successful expansion of laboratory services (4 labs to 7 labs, multiple patient service centers and outreach services)
- Participated in successful lab relocations St. Paul to Clements University Hospital in December 2014 and AP gross room to hospital new wing Dec 2020
- Conversant with budget planning, cycle, RFI and RFP processes, product evaluation, pricing and contract negotiation, personnel recruitment, 360 evaluations, and performance improvement program
- Helped cultivate a sense of customer service, quality-mindedness, loyalty and pride in the organization
- Worked closely with supervisors and managers to map processes, identify areas of improvement, and implement process improvement measures in various lab sections

Medical Director, Hematology, Clinical Laboratory Services Aug2009-Dec2011

- Successful implementation of automated microscopic urinalysis
- Brought on board new DxH hematology analyzers
- Standardization of processes across the three labs and implemented robust method validation

Co-chair, Laboratory Orders & Results Standardization Committee Apr2011-Present

Leader - Lab Campus Collaborative Jan2013-Present

- Promoted adherence to Campus-wide Laboratory Standards for test nomenclature and results display in various sections of the EMR
- Developed a policy for standardized entry of outside lab results into the EMR
- Collaborative strategies and knowledge sharing to promote standardization and best practices in LIS/EHR systems

Deputy Chief Medical Informatics Officer Laboratory/Pathology Jan2012 - Present

- Enforced full clinical provider order entry (CPOE) including AP, autopsy and CP orders
- Implemented barcoded positive patient ID and specimen labeling at bedside using Sunquest Collection Manager and Epic Rover (phlebotomist) and Task-based Worklist (nurse collection)
- Oversight of LOINC mapping as part of meaningful use initiative
- Partnered with institution for HIMSS Stage 7 certification
- Implementation of successful Mtuitive and Beaker synoptic reporting
- Helped develop and implement a standardized process for change management in Information Services with focus on quality checks for new build and modifications
- Standardized change request document
- Demanded efficient and transparent project management
- Promoted cohesive work between lab and information resources
- Set up the lab operation analyst position to function as a super user of the LIS and a liaison between lab and IR for optimization of the LIS
- Instrumental role in organizing Sunquest iMentor, Epic Beaker, Reporting, and Data Innovations middleware training for LIS analyst/subject matter expert training by vendor
- Successful Beaker LIS/HCLL-Mediware Blood Bank, and Histotrac HLA systems implementation
- Successful implementation of EPICCare Link and LifePoint Outreach Modules

- Oversight of multiple new equipment installs - experience with Beckman, Roche, Seimens, Sysmex, Abbott, Microscan, Maldi-TOFF, Agility, E-Plex, Cepheid, Biofire, Quantalyzer, Sebia, Grifols Erytra
- Oversight of Lab Automation Track install (Chemistry, Hematology, Coagulation and Reference lab specimen sorting)
- Oversight of upgrades: Sunquest-EPIC ADT & O/R interfaces, Sunquest v7.1, Copath 6.1, Vantage v2.0
- Ongoing - Robust whole slide scanning and imaging solution integrated with Beaker

Quality Officer Department of Pathology Aug2012-Present

- Standardized test/method verification and validation processes across various lab sections
- Standardized reporting of clinically significant & unexpected findings in Anatomic Pathology
- Standardization of Anatomic Pathology report format
- Revision and monitoring of departmental quality indicators
- Kick-started QI initiatives and FMEA - Gross Room, Histology and Immunohistochemistry
- Implemented document control systems Master control and then Policy tech
- Standardized Proficiency testing failures, test reagent and medical device recall and reconciliation
- Set up routing of material for reflex biomarker testing of lung adenocarcinoma
- Improved TAT and correlation of results of body fluid testing
- Standardized accessioning protocols to positively affect downstream billing and result routing
- Updates to autopsy protocols, standardized requisitions and forms
- Standardization of explant storage, tracking, retrieval, disposal and chain of custody
- Standardized process for products of conception and fetus
- Standardized protocol for outside consultations and incorporation in report
- Led and participated in lab inspections and internal self-assessments

