

Nephrology Division Newsletter

September – October 2021

Special ASN Kidney Week Newsletter



at



Congrats for all our fellows and faculty for presenting their research at the ASN November 2 – 7, 2021!

Speakers

Flavio Vincenti, MD

What's in the Pipeline? Future Developments in Transplantation

October 25, 2021 | 09:00 AM - 09:00 AM | On-Demand, Virtual Only

Kathleen Liu, MD, PhD

Year in Review 2021: Critical Care

October 25, 2021 | 09:00 AM - 09:00 AM | On-Demand, Virtual Only

Kathleen Liu, MD, PhD

Hyponatremia

October 25, 2021 | 09:00 AM - 09:00 AM | On-Demand, Virtual Only

Meyeon Park, MD

Clinical Cases: ADPKD Therapeutic Challenges

October 28, 2021 | 11:40 AM - 12:10 PM | Live-Stream, Virtual Only

Elaine Ku, MD

New Guidelines for Screening for Hypertension in Children

November 04, 2021 | 03:00 PM - 03:30 PM | Live-Stream, Virtual Only

Farzana Perwad, MD

Molecular Insight into Disorders of Phosphate Metabolism

November 05, 2021 | 11:30 AM - 12:00 PM | Live-Stream, Virtual Only

Cynthia Delgado, MD

Overview of Task Force Activities and Evidence Examined

November 05, 2021 | 02:00 PM - 02:30 PM | Live-Stream, Virtual Only

Neil Powe, MD, MBA, MPH

Estimating Equation Options and Task Force Recommendations

November 05, 2021 | 02:30 PM - 03:00 PM | Live-Stream, Virtual Only

Kathleen Liu, MD, PhD

Deresuscitation in Critically Ill Patients with AKI: Benefits and Dangers

November 06, 2021 | 10:00 AM - 12:00 PM | On-Demand, Virtual Only

Moderators

Deborah B. Adey, MD

Kidney Transplantation: Breakthroughs from Basic to Translational to Clinical Research

November 04, 2021 | 4:30PM – 6:00PM | Simulive, Virtual Only

Nikolaos Skartsis, MD, PhD

Tolerance and Kidney Transplantation: Where do we stand?

November 07, 2021 | 10:00AM – 12:00PM | Simulive, Virtual Only

Featured Publication

Brar S, Liu KD, Go AS, Hsu RK, Chinchilli VM, Coca SG, Garg AX, Himmelfarb J, Ikizler TA, Kaufman J, Kimmel PL, Parikh CR, Siew ED, Ware LB, Zeng H, Hsu CY. Prospective cohort study of renin-angiotensin system blocker usage after hospitalized acute kidney injury. *Clin J Am Soc Nephrol* 2020; 16: 26-36

Best of ASN Journals: JASN, CJASN, and Kidney360

November 05, 2021 | 2:00 PM - 4:00 PM PDT | Live-Stream

Posters

November 04, 2021 | 10:00AM – 12:00PM | On-Demand, Virtual Only

[INFO08] Informing the Nation About Kidney Disease: The Centers for Disease Control and Prevention's (CDC) Chronic Kidney Disease (CKD) Surveillance System

Powe, Neil R.; Burrows, Nilka Rios; Saran, Rajiv

[INFO34] PODO: A Phase 2 Multicenter, Open-Label, Adaptive, Sequential Cohort Trial of PF-06730512 in Adult Subjects with Focal Segmental Glomerulosclerosis (FSGS)

Berasi, Stephen; Fornoni, Alessia; Lafayette, Richard A.; Mandayam, Sreedhar A.; McMahon, Awad, Ahmed M.; Alan W.; Tumlin, Rizk, Dana; Peev, Vasil; James A.; Kamil, Elaine S.; Vincenti, Flavio; Mottl, Amy K.; El-Shahawy, Mohamed A.; Ayoub, Isabelle; Levy, Daniel I.; Gorman, Donal; Copley, J. Brian

[PO0158] CRRT with the oXiris Filter Attenuates IL-6 in a Patient with Severe COVID-19

Tang, Jennifer Chiwing; Cao, Thanh.

