

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

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Zubair W. Baloch, M.D., PhD

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

1975		Model School, Hyderabad, Pakistan (Matriculation)
1977		Model College, Hyderabad, Pakistan (Intermediate)
1985	MBBS	Liaquat Medical College, Jamshoro Sind Pakistan
1988	M.S.	Hahnemann University, Philadelphia
1991	Ph.D.	Hahnemann University, Philadelphia

Postgraduate Training and Fellowship Appointments:

1991-1995	Resident in Pathology, Hahnemann University, Philadelphia, PA
1994-1995	Chief Resident in Pathology, Hahnemann University, Philadelphia, PA
1995-1996	Oncologic Surgical Pathology Fellow, Memorial Sloan-Kettering Cancer Center, New York, NY
1996-1997	Fellowship in Cytopathology, Hospital of the University of Pennsylvania, Philadelphia, PA

Faculty Appointments:

1993-1994	Instructor in Pathology, Department of Laboratory Animal Science, Hahnemann University, Philadelphia, PA
1995	Instructor in Pathology, Department of Pathology and Laboratory Medicine, Hahnemann University, Philadelphia, PA
1997-2002	Assistant Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine
2002-2007	Associate Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine
2007-present	Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2013-2015	President, Papanicolaou Society of Cytopathology
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Other Appointments:

2008-2015	President, Philadelphia Pathology Society
2011-2017	Chair, American Society of Cytopathology. Companion Society Committee
2012-2013	President Elect, Papanicolaou Society of Cytopathology
2012-2021	Director of Cytopathology Fellowship, Hospital of University of Pennsylvania
2013-2015	Ancillary Techniques Committee, American Association of Clinical Endocrinologists, American Association of Clinical Endocrinologist
2014-2015	Surgical Affairs Committee, American Thyroid Association, American Thyroid Association (ATA)
2016-2020	Committee Member, Thyroid Nodule Task Force, Ame Assoc of Clin Endocrinol
2017-2020	Members of Clinical Competency and Professional Development Committee, American Society of Clinical Pathology
2017-2021	Member Education Committee, United States and Canadian Academy of Pathology
2017-2020	Executive Board Member, American Society of Cytopathology
2019-2021	Member of Treatment Guidelines of Well-Differentiated Thyroid Carcinoma, American Thyroid Association
2019-2021	Member, NPQR Task Force. American Society of Clinical Pathology

Specialty Certification:

1995	American Board of Pathology, Anatomic and Clinical Pathology
1997	American Board of Pathology, Subspecialty Certification in Cytopathology

Licensure:

2017-present	New Jersey
-Present	Pennsylvania

Awards, Honors and Membership in Honorary Societies:

1984	Best Graduate, Liaquat Medical College, Pakistan
1990-1991	Deans List, Hahnemann University, Philadelphia
1991	Who's Who Among Graduate Students
1994	Sigma Xi
2009	Kevin Salhany Teaching Award. Department of Pathology & Laboratory Medicine. University of Pennsylvania Medical

	Center.
2010	Peter C Nowell Teaching Award. Department of Pathology & Laboratory Medicine. University of Pennsylvania Medical Center.
2011-2018	US News Top Doctors
2012-current	Best Doctors in America
2014	Mastership in Pathology. American Society of Clinical Pathology Award
2015	Presidents Award of Service. American Society of Clinical Pathology.
2018-2019	Educator of The Year Award. Papanicolaou Society of Cytopathology.
2018-Current	Philadelphia Magazine Top Doctors
2020	H.P. Smith Award for Distinguished Pathology Educator. American Society of Clinical Pathology.
2021	Simon Flexner Award for Graduate Education. Department of Pathology and Laboratory Medicine. University of Pennsylvania, Perelman School of Medicine.
2022	President's Award. American Society of Cytopathology
2023	Educator of The Year Award. American Society of Cytopathology
2023	Master Clinician. University of Pennsylvania
2024	Dripps Medical Education Award. University of Pennsylvania

