

## Poster Session 1

<b>P1-01-07</b>	Distribution pattern of Ki67 immunoreactivity in ductal intraepithelial neoplasia (DIN): Correlation with lesion grade and potential utility <i>Ozerdem U, Tavassoli FA. Yale University School of Medicine, New Haven, CT.</i>
<b>P1-01-08</b>	An impending avalanche-breast cancer among women $\geq 90$ years of age <i>Ozerdem U, Tavassoli FA. Yale University School of Medicine, New Haven, CT.</i>
<b>P1-09-01</b>	African American women have lower pathologic complete response rates to neoadjuvant chemotherapy compared to white women for triple negative and HER 2 positive breast cancer <i>Killelea BK, Chagpar AB, Horowitz NR, Puztai L, Wang S, Mougalian S, Lannin DR. Yale University School of Medicine, New Haven, CT; Yale University School of Public Health, New Haven, CT.</i>

## Poster Session 3

<b>P3-07-06</b>	Objective measurement of HER2 (ERBB2) intracellular and extracellular domain spatial co-localization stratifies benefit from adjuvant trastuzumab <i>Carvajal-Hausdorf DE, Toki M, Schalper KA, Puztai L, Psyrrri A, Kalogeras KT, Kotoula V, Fountzilias G, Rimm DL. Yale University New Haven, CT; Attikon University Hospital, Athens, Greece; Aristotle University of Thessaloniki, Thessaloniki, Greece.</i>
<b>P3-08-01</b>	Randomized controlled trial of weight loss vs. usual care on telomere length in women with breast cancer: The lifestyle, exercise and nutrition (LEAN) study <i>Sanft T, Lu L, Harrigan M, Cartmel B, Zhou Y, Chagpar A, Puztai L, Irwin M. Yale University School of Medicine, New Haven, CT; Yale University School of Public Health, New Haven, CT.</i>
<b>P3-13-01</b>	Impact of routine cavity shave margins on time and money: Results from the SHAVE trial <i>Chagpar AB, Longley PB, Horowitz NR, Killelea BK, Tsangaris TN, Li F, Butler M, Stavris K, Yao X, Harigopal M, Bossuyt V, Lannin DR, Puztai L, Loftus M, Davidoff AJ, Gross CP. Yale University School of Medicine, New Haven, CT; Yale-New Haven Hospital, New Haven, CT; Thomas Jefferson University, Philadelphia, PA; Yale Center for Analytical Sciences, New Haven, CT; Yale Cancer Outcomes, Public Policy, and Effectiveness Research Center, New Haven, CT.</i>
<b>P3-14-05</b>	Interim analysis of a phase 1 study of the antibody-drug conjugate SGN-LIV1A in patients with metastatic breast cancer <i>Forero A, Burris III H, Mita M, Specht J, Weise A, Liu MC, Modi S, Puztai L, Kostic A, Yang J, Li M, Hengel S, Miller K. University of Alabama at Birmingham, Birmingham, AL; Sarah Cannon Research Institute/Tennessee Oncology, Nashville, TN; Cedars-Sinai Medical Center, Los Angeles, CA; Seattle Cancer Care Alliance, University of Washington, Seattle, WA; Karmanos Cancer Institute, Detroit, MI; Mayo Clinic, Rochester, MN; Memorial Sloan Kettering Cancer Center, New York, NY; Yale University School of Medicine, New Haven, CT; Seattle Genetics, Inc., Bothell, WA; Indiana University Melvin and Bren Simon Cancer Center, Indianapolis, IN.</i>

## Poster Session 4

<b>P4-04-04</b>	Triple-negative (TN) and HER2+ breast cancers (BC) have different immune milieu in primary and metastatic tumors <i>Bianchini G, Riba M, Zambelli S, Safonov A, Ogiya R, Jiang T, Hatzis C, Niiikura N, Zambetti M, Iwamoto T, Puztai L, Gianni L. Ospedale San Raffaele, Milan, Italy; Fondazione Centro San Raffaele, Milano, Italy; Yale Comprehensive Cancer Center, Yale School of Medicine, New Haven, CT; Tokai University School of Medicine, Isehara, Japan; Kyoto University School of Medicine, Kyoto, Japan; Okayama University Hospital, Okayama, Japan.</i>
<b>P4-04-20</b>	Subtype specific differential expression and immunogenicity of endogenous retrovirus elements in breast cancer <i>Safonov A, Bianchini G, Jiang T, Puztai L, Hatzis C. Yale School of Medicine, New Haven, CT; Yale Cancer Center, New Haven, CT; San Raffaele Scientific Institute (Milan, Italy).</i>