[PO0210] AKI! Now: Defining Excellence in the Prevention of and Care for Patients with AKI

Cerda, Jorge; Parikh, Samir M.; Koyner, Jay L.; Vijayan, Anitha; Goldstein, Stuart; Liu, Kathleen D.; Ostermann, Marlies; Agarwal, Anupam; Okusa, Mark D.

[PO0244] Urinary Epidermal Growth Factor and CKD Progression: The ASSESS-AKI Study

Menez, Steven; Thiessen Philbrook, Heather; Hu David G.; Obeid, Wasim; Bhatrju, Pavan K.; Ikizler, Talat Alp; Siew, Edward D.; Chinchilli, Vernon M.; Garg, Amit X.; Go, Alan S.; Liu, Kathleen D.; Kaufman, James S.; Kimmel, Paul L.; Himmelfarb, Jonathan; Coca, Steven G.; Parikh, Chirag R.

[PO0246] Preoperative Plasma TNFR1, TNFR2, and KIM-1 and Long-Term Adverse Events After Cardiac Surgery: The TRIBE-AKI Study

Vasquez-Rios, George; Moledina, Dennis G.; McArthur, Eric; Mansour, Sherry; Menez, Steven; Thiessen Philbrook; Shlipak, Michael; Koyner, Jay L.; Garg, Amit X.; Parikh, Chirag R.; Coca, Steven G.

[PO0248] Considerations in Controlling for Urine Concentrations in Performance of Biomarkers of AKI

Wen, Yumeng; Thiessen Philbrook, Heather; Molendina, Dennis G.; Kaufman, James S.; Reeves, William Brian; Ghahramani, Nasrollah; Ikizler, Talat Alp; Go, Alan; Liu, Kathleen D.; Himmelfarb, Jonathan; Siew, Edward D.; Kimmel, Paul L.; Hsu, Chi-yuan; Parkh, Chirag R.

[PO0417] Hospitalized AKI Is Associated with Long-Term Increases in TNFR1 and TNFR2: Findings from the CRIC Study

McCoy, Ian; Hsu, Jesse Yenchih; Bonventre, Joseph V.; Parikh, Chirag R.; Hsu, Chi-yuan.

[PO0496] Niacin Supplementation Increases In Vitro Apicobasal Volume Transport and Oxygen Consumption by Proximal Tubule Cells

Hunter, Kuniko; Evans, Rachel C.; Love, Harold D.; Parikh, Samir M.; Humes, H. David; Roy, Shuvo; Fissell, William Henry

[PO0499] Tunable Stiffness Amino Functionalized Polyacrylamide-Based Hydrogels for Renal Cell Tissue Culture

Love, Harold D.; Roy, Shuvo; Fissell, William Henry.

[PO0500] Canonical TGF- β Signaling Mediates Renal Tubule Epithelial Cell Differentiation In Vitro

Hunter, Kuniko; Love, Harold D.; Humes, H. David; Roy, Shuvo; Fissell, William Henry

[PO0501] TGF- β Mediates In Vitro Renal Tubule Cell Fatty Acid Oxidation

Hunter, Kuniko; Evans, Rachel C.; Love, Harold D.; Humes, H. David; Roy, Shuvo; Fissell, William Henry

[PO0513] Demonstrating Preclinical Proof of Concept of an Implantable Bioartificial Kidney (iBAK)

Chen, Caressa; Santandreu, Ana; Blaha, Charles; Wright, Nathan; Moyer, Jarrett; Kim, Eun jung; Baltazar, Francisco Javier; Chui, Benjamin W.; Haniff, Tariq M.; Brakeman, Paul R.; Vartanian, Shant M.; Humes, H. David; Fissell, William Henry; Roy, Shuvo

[PO0559] Longitudinal Changes in FGF-23 Children with CKD

Perwad, Farzana; Matheson, Matthew; Salusky, Isidro B.; Jüppner, Harald; Wolf, Myles; Warady, Bradley A.; Furth, Susan L.; Ng, Derek; Portale, Anthony A.,

[PO0714] Hyperpolarized MRI Detection of Dapagliflozin Effect on Gluconeogenesis in Live Animals: Proof of Principle
Shabbir, Waheed; Takagi, Enzo; Ohliger, Michael; Pearce, David.

