

Stanford



Amy Lo

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CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Dr. Amy Lo is a pathologist with board certification in anatomic pathology, clinical pathology and molecular genetic pathology. She completed her MD and MS at the University of Illinois at Chicago and her residency in both anatomic and clinical pathology at Northwestern University. She then joined the faculty at Northwestern University as a Clinical Instructor and Advanced Gastrointestinal/Surgical Pathology Fellow. Amy then completed a molecular genetic pathology fellowship at Stanford University.

In 2016, Amy joined Genentech as research pathology scientist supporting drug research and development with a focus in oncology and individualized drug development.

Additionally, Amy continues clinical work as an Adjunct Clinical Associate Professor in pathology at Stanford University and Lucille Packard's Children's Hospital.

CLINICAL FOCUS

- Anatomic and Clinical Pathology

PROFESSIONAL EDUCATION

- Board Certification: Molecular Genetic Pathology, American Board of Pathology (2016)
- Fellowship: Stanford University Department of Pathology (2016) CA
- Fellowship: Northwestern University Medical Center (2015) IL
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2014)
- Residency: Northwestern University Medical Center (2014) IL
- Medical Education: University of Illinois at Chicago College of Medicine (2010) IL

Publications

PUBLICATIONS

- **MyPathway Human Epidermal Growth Factor Receptor 2 Basket Study: Pertuzumab + Trastuzumab Treatment of a Tissue-Agnostic Cohort of Patients With Human Epidermal Growth Factor Receptor 2-Altered Advanced Solid Tumors.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*