<b>P4-07-01</b>	DNA repair deficiency enhances immune response and correlates with excellent clinical outcome in triple negative breast cancer Jiang T, Safonov A, Bianchini G, Shi W, Wali VB, Puzstai L, Hatzis C. Yale Cancer Center, New Haven, CT; San Raffaele Scientific Institute, Milan, Italy.
<b>P4-09-22</b>	Quantitative immuno-fluorescent evaluation of Her2 expression levels in a prospectively collected cohort of breast cancer cases: Comparison to conventional IHC scoring and FISH Neumeister VM, Yan SS, McGuire JA, Carvajal DE, Prasad ML, Rimm DL. Yale University, School of Medicine, New Haven, CT.

#### Poster Session #5

<b>P5-07-09</b>	Heterogeneity of tumor infiltrating lymphocytes in breast cancer and its impact for use as a biomarker <i>Mani NL, Schalper K, Hatzis C, Chagpar A, Puzstai L, Rimm DL. Yale University School of Medicine, New Haven, CT.</i>
<b>P5-07-12</b>	Local nuclear architecture features from H&E images predict early versus distant recurrence in lymph node negative, ER+ breast cancers Ali S, Rimm D, Ganesan S, Madabhushi A. Case Western Reserve University, Cleveland, OH; Yale University, New Haven, CT; Rutgers University, Piscataway, NJ.
<b>P5-11-03</b>	Development of an interactive text messaging tool to improve adherence with adjuvant endocrine therapy: Breast cancer endocrine therapy adherence (BETA) pilot study Epstein LN, Jhaveri AP, Han G, Abu-Khalaf MM, Hofstatter EW, Sanft TB, DiGiovanna MP, Silber AL, Adelson KB, Chung GG, Puzstai L, Gross CP, Mougalian SS. Yale Cancer Center, New Haven, CT; Yale School of Medicine, New Haven, CT.
<b>P5-14-04</b>	A phase 2 study evaluating orteronel, an inhibitor of androgen biosynthesis, in patients with androgen receptor (AR)-expressing metastatic breast cancer: Interim analysis Yardley DA, Peacock N, Young RR, Silber A, Chung G, Webb CD, Jones SF, Shastry M, Midha R, DeBusk LM, Hainsworth JD, Burris HA. Sarah Cannon Research Institute/Tennessee Oncology, PLLC, Nashville, TN; The Center for Cancer and Blood Disorders, Fort Worth, TX; Yale School of Medicine, New Haven, CT; Baptist Health Louisville, Louisville, KY; Sarah Cannon Research Institute, Nashville, TN.
<b>P5-17-03</b>	The 12-gene DCIS score assay: Impact on radiation treatment (XRT) recommendations and clinical utility Manders JB, Kuerer HM, Smith BD, McCluskey C, Farrar WB, Frazier TG, Li L, Leonard CE, Carter DL, Chawla S, Medeiros LE, Guenther JM, Castellini LE, Buchholz DJ, Mamounas EP, Wapnir IL, Horst KC, Chagpar A, Evans SB, Riker AI, Vali FS, Solin LJ, Jablon L, Recht A, Sharma R, Lu R, Sing AP, Hwang ES, White J. The Christ Hospital Health Network, Cincinnati, OH; University of Texas M.D. Anderson Cancer Center, Houston, TX; Ohio State University James Cancer Hospital, Columbus, OH; Bryn Mawr Hospital, Bryn Mawr, PA; Rocky Mountain Cancer Centers, Denver, CO; Rochester Regional Health System, Rochester, NY; Saint Elizabeth Medical Center, Inc., Edgewood, KY; UF Health Cancer Center at Orlando Health, Orlando, FL; Stanford University, Stanford Cancer Institute, Palo Alto, CA; Yale University, New Haven, CT; Advocate Christ Medical Center, Oak Lawn, IL; Albert Einstein Health Network, Philadelphia, PA; Beth Israel Deaconess Medical Center, Boston, MA; Genomic Health, Inc., Redwood City, CA; Duke University Medical Center, Durham, NC.