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

1995-Present	United States and Canadian Academy of Pathology
1997-Present	Endocrine Pathology Society
2002-Present	Papanicolaou Society (Director Quality Assurance Committee. 2002-2004. Director Practice Guidelines and Quality Assurance Committee. 2005-2009 Chair Annual Scientific Program Committee. 2009-2012 President Papanicolaou Society. 2012-2014

National:

1995-present	American Society of Clinical Pathologists (Educational Committee. Topic Team Leader for Non-gynecologic Cytopathology. 2010-2013 Chair of Scientific Program Committee. 2013-2023
1997-present	American Association for Clinical Endocrinologist
1997-Present	American Society of Cytopathology

1997-Present American Thyroid Association
 1. American Thyroid Association Laboratory Guidelines Committee 2000-2002
 2. Annual Meeting Scientific Program Committee 2014
 2. American Thyroid Association Well-Differentiated Carcinoma Management Guidelines Committee 2021-

1997-Present College of American Pathologist

1999-present Arthur Prudy Stout Society of Surgical Pathologist

2009-Present Endocrine Society

Local:

1991-present Philadelphia Pathology Society (President 2009-2012)

2010-Present Philadelphia Endocrine Society

2010-2020 University of Pennsylvania Medical Center. Tissue Committee.

Editorial Positions:

1999-Present Editorial Board & Editor-in-Chief. Diagnostic Cytopathology
 2000-2012 Editorial Board Head and Neck
 2003-Present Editorial Board Endocrine Pathology
 2003-Present Editorial Board Advances in Anatomic Pathology
 2004-Present Editorial Board Cytojournal
 2005-Present Editorial Board Cancer Cytopathology
 2008-present Reviewer for Journal of Endocrinology & Metabolism
 2010-Present Editorial Board: Acta Cytologica
 2013-Present Editorial Board. Journal of American Society of Cytopathology.
 2016-Present Section Editor. Fine-Needle Aspiration. Journal of American Society of Cytopathology.
 2018-2019 Guest Editor. Special Issue of Ancillary Techniques in Cytopathology. Acta Cytologica
 2021-present Editor-in-Chief
 Diagnostic Cytopathology
 2022-Present Guest Editor, Sem Diag. Pathology.
 -Present Reviewer for Histochemistry
 -Present Reviewer for Archives of Pathology & Laboratory Medicine
 -Present Reviewer for: Thyroid
 -Present Reviewer for Modern Pathology
 -Present Reviewer for Lancet

Academic and Institutional Committees:

2002-2020 Medical School Curriculum Committee

2003-2009	UPHS Clinical Trials & Scientific Review Committee.
2009-Present	Hospital of University of Pennsylvania Tissue Committee.
2012-2014	Pathology Department Outreach Committee
2013-2015	UPHS Pathology Policy Integration Committee
2014-2015	Pathology Residency Clinical Competency Committee
2016-2019	Pathology Residency Exit Interview Committee

Major Academic and Clinical Teaching Responsibilities:

1997-present	Pathology Lab Teaching, Curriculum 200 and 2000
1997-present	Pathology Residents Didactics and Pathology Slide Unknown Conferences
1997-2019	ENT lecture - Thyroid cytology (ENT residents and fellows)
1998-2020	Director, Endocrine Pathology Section, Curriculum 2000
1998-2000	Quarterly ENT-Pathology and Radiology Conference
1998-2000	ENT lecture- Thyroid cytology and histology x2 (ENT residents and fellows)
1999-2020	Pathology Coordinator Monthly Endocrine Pathology Conference
1999-2020	Thyroid Pathology. Yearly Lecture to Endocrine Fellows.
2011-Present	Children Hospital of Philadelphia. Thyroid Tumor Board.
2014-2020	ENT Pathology Lecture, UPENN Perelman School of Medicine
-2003	Pathology Department Weekly Grand Rounds, University of Pennsylvania Hospital. Thyroid FNA: past, present and future