- Sweeney, C. J., Hainsworth, J. D., Bose, R., Burris, H. A., Kurzrock, R., Swanton, C., Friedman, C. F., Spigel, D. R., Szado, T., Schulze, K., Price, R., Malato, J., Lo, et al
2023: JCO2202636
- **T cell-dependent bispecific antibodies alter organ-specific endothelial cell-T cell interaction** *EMBO REPORTS*
Himmels, P., Nguyen, T., Mitzner, M., Arrazate, A., Yeung, S., Burton, J., Clark, R., Totpal, K., Jesudason, R., Yang, A., Solon, M., Eastham, J., Modrusan, et al
2023: e55532
 - **Standardized Processing for Formalin-Fixed, Paraffin-Embedded Cell Pellet Immunohistochemistry Controls** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
Havnar, C., Hotzel, K., Espiritu, C., Lo, A., Webster, J. D.
2022
 - **Origins and Timing of Emerging Lesions in Advanced Renal Cell Carcinoma.** *Molecular cancer research : MCR*
Wallace, A., Porten, S. P., Lo, A. A., Oreper, D., Lounsbury, N., Havnar, C., Pechuan-Jorge, X., Zill, O. A., Meng, M. V.
2022; 20 (6): 909-922
 - **Novel Anti-LY6G6D/CD3 T Cell-Dependent Bispecific Antibody for the Treatment of Colorectal Cancer.** *Molecular cancer therapeutics*
Wang, P., Sun, L. L., Clark, R., Hristopoulos, M., Chiu, C. P., Dillon, M., Lin, W., Lo, A. A., Chalasani, S., Das Thakur, M., Zimmerman Savill, K. M., Rougé, L., Lupardus, et al
2022
 - **Indication-specific tumor evolution and its impact on neoantigen targeting and biomarkers for individualized cancer immunotherapies** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*
Lo, A. A., Wallace, A., Oreper, D., Lounsbury, N., Havnar, C., Pechuan-Jorge, X., Wu, T. D., Bourgon, R., Jones, R., Krogh, K., Yang, G., Zill, O. A.
2021; 9 (10)
 - **Single-cell dissection of cellular components and interactions shaping the tumor immune phenotypes in ovarian cancer** *CANCER CELL*
Hornburg, M., Desbois, M., Lu, S., Guan, Y., Lo, A. A., Kaufman, S., Elrod, A., Lotstein, A., DesRochers, T. M., Munoz-Rodriguez, J. L., Wang, X., Giltane, J., Mayba, et al
2021; 39 (7): 928-+
 - **Cutaneous desmoid-type fibromatosis: a rare case with molecular profiling.** *Journal of cutaneous pathology*
Aghighi, M., Cloutier, J. M., Hoover, W. D., Roy, K., Lo, A. A., Brown, R. A.
2021
 - **Anti-LYPD1/CD3 T-Cell-Dependent Bispecific Antibody for the Treatment of Ovarian Cancer** *MOLECULAR CANCER THERAPEUTICS*
Lo, A. A., Johnston, J., Li, J., Mandikian, D., Hristopoulos, M., Clark, R., Nickles, D., Liang, W., Hotzel, K., Dunlap, D., Thinh Pham, Cai, H., Ovacik, M., et al
2021; 20 (4): 716-725
 - **Innovative Tumor Tissue Dissection Tool for Molecular Oncology Diagnostics** *JOURNAL OF MOLECULAR DIAGNOSTICS*
Javey, M., Reinsch, C., Feldkamp, M., Siemann, S., Blueher, A., Woestmann, C., Cai, L., Tran, I., May, T., Havnar, C., Lo, A. A., Hinzmann, B., Heilek, et al
2021; 23 (4): 399-406
 - **Automated Dissection Protocol for Tumor Enrichment in Low Tumor Content Tissues** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
Havnar, C. A., Zill, O., Eastham, J., Hung, J., Javey, M., Naouri, E., Giltane, J., Balko, J. M., Wallace, A., Lounsbury, N., Oreper, D., Saturnio, S., Yang, et al
2021
 - **Multi-region sequencing analysis of metastatic solid tumors to inform targeting of personalized cancer immunotherapies.**
Lo, A., Wallace, A., Oreper, D., Lounsbury, N., Havnar, C., Espiritu, C., Pechuan-Jorge, X., Bourgon, R., Jones, R., Krogh, K., Yang, G., Zill, O.
AMER ASSOC CANCER RESEARCH.2021
 - **Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group.** *NPJ breast cancer*
Amgad, M., Stovgaard, E. S., Balslev, E., Thagaard, J., Chen, W., Dudgeon, S., Sharma, A., Kerner, J. K., Denkert, C., Yuan, Y., AbdulJabbar, K., Wienert, S., Savas, et al
2020; 6 (1): 16
 - **Powerful Multi-Region Sequencing and Somatic Mutation Clonality Analysis of Intratumoral Heterogeneity on Paired Primary and Metastatic Tumor Samples**
Lo, A., Havnar, C., Jones, R., Espiritu, C., Eastham, J., Lounsbury, N., Oreper, D., Jhunjunwala, S., Krogh, K., Yadav, M., Bourgon, R., Yang, G., Zill, et al