[PO0718] mTORC2 is Essential for Sodium-Glucose Cotransporter 2
Shabbir, Waheed; Demko, John E.; Takagi, Enzo; Saha, Bidisha; Leite-Dellova, Deise C A; Sambandam, Bharathi; Pearce, David.

[PO0741] Urine Biomarkers and ESKD Risk in Persons with Diabetes and CKD
Amatruda, Jonathan G.; Katz, Ronit; Sarnak, Mark J.; Gutierrez, Orland M.; Greenberg, Jason Henry; Cushman, Mary; Parikh, Chirag R.; Schelling, Jeffrey R.; Bonventre, Joseph V.; Ramachandran, Vasana S.; Kimmel, Paul L.; Shlipak, Michael; Ix, Joachim H.

[PO0922] Nanostructured Capillary Membranes for Size-Selective Hemofiltration
Cheng, Peifu; Fornasiero, Francesco; Ferrell, Nicholas J; Roy, Shuvo; Fissell, William Henry; Kidambi, Piran

[PO1093] Role of mTORC2/SGK1 Signaling in Rapid Response to Acute K Load to Maintain K+ Homeostasis
Saha, Bidisha; Shabbir, Waheed; Takagi, Enzo; Demko, John E.; Sorensen, Mads Vaarby; Leite-Dellova, Deise C A; Pearce, David.

[PO1094] Structural Determinants of mTORC2/SGK1 Substrate Specificity and SGK1 Phosphorylation Revealed by Cryogenic Electron Microscopy
Chen, Junliang; Yu, Zanlin; Wang, Feng; Liu, Xi; Takagi, Enzo; Jourbert, Lydia-Marie; Jin, Mingliang; Nowotny, Carlos; Agard, David; Cheng, Yifan; Pearce, David.

[PO1110] Validity of a Simple Equation to Estimate Urine Output in Outpatients with Suspected Nephrolithiasis
Webster, Luke; Bullen, Alexander; Asplin, John R.; Shlipak, Michael; Bechis, Seth; Monga, Manoj; Ix, Joachim H.

[PO1125] Transient Hyperkalemia Following Treatment of Chronic Hypokalemia: A Case Report and Review of Distal Tubule Physiology
Breeggemann, Matthew Clarence; Gluck, Stephen L.

[PO1737] Changes over Time in DASH Diet Accordance by Racial/Ethnic Groups Among US Adults
Banerjee, Tanushree; Mcculloch, Charles E.; Crews, Deidra C.; Burrows, Nilka Rios; Koyama, Alain; Morgenstern, Hal; Saran, Rajiv; Powe, Neil R.

[PO1766] Hyponatremia, Inflammation, and Hospital Mortality in Hospitalized COVID-19 Patients
Ayus, Juan Carlos; Moritz, Michael L.; Lee, Kyung Min; Caputo, Daniel; Borda, Maria Elena; Go, Alan S.; Eghi, Carlos,

[PO1766] Framingham Risk Score and ACC/AHA Pooled Cohort Equation for Prediction of Atherosclerotic Cardiovascular Events in CKD
Lidgard, Benjamin; Zelnick, Leila R.; Go, Alan S.; O'brien, Kevin D.; Bansal, Nisha,

[PO1257] Two Years In: The Development and Basic Characteristics of a National Patient-Powered Registry in ADPKD
Hoover, Elise; Benson, Beverly A.; Dahl, Neera K.; Gitomer, Berenice Y.; Manelli, Amy; Mrug, Michal; Park, Meyeon; Rusconi, Chris; Seliger, Stephen L.; Perrone, Ronald D.; Watnick, Terry J.

[PO1288] Attitudes and Perceptions of APOL1 Genetic Testing in Black Patients with Hypertension: Testing in Black Patients with Hypertension: A Pilot Study
Lentine, Krista L.; Muiro, Anthony N.; Lindsay, Kathryn K.; Mosman, Amy; Caliskan, Yasar; Freedman, Barry I.; Carriker, Amber; Hsu, Chi-yuan; Miyata, Kana N.; Vo, Thanh-Mai Nguyen; Edwards, John C.; Philipneri, Marie D.

[PO1483] Post-Transplant Thrombotic Microangiopathy Due to a Pathogenic Mutation in Complement Factor I
Shaikh, Sana J.; Saleem, Maryam, Java, Anuja.