Lectures by Invitation: Sample listed below

Nov, 2022	Quest for Perfection Updating "The Bethesda System for Reporting Thyroid Cytopathology" (TBSRTC)- Overview. International Congress of Cytology. Baltimore, MD.
Nov, 2022	"Beyond All Limits: Challenging Cases in Thyroid Cytopathology". Case Based Discussion. International Congress of Cytology. Baltimore, MD.
Nov, 2022	A Practical Cases-based Approach to the Cytomorphologic Diagnosis and Reporting of Salivary Gland Cytology Using the Second Edition of the Milan System. Workshop. International Congress of Cytology. Baltimore, MD.
Nov, 2022	Indeterminate Head and Neck Cytology Specimens: Algorithmic Approach with Histopathology Follow-up. Video-Microscopy Tutorial. International Congress of Cytopathology. Baltimore, MD.
Nov, 2022	Cellular and Patterned Based Approach to Thyroid Cytomorphology. Cytopathology Tutorial. International Congress of Cytopathology. Baltimore, MD.
Nov, 2022	Algorithmic Approach to Thyroid Pathology in View of WHO 2022 Thyroid Tumor Classification. Turkish Society of Endocrinologists Meeting. Virtual
Nov, 2022	Algorithmic Approach to Everyday Thyroid Pathology. Ohio Pathology Society Annual Meeting. Virtual
Nov, 2022	The Role of Cytopathology and Categorization Systems in the

	Multidisciplinary Approach to Cancer Diagnosis and Management. Papanicolaou Society of Cytopathology Companion Session at International Cytology Congress. Baltimore, MD.
Feb, 2023	Journal Club. Thyroid Cancer Case Discussion. THANC Foundation. Virtual
Mar, 2023	Current and Future Paradigms in the Management of Thyroid Nodules. Papanicolaou Society of Cytopathology Companion Session. United States and Canadian Academy of Pathology Annual Meeting. New Orleans, LA.
Apr, 2023	Current and Future Paradigms in the Management of Thyroid Nodules. Indiana Association of Pathologists Annual Meeting. Indianapolis, IN.
Apr, 2023	Current and Future Paradigms in the Management of Thyroid Nodules. Indiana Association of Pathologists Annual Meeting. Indianapolis, IN.
Apr, 2023	Algorithmic Approach to Adrenal Pheochromocytoma. Indiana Association of Pathologists Annual Meeting. Indiana, IN.
May, 2023	Algorithmic Approach to Management of Thyroid Nodules: Perspectives and Discussions. Africa Talk Series - Virtual. American Society of Clinical Pathology.
May, 2023	Algorithmic Approach to Thyroid Pathology. Africa Talk Series - Virtual. American Society of Clinical Pathology.
May, 2023	Algorithmic Approach to Management of Thyroid Nodules: Perspectives and Discussions. International Academy of Pathology, Greece Meeting, Virtual.
May, 2023	Papillary Thyroid Carcinoma and Subtypes. Internal Academy of Pathology, Greece Meeting. Virtual.
May, 2023	Oncocytic Lesions of Thyroid Gland: _Interesting, Challenging and Controversial. International Academy of Pathology, Greece Meeting. Virtual.
Jul, 2023	Head and Neck Cytopathology: Interesting Cases. Royal College of Pathologist. Cytology Study Day. Virtual Meeting.
Jul, 2023	Salivary Gland Cytopathology. International Academy of Cytopathology & Pakistan Association of Pathologists Tutorial. Virtual Talk.
Jul, 2023	Head and Neck Cytopathology with Focus of Cystic Neck Lesions. International Academy of Cytopathology & Pakistan Association of Pathologists Tutorial. Virtual Talk.
Jul, 2023	Head and Neck Cytology. Slide Seminar. International Academy of Cytopathology & Pakistan Association of Pathologists Tutorial. Virtual Talk.