NATURE PUBLISHING GROUP.2020: 1703-1704

- **Millisect Automated Tissue Dissection: A Novel and Efficient Tool for Selected Tissue Sequencing**
Havnar, C., Zill, O., Jones, R., Balko, J., Giltneane, J., Espiritu, C., Eastham, J., Lounsbury, N., Oreper, D., Jhunjunwala, S., Krogh, K., Yadav, M., Bourgon, et al
SPRINGER NATURE.2020: 1698-1699
- **Automated tissue dissection of dermal lymphatic emboli in inflammatory breast cancer enhances accuracy of transcriptional analysis**
Giltneane, J. M., Balko, J. M., Dorothee, N., Nghiem, S., Daemen, A., Naouri, E., Lo, A. A., Harrison, B. T., Schlosnagle, E. J., Havnar, C., Espiritu, C., Stover, D. G., Overmoyer, et al
AMER ASSOC CANCER RESEARCH.2020
- **Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer.** *NPJ breast cancer*
Kos, Z., Roblin, E., Kim, R. S., Michiels, S., Gallas, B. D., Chen, W., van de Vijver, K. K., Goel, S., Adams, S., Demaria, S., Viale, G., Nielsen, T. O., Badve, et al
2020; 6: 17
- **Complete and Prolonged Response to Immune Checkpoint Blockade in POLE-Mutated Colorectal Cancer.** *JCO precision oncology*
Silberman, R., F Steiner, D., Lo, A. A., Gomez, A., Zehnder, J. L., Chu, G., Suarez, C. J.
2019; 3: 1-5
- **Integrated digital pathology and transcriptome analysis identifies molecular mediators of T cell exclusion in ovarian cancer**
Desbois, M., Udyavar, A., Ryner, L., Kozlowski, C., Guan, Y., Durrbaum, M., Lu, S., Fortin, J., Koeppen, H., Ziai, J., Chang, C., Lo, A., Keerthivasan, et al
AMER ASSOC CANCER RESEARCH.2019
- **Complete and Prolonged Response to Immune Checkpoint Blockade in POLE-Mutated Colorectal Cancer** *JCO PRECISION ONCOLOGY*
Silberman, R., Steiner, D. F., Lo, A. A., Gomez, A., Zehnder, J. L., Chu, G., Suarez, C. J.
2019; 3: 1-5
- **Avidity-based binding to HER2 results in selective killing of HER2-overexpressing cells by anti-HER2/CD3** *SCIENCE TRANSLATIONAL MEDICINE*
Slaga, D., Ellerman, D., Lombana, T., Vij, R., Li, J., Hristopoulos, M., Clark, R., Johnston, J., Shelton, A., Mai, E., Gadkar, K., Lo, A. A., Koerber, et al
2018; 10 (463)
- **Relative Target Affinities of T-Cell-Dependent Bispecific Antibodies Determine Biodistribution in a Solid Tumor Mouse Model** *MOLECULAR CANCER THERAPEUTICS*
Mandikian, D., Takahashi, N., Lo, A. A., Li, J., Eastham-Anderson, J., Slaga, D., Ho, J., Hristopoulos, M., Clark, R., Totpal, K., Lin, K., Joseph, S. B., Dennis, et al
2018; 17 (4): 776-785
- **Assessing Tumor-Infiltrating Lymphocytes in Solid Tumors: A Practical Review for Pathologists and Proposal for a Standardized Method from the International Immuno-Oncology Biomarkers Working Group: Part 2: TILs in Melanoma, Gastrointestinal Tract Carcinomas, Non-Small Cell Lung Carcinoma and Mesothelioma, Endometrial and Ovarian Carcinomas, Squamous Cell Carcinoma of the Head and Neck, Genitourinary Carcinomas, and Primary Brain Tumors** *ADVANCES IN ANATOMIC PATHOLOGY*
Hendry, S., Salgado, R., Gevaert, T., Russell, P. A., John, T., Thapa, B., Christie, M., van de Vijver, K., Estrada, M. V., Gonzalez-Ericsson, P. I., Sanders, M., Solomon, B., Solinas, et al
2017; 24 (6): 311-35
- **Assessing Tumor-infiltrating Lymphocytes in Solid Tumors: A Practical Review for Pathologists and Proposal for a Standardized Method From the International Immunooncology Biomarkers Working Group: Part 1: Assessing the Host Immune Response, TILs in Invasive Breast Carcinoma and Ductal Carcinoma In Situ, Metastatic Tumor Deposits and Areas for Further Research** *ADVANCES IN ANATOMIC PATHOLOGY*
Hendry, S., Salgado, R., Gevaert, T., Russell, P. A., John, T., Thapa, B., Christie, M., van de Vijver, K., Estrada, M. V., Gonzalez-Ericsson, P. I., Sanders, M., Solomon, B., Solinas, et al
2017; 24 (5): 235-51
- **HKDC1 Is a Novel Hexokinase Involved in Whole-Body Glucose Use** *ENDOCRINOLOGY*
Ludvik, A. E., Pusec, C. M., Priyadarshini, M., Angueira, A. R., Guo, C., Lo, A., Hershenhouse, K. S., Yang, G., Ding, X., Reddy, T. E., Lowe, W. L., Layden, B. T.
2016; 157 (9): 3452-3461
- **Adverse events after surgery for nonmalignant colon polyps are common and associated with increased length of stay and costs** *GASTROINTESTINAL ENDOSCOPY*
Keswani, R. N., Law, R., Ciolino, J. D., Lo, A. A., Gluskin, A. B., Bentrem, D. J., Komanduri, S., Pacheco, J. A., Grande, D., Thompson, W. K.
2016; 84 (2): 296-+