Physician Champion - Lab Nurse Partnership Committee Mar2012-Present

- Successful implementation of campus-wide positive patient ID
- Successful implementation of campus-wide lab-ready specimen labeling at collection
- Standardization of specimen collection and labeling practices to prevent error
- Implemented Jidoka process to reduce mislabeled, unlabeled and suboptimally labeled specimens
- Root cause analysis and corrective actions for event reports
- Promoted Nursing and Lab collaborative approach to problem solving
- Collaborative event reporting and process improvement

Co-Chief Resident, Pathology Jul2003-Jun2004

University of Texas Southwestern Medical Center, Dallas, Texas

Columbia Asia Referral Hospital Yeshwanthpur, Bangalore, India

Set up Blood Bank from ground up

Consultant for development of new Blood Bank Software

Wockhardt Hospitals Bannerghatta Road Bangalore

Set up voluntary blood donation center and component preparation

Failure Mode & Effects Analysis: Blood Bank Operations

Reduction in use of whole blood; MSBOS schedule modified

Joint Commission International (JCI) Accreditation Preparedness-Core Committee member

Sentinel Event Reporting and Root Cause Analysis

Publications

Shore K , Phelps K, Balani J, Mitchell J. Alpha-Fetoprotein-Producing Esophageal Adenocarcinoma With Enteroblastic, Yolk Sac Tumor-Like, and Hepatoid Carcinoma Differentiation: A Rare Case and Literature Review *Int J Surg Pathol*. 2022 Dec 13;10668969221142041. doi: 10.1177/10668969221142041 PMID: 36514283

Chi Z, **Balani J**, Gopal P, Hammer S, Lewis CM, Peng L. Characterization of Desmoglein 3 (DSG3) as a Sensitive and Specific Marker for Esophageal Squamous Cell Carcinoma. *Gastroenterol Res Pract*. 2022 Feb 24;2022:2220940. doi: 10.1155/2022/2220940. eCollection 2022. PMID: 35251162

Arvais-Anhalt S, Lehmann CU, Bishop JA, **Balani J**, Boutte L, Morales M, Park JY, Araj E. Searching Full-Text Anatomic Pathology Reports Using Business Intelligence Software *J Pathol Inform*. 2022 Feb 7;13:100014. doi: 10.1016/j.jpi.2022.100014. eCollection 2022. PMID: 35251753

Chi Z, **Balani J**, Gopal P, Hammer S, Xu J, Peng L. GATA3 positivity is associated with poor prognosis in patients with oesophageal squamous cell carcinoma. *J Clin Pathol*. 2022 Jan 17: jclinpath-2021-208035. doi: 10.1136/jclinpath-2021-208035. Online ahead of print. PMID: 35039449

Torous VF, Allan RW, **Balani J**, Baskovich B, Birdsong GG, Dellers E, Dryden M, Edgerton ME, Giannico GA, Heayn M, Jackson CR, Klepeis VE, Olson JE, Pettus JR, Simpson RW, Sirintrapun SJ, Smith DL, Srigley JR, Berman MA. In Reply. *Arch Pathol Lab Med*. 2022 Jan 2;146(2):141b-143. doi: 10.5858/arpa.2021-0461-LE. PMID: 35073403

Faris G, Araj, **Jyoti P. Balani**, Alpesh A. Amin, Pradeep P.A. Mammen, Sonia Garg, Michael Luna. Ascites and Edema After Bicaval Orthotopic Heart Transplant. *The Journal of Invasive Cardiology*. 2021 Jul;33(7):E581-E583. PMID: 34224390

Chi Z, **Balani J**, Gopal P, Peng L, Hammer S. Variations of P40 and P63 Immunostains in Different Grades of Esophageal Squamous Cell Carcinoma: A Potential Diagnostic Pitfall *Appl Immunohistochem Mol Morphol*. 2021 Oct 1;29(9):674-679. doi: 10.1097/PAI.0000000000000943. PMID: 34061488

