

SHARON MAIR, MD, FACP, FACCP

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Dr. Sharon Mair is a board-certified surgical and cyto-pathologist with over 30 years of clinical pathology practice experience, independent expertise and practice in research activities, and special expertise in legislation, regulations and standards of human subject research and biorepository operations.

CURRENT ROLE

Cutting Edge Biomed, Inc.

San Diego, CA

Medical Director, Chief Scientific Advisor

2015-Present

About Us

- We are a pathologist-run, pathology-centric, and pathology-services-specific Contract Research Organization. Our biorepository includes vetted, quality assured, de-identified formalin fixed paraffin embedded tissues and tissue-associated data that has been validated for accuracy, authenticity, and integrity. We ensure our biospecimens are standardized, well-fixed, and well preserved, enabling research outcomes to be robust, accurate, reliable, reproducible, and meaningful. Specimen selection and quality assurance is pathologist driven to ensure cases best meet project goals and study inclusion criteria. A pathologist reviews every case to ensure accuracy of diagnosis and to ensure the biospecimen is of sufficient volume to allow completion of testing, specific to study methodology.
- Our commitment to optimal specimen selection and data quality and congruence differentiates us from our competition and saves our clients both time and money.
- In addition to our biorepository, we offer a wide range of histopathology and consultation services, including support for IRB applications and guidance related to study design.
- We are driven by a passion and commitment to help accelerate discovery and development that will bring new and improved diagnostic tests, prognostic indicators, risk assessment tools, therapies, and devices to market sooner for improved patient outcomes.

Our mission

- To provide a comprehensive menu of pathology-related materials, consultation, and histotechnology services. We serve as a “one-stop-shop” for researchers needing human tissue biospecimens and data.
- To increase researcher-access to biospecimens. We strive to make biospecimens available, with equal opportunity to all reputable researchers, without bias or restriction, be they large or small, well-established or “start-up”, for-profit or non-profit, private, public, academic or government organizations.
- To ensure all biospecimens are standardized, well-fixed, and well preserved.
- To ensure integrity, authenticity, accuracy, and reproducibility of biospecimen clinicopathologic data.
- To maintain all ethical standards of patient confidentiality and patient rights per the Declaration of Helsinki, consistent with GCP (Good Clinical Practice), the provisions of the Health Insurance Portability and accountability Act of 1966 (HIPAA), and the applicable regulatory requirement(s) according to The Code of Federal Regulations Title 45, Part 46 which covers the protection of human subjects in “research (which is) subject to regulation”.
- To maintain compliance with all regulatory standards and mandates for tissue and patient data banking.
- To be cost efficient and price competitive.
- To ensure project completion and delivery within promised time frames.

Associations

- Healthcare institutions and laboratories, both hospital-based and non-hospital based, representing biospecimen donors.

PRIOR EXPERIENCE

Pacific Rim Medical Group

San Diego, CA

Member, Board of Directors

2012-2014

Medical Director Responsibilities for the following labs:

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- All Sharp Healthcare hospital laboratories in San Diego County (Sharp Memorial, Mary Birch, Chula Vista, Coronado and Grossmont)
- Quest (San Diego, California)
- El Centro Regional Medical Center (El Centro, Imperial Valley, California)
- Promise Hospital (San Diego, California)
- Pacific Rim Laboratory (San Diego, California)
- Vantage Point Laboratory Partners (Sorrento Valley, San Diego, California)
- Fertility Center of California, Sperm Bank (La Mesa, California)

Analytic Pathology Medical Group (APMG) Sharp Grossmont Hospital (La Mesa, CA)

Chairman, Department of Pathology and Laboratory Medicine 1996-2014

Medical Director, Department of Cytopathology

Medical Director, Outpatient Fine Needle Aspiration Clinic

Surgical and Cytopathologist

Responsibilities

- Surgical Pathology and Cytopathology diagnostic, prognostic and targeted therapy evaluation and reporting, including cancer staging synoptic reports
- Teaching/Staff Education
- Quality Assurance and Improvement
- Laboratory Managerial and Leadership Responsibilities
- Expert Witness Medico-Legal Cases
- Performance of Fine Needle Aspiration sampling including appropriate patient consultation (history and physical examination), specimen triage for ancillary testing and diagnostic interpretations

Hospital Committee Appointments

- Medical Executive Committee (1997-2001; 2012-2014)
- Pathology Supervisory Committee (1996-2014)
- Physician Wellness Advisory Committee (2000-2014)
- Cancer Committee (2002-2014)
- Accreditations from the Commission on Cancer and the American College of Surgeons
- Breast Cancer Committee (2010-2014)
- Accreditations from the National Accreditation Program for Breast Centers (NAPBC).
- Family Practice, Obstetrics and Gynecology, General Surgery, Internal Medicine and Radiology supervisory committees (2000-2002)
- Quality Resources Management Committee (2001-2002; 2005-2007)
- Tissue Committee (2011-2014)