-
- **Dapagliflozin-Induced Acute-on-Chronic Liver Injury** *ACG CASE REPORTS JOURNAL*
Levine, J. A., Lo, A., Wallia, A., Rogers, M., VanWagner, L. B.
2016; 3 (4): e169
 - **Primary Adenocarcinoma of an Ileostomy in Crohn's Disease.** *ACG case reports journal*
Liu, K., Prasad, M. A., Lo, A., Bellaguarda, E., Strong, S., Hanauer, S. B.
2016; 3 (4)
 - **Endoscopic Resection versus Surgical Resection of Complex Colon Polyps: The Costs and Adverse Events Associated With Competing Management Strategies**
Gluskin, A. B., Law, R., Pacheco, J. A., Thompson, W. K., Komanduri, S., Ciolino, J. D., Lo, A., Grande, D., Keswani, R. N.
MOSBY-ELSEVIER.2016: AB119-AB120
 - **Histopathologic patterns among achalasia subtypes Response** *NEUROGASTROENTEROLOGY AND MOTILITY*
Sodikoff, J. B., Lo, A. A., Shetuni, B. B., Kahrilas, P. J., Yang, G., Pandolfino, J. E.
2016; 28 (4): 609
 - **Composite Epstein-Barr Virus-Associated B-Cell Lymphoproliferative Disorder and Tubular Adenoma in a Rectal Polyp** *INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY*
Lo, A. A., Gao, J., Rao, M., Yang, G.
2016; 24 (1): 73-77
 - **Comparative Study of Isocitrate Dehydrogenase 1 Mutations in Intrahepatic Cholangiocarcinoma by Immunohistochemistry and Pyrosequencing**
Lo, A. A., Costa, H. A., Zehnder, J., Dittman, D., Rao, S., Yang, G., Beaubier, N.
NATURE PUBLISHING GROUP.2016: 443A-444A
 - **Somatic Mutational Landscape of Inflammatory Bowel Disease-Associated Signet Ring Cell Colorectal Carcinoma**
Lo, A. A., Costa, H. A., Zehnder, J., Rao, S., Bustamante, C. D., Yang, G., Beaubier, N.
NATURE PUBLISHING GROUP.2016: 456A
 - **Comparative Study of Isocitrate Dehydrogenase 1 Mutations in Intrahepatic Cholangiocarcinoma by Immunohistochemistry and Pyrosequencing**
Lo, A. A., Costa, H. A., Zehnder, J., Dittman, D., Rao, S., Yang, G., Beaubier, N.
NATURE PUBLISHING GROUP.2016: 443A-444A
 - **Histopathologic patterns among achalasia subtypes** *NEUROGASTROENTEROLOGY AND MOTILITY*
Sodikoff, J. B., Lo, A. A., Shetuni, B. B., Kahrilas, P. J., Yang, G., Pandolfino, J. E.
2016; 28 (1): 139-145
 - **Beyond hepatic hemangiomas: the diverse appearances of gastrointestinal and genitourinary hemangiomas** *ABDOMINAL IMAGING*
Kumar, N., Adam, S. Z., Goodhart, L. A., Hoff, F. L., Lo, A. A., Miller, F. H.
2015; 40 (8): 3313-3329
 - **Isolated Gallbladder Intramucosal Metastatic Melanoma With Features Mimicking Lymphoepithelial Carcinoma** *INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY*
Lo, A. A., Peevey, J., Lo, E. C., Guitart, J., Rao, M., Yang, G.
2015; 23 (5): 409-413
 - **Concurrent Acute Necrotizing Adenovirus Hepatitis and Enterocolitis in an Adult Patient After Double Cord Blood Stem Cell Transplant for Refractory Crohn's Disease** *INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY*
Lo, A. A., Lo, E. C., Rao, M., Yang, G.
2015; 23 (5): 404-408
 - **Outcomes of Surgical Resection for Benign Colorectal Neoplasms: an Analysis of 359 Resections At a Single Academic Medical Center**
Keswani, R. N., Law, R., Lo, A., Grande, D., Thompson, W. K.
MOSBY-ELSEVIER.2015: AB283-AB284
 - **Unique morphologic and clinical features of liver predominant/primary small cell carcinoma-autopsy and biopsy case series** *ANNALS OF DIAGNOSTIC PATHOLOGY*
Lo, A. A., Lo, E. C., Li, H., Zhang, W., Liao, J., Rao, M., Miller, F., Yang, G.
2014; 18 (3): 151-156
-