Narasimhan M, Mahimainathan L, Araj E, Clark AE, Markantonis J, Green A, Xu J, SoRelle JA, Alexis C, Fankhauser K, Parikh H, Wilkinson K, Reczek A, Kopplin N, Yekkaluri S, **Balani J**, Thomas A, Singal AG, Sarode R, Muthukumar A. Clinical evaluation of the Abbott Alinity SARS-CoV-2 spike-specific quantitative IgG and IgM assays among infected, recovered, and vaccinated groups. *J Clin Microbiol*. 2021 Jun 18;59(7):e0038821. doi: 10.1128/JCM.00388-21. Epub 2021 Jun 18. PMID: 33827901

Narasimhan M, Mahimainathan L, Araj E, Clark AE, Wilkinson K, Yekkaluri S, Tiro J, Lee FM, **Balani J**, Sarode R, Singal AG, Muthukumar A. Expanding COVID-19 Vaccine Availability: Role for Combined Orthogonal Serology Testing (COST) Vaccines (Basel). 2021 Apr 13;9(4):376. doi: 10.3390/vaccines9040376. PMID: 33924340

Torous VF, Allan RW, **Balani J**, Baskovich B, Birdsong GG, Dellers E, Dryden M, Edgerton ME, Giannico GA, Heayn M, Jackson CR, Klepeis VE, Olson JE, Pettus JR, Simpson RW, Sirintrapun SJ, Smith DL, Srigley JR, Berman MA. Exploring the College of American Pathologists Electronic Cancer Checklists. *Arch Pathol Lab Med*. 2021 Apr 1;145(4):392-398. doi: 10.5858/arpa.2020-0239-ED. PubMed PMID: 33238006

Torous VF, Simpson RW, **Balani JP**, Baras AS, Berman MA, Birdsong GG, Giannico GA, Paner GP, Pettus JR, Sessions Z, Sirintrapun SJ, Srigley JR, Spencer S. College of American Pathologists Cancer Protocols: From

Optimizing Cancer Patient Care to Facilitating Interoperable Reporting and Downstream Data Use. *JCO Clin Cancer Inform.* 2021 Jan; 5:47-55. doi: 10.1200/CCI.20.00104. PubMed PMID: 33439728

Phipps WS, SoRelle JA, Li QZ, Mahimainathan L, Araj E, Markantonis J, Lacelle C, **Balani J**, Parikh H, Solow EB, Karp DR, Sarode R, Muthukumar A. SARS-CoV-2 Antibody Responses Do Not Predict COVID-19 Disease Severity. *Am J Clin Pathol.* 2020 Sep 8;154(4):459-465. doi: 10.1093/ajcp/aqaa123. Pubmed PMID: 32666092

McDonald S, Courtney DM, Clark AE, Muthukumar A, Lee F, **Balani J**, Mahimainathan L, Bararia A, Oliver D, Sarode R, Diercks D. Diagnostic Performance of a Rapid Point-of-care Test for SARS-CoV-2 in an Urban Emergency Department Setting. *Acad Emerg Med.* 2020 Aug;27(8):764-766. doi: 10.1111/acem.14039. Epub 2020 Jul 17. Pubmed PMID: 32492760

Activating BRAF mutation in sclerosing mucoepidermoid carcinoma with eosinophilia of the thyroid gland: two case reports and review of the literature. Sukumar JS, Sukumar S, Purohit D, Welch BJ, **Balani J**, Yan S, Hathiramani SS *J Med Case Rep.* 2019 Dec 28;13(1):385. doi: 10.1186/s13256-019-2288-0 PubMed PMID: 31882020

Frame IJ, Joshi PH, Mwangi C, Gunsolus I, De Lemos JA, Das SR, Sarode R, **Balani J**, Apple FS, Muthukumar A. Susceptibility of Cardiac Troponin Assays to Biotin Interference. *Am J Clin Pathol.* 2019 Apr 2; 151(5):486-493. doi: 10.1093/ajcp/aqy172. Pubmed PMID: 30715102

