

Shiro Urayama, M.D.

Philosophy of Care Focused on patient-centered clinical care and researching application of technology for developing best care for gastrointestinal diseases in the patient.

Clinical Interests Dr. Shiro Urayama specializes in advanced endoscopy including EUS (Endoscopic Ultrasound), ERCP (Endoscopic Retrograde Cholangiopancreatography) and various intra- and extra-luminal interventions including endoscopic mucosal resections/submucosal dissections, ablative procedures, and placement of luminal prosthesis for luminal and periluminal diseases. He has published studies on the endoscopic approaches in GI cancers and investigations on novel detection modalities of precancerous lesions. Specifically his research involves the application of endoscopic ultrasound, tumor markers for early diagnosis of pancreatic cancers, and the applications of optical technologies in early detections of dysplasia and cancer in esophagus.

Research/Academic Interests Diagnostics and endotherapeutics for gastrointestinal malignancies specifically in upper GI tract and pancreaticobiliary organ. Translational research in pancreatic and esophageal cancer for development of early detection biomarkers.

Title Professor

Specialty [Cancer](#), Gastroenterology and Hepatology, Internal Medicine

Department [Internal Medicine](#)
[UC Davis Medical Group](#)

Division Gastroenterology and Hepatology

Clinic UC Davis Medical Group, Sacramento - Midtown

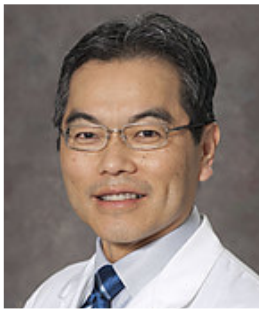
Center/Program Affiliation [UC Davis Comprehensive Cancer Center](#)
[UC Davis Medical Group](#)

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Languages Japanese

Education M.D., Medical College of Wisconsin, Milwaukee WI 1992
B.S. with Honors, University of Washington, Seattle WA 1988



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Internships Internal Medicine, Virginia Mason Medical Center, Seattle WA 1992-1993

Residency Internal Medicine, Virginia Mason Medical Center, Seattle WA 1993-1995

Fellowships Endoscopic Ultrasonography (EUS), Columbia University, Columbia Presbyterian Medical Center, New York City NY 1999
Gastroenterology, University of Chicago, Chicago IL 1995-1999

Board Certifications American Board of Internal Medicine, 1995
American Board of Internal Medicine, Gastroenterology and Hepatology, 1997

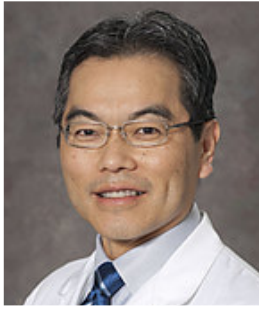
Professional Memberships American Association for Cancer Research (AACR)
American College of Physicians
American Gastroenterological Association
American Society of Gastrointestinal Endoscopy
Association for Advancement of American Science

Honors and Awards UC Davis New Innovation/Collaboratory Research Award, 2010
UC Davis Health System Research Award, 2004
UC Cancer Research Coordinating Committee Research Award, 2003
Faculty Research Award - UC Davis, 2000
New Faculty Grant Program Award - UC Davis, 1999
ASGE/Bard Resident/Fellow Manuscript Award: Mycobacteria and glutaraldehyde: is high-level disinfection of endoscopes possible?, 1996

Select Recent Publications Afify A, Huang EC, Jeong M, Urayama S. Immunoisolation of Pancreatic Epithelial Cells from Endoscopic Ultrasound-guided Fine Needle Aspirates with Magnetic Beads for Downstream Molecular Application. Diagnostic Cytopathology. 2015 Oct.

Ames E, Canter RJ, Grossenbacher SK, Mac S, Chen M, Smith RC, Hagino T, Perez-Cunningham J, Sckisel GD, Urayama S, Monjazebe AM, Fragoso RC, Sayers TJ, Murphy WJ. NK Cells Preferentially Target Tumor Cells with a Cancer Stem Cell Phenotype. J Immunol. 2015 Oct 15;195(8):4010-9.

Chen QX, Wang WP, Zeng S, Urayama S, Yu AM. A general approach to high-yield biosynthesis of chimeric RNAs bearing various types of functional small RNAs for broad applications. Nucleic Acids Res. 2015 Apr 20;43(7):3857-69. Epub 2015 Mar 23.



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Urayama S, Azarm A, Khan R. Endoscopic ultrasound and pancreatic cancer: advancing the application of technology for early detection. *J Interv Gastroenterol*. 2015;5(2):68-74.

Urayama S. Pancreatic cancer early detection: expanding higher-risk group with clinical and metabolomics parameters. *World J Gastroenterol*. 2015 Feb 14;21(6):1707-17.

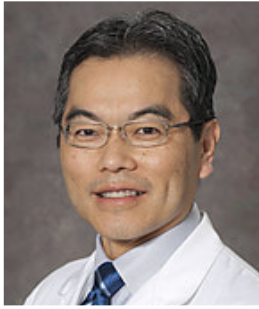
Parikh DA, Durbin-Johnson B, Urayama S. Utility of serum CA19-9 levels in the diagnosis of pancreatic ductal adenocarcinoma in an endoscopic ultrasound referral population. *J Gastrointest Cancer*. 2014 Mar;45(1):74-9.

Lin B, Urayama S, Saroufeem RM, Matthews DL, Demos SG. Establishment of rules for interpreting ultraviolet autofluorescence microscopy images for noninvasive detection of Barrett's esophagus and dysplasia. *J Biomed Opt*. 2012 Jan;17(1):016013.

Lin B, Urayama S, Saroufeem RM, Matthews DL, Demos SG. Endomicroscopy imaging of epithelial structures using tissue autofluorescence. *J Biomed Opt*. 2011 Apr;16(4):046014.

Lin B, Urayama S, Saroufeem RM, Matthews DL, Demos SG. Characterizing the origin of autofluorescence in human esophageal epithelium under ultraviolet excitation. *Opt Express*. 2010 Sep 27;18(20):21074-82.

Urayama S, Zou W, Brooks K, Tolstikov V. Comprehensive mass spectrometry based metabolic profiling of blood plasma reveals potent discriminatory classifiers of pancreatic cancer. *Rapid Commun Mass Spectrom*. 2010 Mar 15;24(5):613-20.



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