- **Fine-needle aspiration of the liver** *Differential Diagnosis in Cytopathology*
Lo, A. A., Ubago, J. M., Nayar, R., Lin, X.
2014
- **Lymphoid Proliferations Associated With Human Immunodeficiency Virus Infection** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
Chadburn, A., Abdul-Nabi, A. M., Teruya, B., Lo, A. A.
2013; 137 (3): 360-370
- **Intrauterine Fetal Death of a Monochorionic Twin with Peripheral Pulmonary Infarcts: Potential Thromboembolic Events Following Death of Co-Twin** *PEDIATRIC AND DEVELOPMENTAL PATHOLOGY*
Lo, A. A., Faye-Petersen, O. M., Ernst, L. M.
2012; 15 (2): 142-145
- **Primary Effusion Lymphoma/Extracavitary Effusion Lymphoma: A Virus-Associated Lymphoma** *AJSP-REVIEWS AND REPORTS*
Lo, A., Chadburn, A.
2012; 17 (2): 69-74
- **Leptin Promotes Fibroproliferative Acute Respiratory Distress Syndrome by Inhibiting Peroxisome Proliferator-activated Receptor-gamma** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Jain, M., Budinger, G., Lo, A., Urich, D., Rivera, S. E., Ghosh, A. K., Gonzalez, A., Chiarella, S. E., Marks, K., Donnelly, H. K., Soberanes, S., Varga, J., Radigan, et al
2011; 183 (11): 1490-1498
- **Enteropathogenic E. coli non-LEE encoded effectors NleH1 and NleH2 attenuate NF-kappa B activation** *MOLECULAR MICROBIOLOGY*
Royan, S. V., Jones, R. M., Koutsouris, A., Roxas, J. L., Falzari, K., Weflen, A. W., Kim, A., Bellmeyer, A., Turner, J. R., Neish, A. S., Rhee, K., Viswanathan, V. K., Hecht, et al
2010; 78 (5): 1232-1245
- **Enterohemorrhagic E. coli alters murine intestinal epithelial tight junction protein expression and barrier function in a Shiga toxin independent manner** *LABORATORY INVESTIGATION*
Roxas, J. L., Koutsouris, A., Bellmeyer, A., Tesfay, S., Royan, S., Falzari, K., Harris, A., Cheng, H., Rhee, K., Hecht, G.
2010; 90 (8): 1152-1168
- **Enterohemorrhagic Escherichia coli suppresses inflammatory response to cytokines and its own toxin** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*
Bellmeyer, A., Cotton, C., Kanteti, R., Koutsouris, A., Viswanathan, V. K., Hecht, G.
2009; 297 (3): G576-G581
- **Anti-TNF antibodies associated with different risk of latent tuberculosis activation - Reply** *AMERICAN JOURNAL OF MEDICINE*
Mutlu, G. M., Bellmeyer, A., Mutlu, E. A., Rubinstein, I.
2007; 120 (12): E23
- **Ambient particulate matter accelerates coagulation via an IL-6-dependent pathway** *JOURNAL OF CLINICAL INVESTIGATION*
Mutlu, G. M., Green, D., Bellmeyer, A., Baker, C. M., Burgess, Z., Rajamannan, N., Christman, J. W., Foiles, N., Kamp, D. W., Ghio, A. J., Chandel, N. S., Dean, D. A., Sznajder, et al
2007; 117 (10): 2952-2961
- **Electroporation-mediated gene transfer of the Na⁺, K⁺-ATPase rescues endotoxin-induced lung injury** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Mutlu, G. M., Machado-Aranda, D., Norton, J. E., Bellmeyer, A., Urich, D., Zhou, R., Dean, D. A.
2007; 176 (6): 582-590
- **The intrinsic apoptotic pathway is required for lipopolysaccharide-induced lung endothelial cell death** *JOURNAL OF IMMUNOLOGY*
Wang, H. L., Akinci, I., Baker, C. M., Urich, D., Bellmeyer, A., Jain, M., Chandel, N. S., Mutlu, G. M., Budinger, G.
2007; 179 (3): 1834-1841
- **Leptin resistance protects mice from hyperoxia-induced acute lung injury** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Bellmeyer, A., Martino, J. M., Chandel, N. S., Budinger, G., Dean, D. A., Mutlu, G. M.
2007; 175 (6): 587-594
- **Adenosine regulation of alveolar fluid clearance** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Factor, P., Mutlu, G. M., Chen, L., Mohameed, J., Akhmedov, A. T., Meng, F., Jilling, T., Lewis, E., Johnson, M. D., Xu, A., Kass, D., Martino, J. M., Bellmeyer, et al