#### Poster Session #6

<b>P6-03-08</b>	Novel recurrent lncRNA fusions detected in breast cancer using RNA-Seq technology in a neoadjuvant setting <i>Agrawal V, Varadan V, Banerjee N, Miskimen K, Vadodkar A, Abu-Khalaf M, Sikov W, Harris L, Dimitrova N. Philips Research North America, Briarcliff Manor, NY; Case Comprehensive Cancer Center, Case Western Reserve University, Cleveland, OH; Yale Comprehensive Cancer Center, New Haven, CT; Warren Alpert Medical School of Brown University, Providence, RI; Seidman Cancer Center, University Hospitals, Cleveland, OH.</i>
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<b>P6-11-03</b>	A cost effectiveness analysis of baseline left ventricular function assessment for breast cancer patients undergoing anthracycline chemotherapy Safonov A, Hatzis C, Stratton J, Gross C, Russell R, Puztai L, Abu-Khalaf M. Yale School of Medicine, New Haven, CT; Section of Medical Oncology, Yale School of Medicine, New Haven, CT; Cancer Outcomes, Public Policy and Effectiveness Research Center, Yale School of Medicine, New Haven, CT, New Haven, CT; Section of Cardiovascular Medicine, Yale School of Medicine, New Haven, CT, New Haven, CT.
<b>P6-13-06</b>	Novel combination therapies for triple negative breast cancer identified by high-throughput screening Wali V, Langdon C, Held M, Platt J, Safonov A, Aktas B, Stern D, Puztai P, Hatzis C. Yale Cancer Center, Yale University, New Haven, CT.

#### Poster Session OT#1

<b>OT1-03-11</b>	Phase III randomized, placebo-controlled clinical trial evaluating the use of adjuvant endocrine therapy +/- one year of everolimus in patients with high-risk, hormone receptor (HR) positive and HER2-negative breast cancer (BC): SWOG/NRG/Alliance S1207 (NCT01674140) <i>Chavez-MacGregor M, Barlow WE, Puztai L, Goetz MP, Rastogi P, Ganz PA, Mamounas EP, Paik S, Bandos H, Gralow J, Lew DL, Hortobagyi GN. The University of Texas MD Anderson Cancer Center; Cancer Research and Biostatistics, SWOG Statistical Center; Yale Cancer Center, Yale School of Medicine; Mayo Clinic; NRG Oncology/NSABP and UPMC Cancer Center; UCLA Jonsson Comprehensive Cancer Center; NRG Oncology/NSABP and UF Health Cancer Centre; NRG Oncology/NSABP, and the Severance BioMedical Science Institute and Yonsei University College of Medicine; NRG Oncology, and the University of Pittsburgh, Graduate School of Public Health; University of Washington/Seattle Cancer Care Alliance; SWOG Statistical Center.</i>
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#### Poster Discussion #4

<b>PD4-07</b>	Impact of breast density legislation on Hispanic / Latinas in the Northeast, US <i>Jones BA, Philpotts L, Cooley R, Silber A, Epstein L, Claye E. Yale University School of Medicine, New Haven, CT.</i>
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#### Poster Discussion #6

<b>PD6-06</b>	Somatic mutation patterns differentially affect survival in breast cancer molecular subtypes <i>Gyorffy B, Pongor L, Szabo A, Bottai G, Puztai L, Santarpia L. MTA TTK Lendület Cancer Biomarker Research Group, Budapest, Hungary; 2nd Dept. of Pediatrics, Semmelweis University, Budapest, Hungary; Oncology Experimental Therapeutic Unit, Humanitas Clinical and Research Institute, Milano, Italy; Yale Cancer Center Genetics and Genomics Program, Yale University School of Medicine, New Haven.</i>
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#### General Session #5

##### **S5-01. Whole exome sequencing of pre-treatment biopsies from the neoALTTO trial to identify DNA aberrations associated with response to HER2-targeted therapies**

Puztai L, Shi W, Jiang T, Nuciforo P, Holmes E, Harbeck N, Sotiriou C, Rimm D, Hatzis C, de la Peña L, Armour A, Piccart-Gebhart M, Baselga J. Yale University, New Haven, CT; Vall d'Hebron Institute of Oncology, Barcelona, Spain; Frontier Science (Scotland) Ltd; University of Munich; Jules Bordet Institute and Memorial Sloan Kettering Cancer Center; SOLTI Clinical Trial Group; Novartis.

##### **S5-05. Trastuzumab emtansine improves overall survival versus treatment of physician's choice in patients with previously treated HER2-positive metastatic breast cancer: Final overall survival results from the phase 3 TH3RESA study**

Wildiers H, Kim S-B, Gonzalez-Martin A, LoRusso PM, Ferrero J-M, Yu R, Smitt M, Krop I. University Hospitals Leuven, Leuven, Belgium; Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea; Centro Oncológico MD Anderson International España, Madrid, Spain; Yale Cancer Center, Yale University Medical Center,

New Haven, CT; Centre Antoine Lacassagne, Nice, France; Genentech, Inc, South San Francisco, CA; Dana-Farber Cancer Institute, Boston, MA.