Lama DJ, Safiullah S, Patel RM, Lee TK, **Balani JP**, Zhang L, Okhunov Z, Margulis V, Savage SJ, Uchio E, Landman J. Multi-institutional Evaluation of Upper Urinary Tract Biopsy Using Backloaded Cup Biopsy Forceps, a Nitinol Basket, and Standard Cup Biopsy Forceps. *Urology.* 2018 Jul; 117:89-94. doi: 10.1016/j.urology.2018.03.040. Epub 2018 Apr 6. PubMed PMID: 29630955

Yan SX, Adair CF, **Balani J**, Mansour JC, Gokaslan ST. Solid pseudopapillary neoplasm collides with a well-differentiated pancreatic endocrine neoplasm in an adult man: case report and review of histogenesis. *Am J Clin Pathol.* 2015 Feb; 143(2):283-7. PubMed PMID: 25596255

Monzon FA, Hagenkord JM, Lyons-Weiler MA, **Balani JP**, Parwani AV, Sciulli CM, Li J, Chandran UR, Bastacky SI, Dhir R. Whole genome SNP arrays as a potential diagnostic tool for the detection of characteristic chromosomal aberrations in renal epithelial tumors. *Mod Pathol.* 2008 May; 21(5): 599-608. Epub 2008 Feb 8. PubMed PMID: 18246049.

Kapur P, Rakheja D, **Balani JP**, Roy LC, Amir Khan RH, Hoang MP. Phosphorylated histone H3, Ki-67, p21, fatty acid synthase, and cleaved caspase-3 expression in benign and atypical granular cell tumors. *Arch Pathol Lab Med.* 2007 Jan;131(1):57-64. doi: 10.1043/1543-2165(2007)131[57:PHHKPF]2.0.CO;2. PubMed PMID: 17227124.

Raghavan R, **Balani J**, Perry A, Margraf L, Vono MB, Cai DX, Wyatt RE, Rushing EJ, Bowers DC, Hynan LS, White CL 3rd. Pediatric oligodendrogliomas: a study of molecular alterations on 1p and 19q using fluorescence in situ hybridization. *J Neuropathol Exp Neurol.* 2003 May;62(5):530-7. doi: 10.1093/jnen/62.5.530. PubMed PMID: 12769192.

Mohanty SK, **Balani JP**, Parwani AV. Primitive neuroectodermal tumor arising in a testicular teratoma with retroperitoneal metastasis: report of an interesting case with review of literature. *Urology.* 2007 Oct;70(4): 812.e7-10. doi: 10.1016/j.urology.2007.07.051. PubMed PMID: 17991577.

Mohanty SK, **Balani JP**, Parwani AV. Pleomorphic leiomyosarcoma of the adrenal gland: case report and review of the literature. *Urology.* 2007 Sep;70(3): 591.e5-7. doi: 10.1016/j.urology.2007.07.029. PubMed

PMID: 17905130.

Stanley GA, **Balani JP**, Miller DS, Mansour JC, Schwarz RE. Clinical Evidence: Metastases can Metastasize World J Oncol. 2012 Jun;3(3):138-141. doi: 10.4021/wjon406w. Epub 2012 Jul 5. PubMed PMID: 29147296

Abstracts

Duwayne L. Willett, Ravi Sarode, Craig S. Glazer, Chris Rubio, Dwight H. Oliver, David Wyatt, Samuel A. McDonald, **Jyoti P. Balani**, Francesca Lee, Richard Medford, Ellen Araj, Seth Toomay, James Malter. Learning During a Pandemic: Integrating EHR, Laboratory, and Outcomes Data to Better Understand Implications of a Negative Rapid COVID-19 Test. Poster Presentation in upcoming AMIA 2021 Virtual Clinical Informatics Conference, May 18 - 20, 2021.