2007; 104 (10): 4083-4088

● **Air pollution impairs lung's ability to clear edema fluid** *AMERICAN JOURNAL OF CARDIOLOGY*

Mutlu, G. M., Bellmeyer, A., Budinger, G.

2006; 98 (3): 423-424

● **Pulmonary adverse events of anti-tumor necrosis factor-alpha antibody therapy** *AMERICAN JOURNAL OF MEDICINE*

Mutlu, G. M., Mutlu, E. A., Bellmeyer, A., Rubinstein, I.

2006; 119 (8): 639-646

● **Airborne particulate matter inhibits alveolar fluid reabsorption in mice via oxidant generation** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*

Mutlu, G. M., Snyder, C., Bellmeyer, A., Wang, H., Hawkins, K., Soberanes, S., Welch, L. C., Ghio, A. J., Chandel, N. S., Kamp, D., Sznajder, J. I., Budinger, G.

2006; 34 (6): 670-676

● **Proapoptotic bid is required for pulmonary fibrosis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Budinger, G. R., Mutlu, G. M., Eisenbart, J., Fuller, A. C., Bellmeyer, A. A., Baker, C. M., Wilson, M., Ridge, K., Barrett, T. A., Lee, V. Y., Chandel, N. S.

2006; 103 (12): 4604-4609

● **The protooncogene c-Myc is an essential regulator of neural crest formation in Xenopus** *DEVELOPMENTAL CELL*

Bellmeyer, A., Krase, J., Lindgren, J., LaBonne, C.

2003; 4 (6): 827-839

● **Trafficking of cell-surface beta-amyloid precursor protein: Evidence that a sorting intermediate participates in synaptic vesicle recycling** *JOURNAL OF NEUROSCIENCE*

MarquezSterling, N. R., Lo, A. C., Sisodia, S. S., Koo, E. H.

1997; 17 (1): 140-151