Organizing Roles in Scientific Meetings: A sample listed below:

Mar, 2019	Moderator Cytopathology Specialty Conference. United States and Canadian Academy of Pathology. Baltimore, MD
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- Mar, 2019 Moderator. Thyroid Cytopathology Symposium. International Congress of Cytology Meeting. Sydney, AU
- May, 2019 To Perform or Not to Perform ROSE, That is the Question? Papanicolaou Society of Cytopathology Companion Session. International Congress of Cytology Meeting. Sydney, AU
- May, 2019 Case of a Deceptive Lung Nodule. Lung Cytopathology Seminar. International Congress of Cytology Meeting. Sydney, AU
- Jun, 2019 Moderator Interesting Cytopathologic Cases (Cytology/Histology/Molecular Correlation). World Congress on Thyroid Cancer. Rome, Italy.
- Jun, 2019 Update on Thyroid Cytology and Histology. World Congress on Thyroid Cancer. Rome, Italy
- Dec, 2020 Co-chair of the joint cytopathology tutorial - International Academy of Cytopathology & Mexican Academy of Cytopathology. Virtual Meeting
- Jul, 2021 Co-chair of the joint cytopathology tutorial - International Academy of Cytopathology & Korean Society of Cytopathology. Virtual Meeting
- Nov, 2021 Chair - Scientific Program Committee. American Society of Cytopathology Annual Meeting Las Vegas
- Nov, 2022 Co-Chair - Scientific Program Committee. Combined American Society of Cytopathology and International Congress of Cytopathology Annual Meeting Baltimore, MD
- Nov, 2023 Chair Annual Meeting Scientific Program Committee. American Society of Cytopathology. Austin Texas

Bibliography:

Research Publications, peer reviewed (print or other media): 193 + listed below

194. Nikiforova, M.N., Lepe, M., Tolino, L.A., Miller, M.E., Otori, N.P., Wald, A.I., Landau, M.S., Kaya, C., Malapele, U., Bellevicine, C., Trocone, G., Nikiforov, Y.E., Baloch, Z.: Thyroid cytology smear slides: An untapped resource for ThyroSeq testing. Cancer Cytopathol 129: 33-42, January 2021. PMID: 32697035
195. Zhao X, Kotch C, Fox E, Surrey LF, Wertheim GB, Baloch ZW, Lin F, Pillai V, Luo M, Kreiger PA, Pogoriler JE, Linn RL, Russo PA, Santi M, Resnick AC, Storm PB, Hunger SP, Bauer AJ, Li MM.: NTRK Fusions Identified in Pediatric Tumors: The Frequency, Fusion Partners, and Clinical Outcome. JCO Precis

Oncol 1: PO, Jan 2021. PMID: PMC8140782

196. Desai D, Lepe M, Baloch ZW, Mandel SJ: ThyroSeq v3 for Bethesda III and IV: An institutional experience. Cancer Cytopathol 129(2): 164-170, Feb 2021.
197. Hosseini SM, Resta IT, Baloch ZW.: Diagnostic performance of Milan system for reporting salivary gland cytopathology: A prospective study. Diagn Cytopathol 27(3): 174-184, Mar 2021.
198. Nakaguro M, Faquin WC, Baloch ZW, Cantley RL, Compton ML, Ely KA, Holmes BJ, Hu R, Kerr DA, Montone KT, Nishino M, Pantanowitz L, Rossi ED, Sadow PM.: Fine needle aspiration of salivary gland carcinomas with high-grade transformation: A multi-institutional study of 22 cases and review of the literature. Cancer Cytopathol 129: 318-325, Apr 2021.
199. Gubbiotti MA, Montone K, Zhang P, Livolsi V, Baloch Z.: A contemporary update on hyalinizing clear cell carcinoma: compilation of all in-house cases at our institution and a literature review spanning 2015-2020. Hum Pathol 111: 45-51, May 2021.
200. Garber JR, Papini E, Frasoldati A, Lupo MA, Harrell RM, Parangi S, Patkar V, Baloch ZW, Pessah-Pollack R, Hegedus L, Crescenzi A, Lubitz CC, Paschke R, Randolph GW, Guglielmi R, Lombardi CP, Gharib H.: American Association of Clinical Endocrinology And Associazione Medici Endocrinologi Thyroid Nodule Algorithmic Tool. Endocr Pract 27(7): 649-660, Jul 2021.
201. Gubbiotti MA, Livolsi V, Montone K, Baloch Z.: Papillary Thyroid Microcarcinomas: Does Sub-typing Predict Aggressive Clinical Behavior? Hum Pathol 114: 28-35, Aug 2021.
202. Jia, M.R.Baran, J.A.Bauer, A.J.Isaza, A.Surrey, L.F.Bhatti, T.McGrath, C.Jalaly, J.Mostoufi-Moab, S.Adzick, N.S.Kazahaya, K.Sisko, L.Franco, A.T.Escobar, F.A.Krishnamurthy, G.Patel, T.Baloch, Z.: Utility of Fine-Needle Aspirations to Diagnose Pediatric Thyroid Nodules. Horm Res Pediatr 94(7), Sept 2021.
203. Viswanathan, K.Sadow, P.M.Maleki, Z.Nishino, M.Baloch, Z.Abott, T.E.Rao, R.Faquin, W.C.: Cytomorphologic features of intraductal salivary gland carcinoma: A multi-institutional study of 13 FNA cases with histologic, molecular, and clinical correlations. Cancer Cytopathol 129(2): 928-946, Dec 2021. PMID: 34597458
204. Katsakhyan, L.Jacobson, A.M.Budina, A.Baloch, Z.: Practical Scientific Writing and Publishing in Anatomic Pathology. Am J Clin Pathol 157(3): 451-456, Mar 2022.
205. Gubbiotti, M.LiVolsi, V.A.Montone, K.Baloch, Z.: A Cyst-ematic Analysis of the