Aurora Healthcare Laboratories Saint Luke's Medical Center (Milwaukee, WI)

Surgical Pathologist and Cytopathologist 1995-1996

Pathology Medical Group Akron General Hospital (Akron, OH)

Director Department of Cytopathology

Medical Director School of Cytotechnology

Director Fine needle Aspiration Clinic

Surgical Pathologist, Cytopathologist 1992-1995

EDUCATION

Mount Sinai Medical Center Cleveland, OH

- Fellow, Cytopathology (1991-1992)

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- Chief Resident, Pathology (1990-1991)
- Resident, Surgical Pathology and Pathology Researcher (1998-1990)

South African Institute for Medical Research

Johannesburg, South Africa

- Resident, Cytopathology (1986-1998)

Johannesburg General Hospital

Johannesburg, South Africa

- Internship, Internal Medicine and Surgery (1985)

University of the Witwatersrand

Johannesburg, South Africa

- Medical school (1979-1984)

CERTIFICATIONS AND LICENSURES

- 1995: Authorized Medical Licensure, State Medical Boards of California, Illinois and Wisconsin
- 1995: Certification in Cytopathology; Diplomat of the American Board of Pathology/Cytopathology
- 1992: Authorized Medical Licensure, State medical Board of Ohio
- 1991: Certification in anatomic pathology; Diplomat of the American Board of Pathology
- 1990: FLEX Examination (American Federal Licensing Examination)
- 1985: Registered Medical Practitioner, South African Medical and Dental Council
- 1984: ECFMG (Foreign medical graduate's examination)
- 1984: M.B.B.Ch University of the Witwatersrand, Johannesburg South Africa

HONORS AND AWARDS

- 2012: Eleventh Top Read Pathology Article of the Year: A Search for Reliable Markers of Prognosis in Prostate Cancer. A Study of 240 Cases. American Journal of Clinical Pathology, June 20
- 2011: Finalist in Best Abstract Competition, ASCP/WASPaLM XXVI World Congress, Las Vegas, Nevada. Abstract 476: A Search for Reliable Markers of Prognosis in Prostate Cancer. A Study of 240 Cases.
- 2011: Abstract Accepted for Poster and e-Poster Presentation, ASCP/WASPaLM XXVI World Congress, Las Vegas, Nevada. Abstract 476; Poster 121: A Search for Reliable Markers of Prognosis in Prostate Cancer. A Study of 240 Cases
- 2011: Scientific Advisor to Awardees of:
 - Senior Division Life Sciences Sweepstakes Winner Research Project, Greater San Diego Science and Engineering Fair (GSDSEF)
 - Kaiser Permanente Professional Society Award for Excellence in Research in Medicine and Health Sciences, GSDSEF
 - American Statistical Society Award for Excellence in Biostatistics in a Research Project, GSDSEF
 - First Place Prize for Research in Molecular Biochemistry, California State Science and Engineering Fair (CSSEF)
 - Los Angeles Biomed. Award for Excellence in Molecular Biology, CSSEF
 - Fourth Place Award for Project in Medicine and Health Sciences, INTEL ISEF (International Science and Engineering Fair)
 - American Statistical Society Honorable Mention INTEL ISEF
- 2009: Physician of Excellence Award in Pathology and Cytopathology. Greater San Diego County Society of Physicians.
- 1993: Poster Presentation, Annual Meeting Ohio Society of Cytology: High Grade Immunoblastic Lymphoma Associated with Waldenstrom's Macroglobulinemia Diagnosed by Aspiration Cytology with Immunostains. Cleveland, Ohio.
- 1992: Poster Presentation, Annual Meeting American College of Gastroenterology: Helicobacter pylori Monoclonal Antibody Staining in Pediatric Peptic Disease. Miami Beach, Florida.
- 1991: Second Prize, Platform Presentation, Original Research: Cytology of Stromal Lesions of the Breast. Cleveland Society of Pathologists. Cleveland Ohio.
- 1991: Lead Article with Editorial: Intraoperative Surgical Specimen Evaluation: Frozen Section, Cytology or Both? A Comparative Study of 206 Cases. American Journal of Clinical Pathology. 96: 8-14, 1991

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- 1990: Poster Presentation, Fall Meeting, American Society of Clinical Pathologists: Intraoperative Surgical Specimen Evaluation. Dallas, Texas.
- 1990: Neville Proctor Prize for Best Scientific Paper: Neuroendocrine Tumors Below the Diaphragm. The South African Institute for Medical Research. Johannesburg, South Africa.
- 1989: First Prize, Platform Presentation, Original Research: Fine Needle Aspiration Cytology-Is Aspiration Suction Necessary? Cleveland Society of Pathologists. Cleveland, Ohio.