[PO1792] Markers of Kidney Tubular Secretion and Risk of Cardiovascular Disease and Mortality in Persons with CKD in SPRINT
Ascher, Simon; Katz, Ronit; Scherzer, Rebecca; Bullen, Alexander; Hallan, Stein I.; Jotwani, Vasanth; Malhotra, Rakesh; Estrella, Michelle M.; Seegmiller, Jesse C.; Ix, Joachim H.; Shlipak, Michael; Garmella, Pranav S.

[PO1793] Markers of Kidney Tubular Secretion and Risk of Adverse Events in Persons with CKD in SPRINT
Ascher, Simon; Garmella, Pranav S.; Scherzer, Rebecca; Katz, Ronit; Hallan, Stein I.; Jotwani, Vasanth; Malhotra, Rakesh; Estrella, Michelle M.; Seegmiller, Jesse C.; Ix, Joachim H.; Shlipak, Michael; Bullen, Alexander.

[PO1808] Revascularization in Atherosclerotic Bilateral Renal Artery Stenosis
Shaikh, Sana J.; Al-Khalil, Bilal; Chen, Ling; Vijayan, Anitha.

[PO1995] Genetic Testing in Children with Nephrolithiasis and Nephrocalcinosis
Gefen, Ashley M.; Sethna, Christine B.; Cil, Onur; Perwad, Farzana; Schoettler, Meg; Amlie-Wolf, Louise; Ellison, Jonathan S.; Feig, Daniel; Zaritsky, Joshua

[PO2064] Association of Physical Performance with Death of Delisting in Patients Waitlisted for Kidney Transplantation
Sheshadri, Anoop; Ku, Elaine; Adey, Deborah B., Lai, Jennifer C; Johansen, Kirsten L.

[PO2116] Peripheral Arterial Disease and Risk of Infection-Related Complications After Kidney Transplantation

Dinh, Alex; Copeland, Timothy P; Mcculloch, Charles E; Adey, Deborah B; Ku, Elaine.

[PO2145] Gender Disparities in Access to Simultaneous Liver-Kidney Transplantation in the Pre- vs. Post-Allocation Policy Eras

Peschard, Giselle; Wang, Wei; Al-Hosni, Yazen; Lentine, Kirsta L.; Chang, Su-Hsin; Alhamad, Tarek.

[PO2146] Gender-Based Disparities in Access and Survival Outcomes of Simultaneous Liver-Kidney Transplant Among Liver Transplant Candidates with Renal Dysfunction in the United States

Peschard, Giselle; Wang, Wei; Al-Hosni, Yazen; Lentine, Kirsta L.; Chang, Su-Hsin; Alhamad, Tarek.

[PO2253] Associations of CKD Risk Factors and Longitudinal Changes in Urine Biomarkers of Kidney Tubules Among Women Living with HIV

Muiru, Anthony N.; Scherzer, Ronit; Ascher, Simon; Jotwani, Vasanth; Ng, Derek; Gustafson, Deborah; Spence, Amanda Blair; Parikh, Chirag R.; Sharma, Anjali; Ix, Joachim H.; Estrella, Michelle M.; Shlipak, Michael.

[PO2263] Inflammatory Biomarkers and Proteinuria Progression in CKD Patients: The CRIC Study

Chen, Jing; Hamm, L. Lee; Batuman, Vecihi; Geng, Siyi; Lash, James P.; Hsu, Chi-yuan; Rao, Panduranga S.; Anderson, Amanda Hyre; Waikar, Sushrut S.; Srivastava, Anand; Horwitz, Edward J.; Ricon-choles, Hernan; Weir, Matthew R.; Appel, Lawrence J.; He, Jiang.

[PO2298] Although Provider Awareness Is High, More Than Half of US Veterans with CKD Being Treated for Hypertension (HTN) Are Not Meeting Blood Pressure (BP) Targets

Bragg-Gresham, Jennifer L.; Steffick, Diane; Zhang, Xiaosong; Crews, Deidra C.; Powe, Neil R.; Koyama, Alain; Burrows, Nilka Rios; Zivin, Kara; Saran, Rajiv.