Adrenal Gland: A Compilation of Primary Cystic Lesions From Our Institution and Review of the Literature. Am J Clin Pathol 157(4): 531-539, Apr 2022.
PMCID: 34596217

206. Wiles AB, Gabrielson M, Baloch ZW, Faquin WC, Jo VY, Callegari F, Kholova I, Song S, Centeno BA, Ali SZ, Tommola S, Fadda G, Petrone G, Wang H, Rossi ED, Pantanowitz L, Maleki Z.: Secretory carcinoma of the salivary gland, a rare entity: An international multi-institutional study. Cancer Cytopathol Apr 2022.
207. Maleki Z, Saoud C, Viswanathan K, Kilic I, Tommola E, Griffin DT, Heider A, Petrone G, Jo VY, Centeno BA, Saieg M, Mikou P, Fadda G, Ali SZ, Kholová I, Wojcik EM, Barkan GA, Eisele DW, Bellevicine C, Vigliar E, Wiles AB, Al-Ibraheemi A, Allison DB, Dixon GR, Chandra A, Walsh JM, Baloch ZW, Faquin WC, Krane JF, Rossi ED, Pantanowitz L, Tronccone G, Callegari FM, Klijanienko J.: Application of the Milan System for Reporting Salivary Gland Cytopathology in pediatric patients: An international, multi-institutional study. Cancer Cytopathol 130(5): 370-380, May 2022.
208. Tabibi S, Gabrielson M, Saoud C, Davis K, Wangsiricharoen S, Lu R, Tondi Resta I, Viswanathan K, Faquin WC, Baloch Z, Maleki Z.: Ancillary studies on cell blocks from fine needle aspiration specimens of salivary gland lesions: A multi-institutional study. Diagn Cytopathol 50(5): 235-252, May 2022. PMCID: PMC9303557
209. Vigilar, E.Pisapia, P.Dello Iacovo, F.Alcaraz-Mateos, E.Ali, G.Ali, S.Z.Baloch, Zet al.: COVID-19 pandemic impact on cytopathology practice in the post-lockdown period: An international, multicenter study. Cancer Cytopathol 130(5): 344-351, May 2022.
210. Katsakhyan L, Preciado C, Baloch ZW.: Pathology Residency Curricula. Am J Clin Pathol Jun 2022.
211. Baran JA, Halada S, Bauer AJ, Ricarte-Filho JC, Isaza A, Surrey LF, McGrath C, Bhatti T, Jalaly J, Mostoufi-Moab S, Franco AT, Adzick NS, Kazahaya K, Cahill AM, Baloch Z.: Indeterminate Thyroid Fine-Needle Aspirations in Pediatrics: Exploring the Clinicopathologic Features and Utility of Molecular Profiling. Horm Res Paediatr Jul 2022.
212. Layfield LJ, Esebua M, Pantanowitz L, Maleki Z, Vazmitsel M, Baloch Z, Cantley RL, Schmidt R.: Salivary gland neoplasms with basaloid features in the era of the Milan system for reporting salivary gland cytology: Classification and interobserver agreement. Diagn Cytopathol 50(7): 341-349, Jul 2022.
213. Pusztaszeri MP, Florianova L, Payne R, Baloch ZW.: Spindle cell variant of follicular thyroid carcinoma: An extremely unusual case and review of the literature. Diagn Cytopathol Jul 2022.