J. Xu, **J. Balani**, Z. Chi, P. Gopal, S. Hammer, L. Peng, R. Ram, U. Verma, D. Oliver. Clinical Utilization of a 50-Gene Next-Generation Sequencing Panel in Colorectal Cancer. The Journal of Molecular Diagnostics, Nov 2019 Volume 21, Issue 6

Boktor M, Saraiya N, Moore SA, **Balani J**, Alexander J, Burstein E. Colon Ischemia as Initial Presentation of Amyloidosis: A Rare and Challenging Diagnosis. ACG October 2019 San Antonio, Texas

Building an Anatomic Pathology Report Search Tool Using Business Intelligence Software. USCAP 2019 Annual Meeting, National Harbor, MD

Utility of Social Media and Whole Slide Imaging in Diagnostic Consultations on Urothelial Lesions. USCAP 2019 Annual Meeting, National Harbor, MD

Lama DJ, Safiullah S, Okhunov Z, Spradling K, Youseff R, Lee TK, McDonald TM, Sheth K, Hutchinson R, **Balani J**, Flower K, Bartlett A, Margulis V, Savage S, Landman J. Multi- Institutional Evaluation of Quality of Upper Urinary Tract Biopsy Using BIGopsy Forceps, a 2.4F Nitinol Basket, and Piranha Forceps. Engineering and Urology Society 32nd Annual meeting, Boston, MA May 12, 2017; 2017 World Congress of Endourology Sep 12-16, 2017 Vancouver, British Columbia, Canada

Brinkley G, McAfee L, Fox T, Fry J, Young E, Barnes D, Quinn A, **Balani J**, Sarode R, Lee F. Let My People Sleep. 2017 ASCP Annual Meeting, Chicago, IL, September 6-8, 2017

Bizor D, Lee A, McAfee L, Brinkley G, White S, Wilson V, Jones C, Qualis S, Medina M, **Balani J**, Sarode R, Lee F. Outpatient Laboratory Wait Time Reduction. 2017 ASCP Annual Meeting, Chicago, IL, September 6-8, 2017

Heather D Morris, Nitin J Karandikar, **Jyoti Balani**, Franklin Fuda, Sara Monaghan, Jacqueline Emmons. Detection of Malignant Epithelial Cells in Body Fluids: A Comparison of Flow Cytometry and Cytologic Evaluation. USCAP Annual Meeting, Vancouver, British Columbia, Canada, March 2012

J P Balani, J F Catroppo, T McHale, S Bastacky, F Monzon, A Parwani, R Hrebinko, M Franks and R Dhir. UroVysion Fluorescence in-situ Hybridization (FISH) on Upper Urinary Tract Samples. Platform Presentation, United States and Canadian Academy of Pathologists (USCAP) Meeting, Atlanta, GA, Feb 2006; Laboratory Investigation Vol 86, Suppl 1; 130A; #592

J P Balani, J F Catroppo, T McHale, S Bastacky, F Monzon, A Parwani, R Hrebinko, M Franks and R Dhir. Fluorescence in-situ hybridization (FISH) profile of renal epithelial neoplasms (REN): An institutional experience with 92 consecutive cases. Poster Presentation, USCAP Meeting, Atlanta, GA, Feb 2006; Laboratory Investigation Vol 86, Suppl 1; 130A; #591

J P Balani, J F Catroppo, T McHale, S Bastacky, F Monzon, A Parwani, R Hrebinko, M Franks and R Dhir. Immunohistochemical profile of renal epithelial neoplasms (REN): An institutional experience with 92 consecutive cases. Poster Presentation, United States and Canadian Academy of Pathologists USCAP Meeting, Atlanta, GA, Feb 2006; *Laboratory Investigation* Vol 86, Suppl 1; 129A; #590

Balani J, Raisanen J, et al. Utility of anti-inhibin subunit antibodies in the diagnosis of pituitary adenoma USCAP Annual Meeting, Washington D.C., Mar 2003; *Modern Pathology*

J. Balani, R. Ashfaq, et al. Utility of abdominal fat pad biopsy in the diagnosis of systemic amyloidosis American Society of Cytopathology Annual Meeting, Salt Lake City, Utah, Nov 2002

Balani J, Raghavan R, et al. Pediatric Oligodendrogliomas: Molecular Characteristics USCAP Annual Meeting, Chicago, IL, Feb 2002; *Modern Pathology*

Balani J, Adsay V, et al. Pathologic findings in post-neoadjuvant pancreatectomy specimens USCAP Annual Meeting, Atlanta, GA, Mar 2001; *Modern Pathology*