[PO2309] Microscopic Hematuria and Leukocyturia Are Highly Prevalent in East Africa and Associated with CKD

Muiru, Anthony N.; Kabami, Jane; Kanya, Moses; Havlir, Diane; Charlebois, Edwin; Estrella, Michelle M.; Hsu, Chi-yuan.

[PO2312] Submaximal Dose of Angiotensin Converting Enzyme Inhibitor and Angiotensin II Receptor Blockers Among Persons with Proteinuria

Chu, Chi D; Powe, Neil R; Estrella Michelle M; Shlipak, Michael; McCoy, Ian; Tuot Delphine S.

[PO2319] Comparing Estimated Glomerular Filtration Rates (eGFR) for US Black Veterans with and Without the Black-Race Coefficient and Normalization to a Fixed Rate Surface Area (BSA)

Bragg-Gresham, Jennifer L.; Morgenstern, Hal; Shahinian, Vahakn; Chu, Chi D.; Powe, Neil R; Burrows, Nilka Rios; Zivin, Kara; Saran Rajiv.

[PO2321] Facility-Level Variations and Racial Disparities in Albuminuria and Serum Creatinine Dual Testing in the US Veterans Health Administration (VHA) Health Care System

Han, Yu; Bhave, Nicole; Steffick, Diane; Zivin, Kara; Koyama, Alain; Pavkov, Meda E.; Powe, Neil R.; Tuot, Delphine; Saran, Rajiv.

[PO2323] Non-GFR Determinants of Serum Creatinine and Race in GFR Estimating Equations: Findings from the CRIC Study

Hsu, Chi-yuan; Yang, Wei; Parkh, Rishi V.; Anderson Amanda Hyre; Chen, Teresa K.; Cohen Debbie L.; He, Jiang; Mohanty, Madhumita J.; Lash, James P.; Mills, Katherine T.; Muiru, Anthony N.; Parsa, Afshin; Saunders, Milda Renne; Shafi, Tariq; Townsend, Raymond R.; Waikar, Sushrut S.; Wang, Jianqiao; Wolf, Myles; Tan, Thida C.; Feldman, Harold I.; Go, Alan S.

[PO2332] Muscle Is a Non-GFR Determinant of Serum Filtration Marker Levels and Is Associated with Differential Accuracy of GFR Estimating Equations in Older Adults

Flanagin, Erin; Tighiouart, Hocine; Delgado, Cynthia; Gudnason, Vilmondur; Levey, Andrew S.; Inker, Lesley Ann.

[PO2361] Plasma Biomarkers and Incident CKD in Individuals Without Diabetes

Sarnak, Mark J.; Katz, Ronit; Coca, Steven G.; Greenberg, Jason Henry; Kimmel, Paul ; Sabbiseti, Venkata; Parikh, Chirag R.; Rebholz, Casey; Waikar, Sushrut S.; Schelling, Jeffrey R.; Zheng, Zihe.; Cushman, Mary; Ramachandran, Vasanth S.; Bonventre, Joseph V.; Shlipak, Michael; Ix, Joachim H.; Gutierrez, Orlando M.

[PO2362] Tubular Secretion Markets and Declining Kidney Function in the SPRINT Trial

Garimella, Pranav S.; Ascher, Simon; Katz, Ronit; Bullen, Alexander; Estrella, Michelle M.; Malhotra, Rakesh; Jotwani, Vasanth; Hallan, Stein I.; Scherzer, Rebecca; Shlipak, Michael; Ix, Joachim H.

[PO2383] Can Structured, Moderate Exercise Slow Kidney Function Decline in Sedentary Elders?

Shlipak, Michael; Hsu, Fang-Chi; Jotwani, Vasanth; Tranah, Gregory J.; Fielding, Roger A.; Liu, Christine; Ix, Joachim H.; Coca, Steven G.

[PO2390] Serum Creatinine Concentration and Estimates of Muscle Mass Among Race/Ethnicity Groups with End-Stage Kidney Failure

Delgado, Cynthia; Powe, Neil R.; Chertow, Glenn Matthew; Grimes, Barbara A.; Johansen, Kirsten L.

Oral Abstractions

[TH-OR24] Role of WNK1 and WNK4 in Sensing Extracellular Potassium in Principal Cells to Modulate mTORC2-Dependent Activation of Epithelial Sodium Channel

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Saha, Bidisha; Shabbir, Waheed; Takagi, Enzo; Sorensen, Leite-Dellova, Pearce, David.