214. Gubbiotti MA, Jalaly J, Baloch Z.: Making a case for the success of Milan system for reporting salivary gland cytopathology. Diagn Cytopathol 50(9): 451-455, Sept 2022.
215. Patel P, Prater J, Baloch Z, Mayrin JV.: Spectrum of thyroid disease in a single patient: A case of papillary thyroid carcinoma in a patient with Graves' disease and Hashimoto's thyroiditis. Clin Case Rep 10: e06361, Sep 2022. PMID: PMC9513194
216. Halada S, Baran JA, Bauer AJ, Ricarte-Filho JC, Isaza A, Patel T, Franco AT, Mostoufi-Moab S, Adzick NS, Kazahaya K, Bhatti TR, Baloch Z, Surrey LF.: Clinicopathologic Characteristics of Pediatric Follicular Variant of Papillary Thyroid Carcinoma Subtypes: A Retrospective Cohort Study. Thyroid 2022. PMID: PMC9700371
217. Ricarte-Filho JC, Casado-Medrano V, Reichenberger E, Spangler Z, Scheerer M, Isaza A, Baran J, Patel T, MacFarland SP, Brodeur GM, Stewart DR, Baloch Z, Bauer AJ, Wasserman JD, Franco AT.: DICER1 RNase IIIb domain mutations trigger widespread miRNA dysregulation and MAPK activation in pediatric thyroid cancer. Front Endocrinol (Lausanne) 14: 1083382, Feb 2023. PMID: PMC9990750
218. Andrianus S, Gubbiotti MA, Mandel SJ, Nikiforov YE, Baloch Z.: Unraveling the significance of TSHR mutations in indeterminate thyroid cytology specimens. Diagn Cytopathol Apr 2023.
219. Chiosea S, Hodak SP, Yip L, Abraham D, Baldwin C, Baloch Z, Gulec SA, Hannoush ZC, Haugen BR, Joseph L, Kargi AY, Khanafshar E, Livhits MJ, McIver B, Patel K, Patel SG, Randolph GW, Shaha AR, Sharma J, Stathatos N, van Zante A, Carty SE, Nikiforov YE, Nikiforova MN.: Molecular Profiling of 50,734 Bethesda III-VI Thyroid Nodules by ThyroSeq v3: Implications for Personalized Management. J Clin Endocrinol Metab Apr 2023.
220. Gubbiotti MA, Andrianus S, Sakhi R, Zhang Q, Montone K, Jalaly JB, Baloch Z.: Does the presence of capsule influence prognosis in poorly differentiated thyroid carcinoma? Hum Pathol 136: 96-104, Apr 2023.
221. Lam, H.Saoud, C.Shi, Q.Wong, KS.Cibas, ES.Rooper, LM.Baloch, Z.Ali, SZ.: Degenerative atypia in benign thyroid nodules: a potential diagnostic pitfall on fine-needle aspiration [Epub ahead of Print]. J Am Soc Cytol April 2023.
222. Tondi-Resta I, Hobday SB, Gubbiotti MA, Jalaly JB, Rassekh CH, Montone KT, Baloch ZW.: Carcinoma Ex Pleomorphic Adenomas: An Institutional Experience and Literature Review. Am J Clin Pathol 159: 502-515, May 2023.

223. Gubbiotti MA, Andrianus S, Baloch Z.: THADA-IGF2BP3 fusions detected in fine-needle aspiration specimens of thyroid nodules: An institutional experience. Diagn Cytopathol 51(6): 349-355, June 2023.

Research Publications, peer-reviewed reviews: 47

Editorials, Reviews, Chapters, including participation in committee reports (print or other media): 83