GUEST LECTURES AND PRESENTATIONS

- 2011: A Search for Reliable Markers of Prognosis in Prostate Cancer. Grossmont Hospital Administrative Review Committee, Sharp Healthcare IRB Committee and Sharp Grossmont Tumor Registry.
- 2011: A Search for Reliable Markers of Prognosis in Prostate Cancer. A Study of 240 Cases. Presentation to Headmaster, STEM program Faculty and Advanced Placement Stem Students, San Diego Jewish Academy, San Diego, California.
- 2009: The Role of Cytology in the Management of Palpable Masses. Medical Symposium. Maimonides Society of Adut Yeshurun. La Jolla, California.
- 2009: Fine Needle Aspiration of Palpable Nodules: From Microscopy to Molecular Cytogenetics. Grand Rounds. Grossmont Hospital, La Mesa, California.
- 2002: The Role of Fine Needle Aspiration Cytology in the Management of Thyroid Nodules. Grand Rounds. Grossmont Hospital, La Mesa, California.
- 2000: Breast Health and Wellness. Panel Discussion, Radio Health Education. Channel AM 1360, KPOP, San Diego, California.
- 1999: Cytology and Women's Health – The Role of Fine Needle Aspiration in the Diagnosis of Breast Disease. Guest Lecture. Physiotherapy Associates of San Diego, La Jolla, California.
- 1996: The Role of Cytology in the Management of Medical Patients. Grand Rounds. Grossmont Hospital, La Mesa, California.
- 1995: Cervical and Breast Cancer Screening Modalities. Televised Panel Discussion, Center Focus, Channel 23 Television, Akron, Ohio.
- 1994: Cytology and Women's Health. Guest Lecture. Akron General Medical Center, Akron, Ohio.
- 1993: Cytology of the Breast. Ohio Society of Pathology Annual Meeting, Cleveland, Ohio.

PUBLICATIONS

1. Tradonsky AN, Rubin TY, Beck R, Ring R, Seitz R and Mair S. A Search for Reliable Markers of Prognosis in Prostate Cancer: A Study of 240 Cases. *American Journal of Clinical Pathology*. Jun 137 (6): 918-30, 2012
2. Levine M, Kaye L, Mair S and Bates J. Multifocal Fibrosclerosis. Report of a Case of Bilateral Idiopathic Sclerosing Pseudotumor and Retroperitoneal Fibrosis. *Archives of Ophthalmology* 111 841-943, 1993.
3. Mair S, Lash RH and Mendelsohn G. Aspiration Cytology of Stromal Breast Lesions: Roles and Limitations. *American Journal of Clinical Pathology* 96: 495, 1991
4. Mair S, Lash RH, Mendelsohn G and Suskin D. Intraoperative Surgical Specimen Evaluation: Frozen Section, Cytology or Both? A Comparative Study of 206 Cases. *American Journal of Clinical Pathology* 96: 8-14, 1991
5. Mair S, Dunbar F, Becker PJ and DuPlessis W. Fine Needle Aspiration Cytology – Is Aspiration Suction Necessary? A Study of 100 Masses in Varied Sites. *Acta Cytoologica* 33 (3) 1989
6. Leiman G and Mair S. Aspiration Cytology of Neuroendocrine Carcinomas below the Diaphragm. *Diagnostic Cytopathology* 5 (3), 1989
7. Mair S. Small Cell Undifferentiated Carcinoma of the Parotid Gland. *Abstracts International*, 1989
8. Mair S. Curschman's Spirals in Fine Needle Aspiration Cytology: A Case Presentation. *Acta Cytologica* 33 (6):903, 1989
9. Mair S and Leiman G. Benign Neurilemmoma Masquerading as a Pleomorphic Adenoma. *Acta Cytologica* 33 (6): 907, 1989
10. Mair S, Leiman G and Levinsohn D. Aspiration Cytology of Parotid Sarcoidosis. *Acta Cytologica* Apr-May 1989
11. Mair S, Phillips JI and Cohen R. Small Cell Undifferentiated Carcinoma of the Parotid Gland: Cytopathology and Ultrastructure of a Neuroendocrine Variant. *Acta Cytologica* Apr-may 1989
12. Vellet D, Leiman G, Mair, S and Bilchik A. Fine Needle Aspiration Cytology of Mucinous Cystadenocarcinoma of the Pancreas: Further Observations. *Acta Cytologica* 21 (1) Jan-feb 1998

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REFERENCES

- Available upon request