[TH-OR03] The Incidence and Risk Factors of AKI Among people with HIV on Antiretroviral Treatment

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Muiru, Anthony N; Madden, Erin; Scherzer, Rebecca; Parikh, Chirag R., Hsu, Chi-yuan; Shlipak, Michael; Estrella, Michelle M.

[TH-OR42] Prediction of Incident Heart Failure in CKD

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Zelnick, Leila R.; Shlipak, Michael; Soliman, Elsayed Z.; Anderson, Amanda Hyre; Christenson, Robert; Kansal, Mayank; Deo, Rajat.; He, Jiang; Jaar, Bernard G.; Weir, Matthew R.; Rao, Panduranga S.; Cohen, Debbie L.; Cohen, Jordana B.; Feldman, Harold I.; Go, Alan S.; Bansal, Nisha,

[TH-OR45] Baseline and Time-Updated Systolic Blood Pressure and Incident Cognitive Impairment in the Chronic Renal Insufficiency Cohort

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Babroudi, Seda; Tighiouart, Hocine; Sarah J.; Cohen, Jordana B.; He, Jiang, Tulane; Rao, Panduranga S.; Fischer, Michael J.; Rahman, Mahboob; Go, Alan S.; Hsu, Chi-yuan; Sozio, Stephen M.; Weir, Matthew R.; Sarnak, Mark J.; Yaffe, Kristine; Kurella Tamura; Drew, David A.,

[TH-OR64] Race, Genetic Ancestry, and GFR Estimations: Findings from the CRIC Study

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Hsu, Chi-yuan; Yang, Wei; Parikh, Rishi V; Anderson, Amanda Hyre; Chen, Teresa K; Cohen, Debbie L; He, Jiang; Mohanty, Madhumita J.; Lash, James P.; Mills, Katherine T.; Muiru, Anthony N.; Parsa, Afshin; Saunders, Milda Renne; Shafi, Tariq; Townsend, Raymond R.; Waikar, Sushrut S.; Wang, Jianqiao; Wolf, Myles; Tan, Thida C.; Feldman, Harold I.; Go, Alan S.

[TH-OR66] How Removing the Race Coefficient from eGFR Equations Impacts Racial Differences in CKD Progression Among People with HIV

November 04, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Muiru, Anthony N.; Madden, Erin; Shlipak, Michael; Estrella, Michelle M.

[FR-OR57] Adiposity and Obesity-Related Metabolomics: The CRIC Study

November 05, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Zheng, Zihe; Feldman, Harold I.; Anderson, Amanda Hyre; Rhee, Eugene P.; Rebholz, Casey; Yang, Wei; Waikar, Sushrut S.; Hsu, Jesse Yenchih; Mehta, Rupal; Rosas, Sylvia E.; Ricardo, Ana C.; Hsu, Chi-yuan; Chen, Jing; Ramachandran, Vasana S.; Nelson, Robert G.

[SA-OR11] Identification of Molecularly Distinct Sub-Phenotypes in AKI and Association with Long-Term Clinical Outcomes

November 06, 2021 | 04:30 PM - 06:00 PM

Location: Simulive, Virtual Only

Bhatraju, Pavan K.; Prince, David K.; Mansour, Sherry; Ikizler, Talat Alp; Siew, Edward D.; Garg, Amit X.; Go, Alan S.; Kaufman, James S.; Kimmel, Paul L.; Coca, Steven G.; Parikh, Chirag R.; Wurfel, Mark M.; Himmelfarb, Jonathan

[SA-OR12] Association of Mild-to-Moderate AKI with CKD Progression Among Individuals with CKD: The CRIC Study

November 06, 2021 | Location: Simulive, Virtual Only

Abstract Time: 4:30PM - 06:00PM

Muiru, Anthony N.; Hsu, Jesse Yenchih; Liu, Kathleen D.; Drawz, Paul E.; Ricardo, Ana C.; Lash, James P.; Taliercio, Jonathan J., Horwitz, Edward J.; Sondheim, James H.; Chen, Jing; He, Jiang; Appel, Lawrence J.; Go, Alan S.; Hsu, Chi-yuan