



Oncotype DX:
Scientific Publications
and Presentations

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Oncotype DX[®]

Scientific Publications and Presentations

A Tool for Individualized Breast Cancer Treatment

Oncotype DX is a clinically validated, multi-gene assay that assesses the benefit from certain types of chemotherapy and provides a quantitative assessment of the likelihood of distant breast cancer recurrence. The Oncotype DX assay provides valuable, patient-specific information used to assist physicians in optimizing and individualizing treatment plans. This brochure provides a listing of journal articles, abstracts, presentations, and posters that address the development, validation, predictive power and impact on treatment planning of the Oncotype DX assay.

Key Oncotype DX Publications

Clinical Validation

1. A Multigene Assay to Predict Recurrence of Tamoxifen-Treated, Node-Negative Breast Cancer

S Paik, S Shak, G Tang, C Kim, J Baker, M Cronin, FL Baehner, MG Walker, D Watson, T Park, W Hiller, ER Fisher, DL Wickerham, J Bryant, N Wolmark

N Engl J Med. 2004;351(27):2817-2826

2. A Population-Based Study of Tumor Gene Expression and Risk of Breast Cancer Death Among Lymph Node-Negative Patients

LA Habel, S Shak, M Jacobs, A Capra, C Alexander, M Pho, J Baker, MG Walker, D Watson, J Hackett, N Blick, D Greenberg, L Fehrenbacher, B Langholz, CP Quesenberry

Breast Cancer Res. 2006;8(3):R25

3. Gene Expression and Benefit of Chemotherapy in Women with Node-Negative, Estrogen Receptor-Positive Breast Cancer

S Paik, G Tang, S Shak, C Kim, J Baker, W Kim, M Cronin, FL Baehner, D Watson, J Bryant, JP Costantino, C Geyer Jr., DL Wickerham, N Wolmark

J Clin Oncol. 2006;24(23):3726-3734

4. Prognostic Utility of the 21-Gene Assay in Hormone Receptor-Positive Operable Breast Cancer Compared with Classical Clinicopathologic Features

LJ Goldstein, R Gray, S Badve, BH Childs, C Yoshizawa, S Rowley, S Shak, FL Baehner, PM Ravdin, NE Davidson, GW Sledge Jr, EA Perez, LN Shulman, S Martino, JA Sparano

J Clin Oncol 2008; 26(25):4058-9

5. 21-Gene Expression Profile Assay on Core Needle Biopsies Predicts Responses to Neoadjuvant Endocrine Therapy in Breast Cancer Patients

S Akashi-Tanaka, C Shimizu, M Ando, T Shibata, N Katsumata, T Kouno, K Terada, T Shien, M Yoshida, T Hojo, T Kinoshita, Y Fujiwara, K Yoshimura
The Breast (2009), doi:10.1016/j.breast.2009.03.005

6. Prognostic and Predictive Value of the 21-Gene Recurrence Score Assay in Postmenopausal, Node-Positive, Estrogen Receptor-Positive Breast Cancer

K Albain, W Barlo, S Shak, G Hortobagyi, R Livingston, I-T Yeh, P Ravdin, R Bugarini, FL Baehner, NE Davidson, GW Sledge, E Winer, C Hudis, J Ingle, E Perez, K Pritchard, L Shepherd, J Gralow, C Yoshizawa, D Allred, C Osborne, D Hayes

Lancet Oncology 2009, (Published online ahead of print)

Decision Impact

7. Impact of a Commercial Reference Laboratory Test Recurrence Score on Decision Making in Early-Stage Breast Cancer

R Oratz, D Paul, AL Cohn, SM Sedlacek

J Oncol Pract. 2007;3(4):182-186

Neoadjuvant Treatment

8. Gene Expression Profiles in Paraffin-Embedded Core Biopsy Tissue Predict Response to Chemotherapy in Women with Locally Advanced Breast Cancer

L Gianni, M Zambetti, K Clark, J Baker, M Cronin, J Wu, G Mariani, J Rodriguez, M Carcangiu, D Watson, P Valagussa, R Rouzier, WF Symmans, JS Ross, GN Hortobagyi, L Pusztai, S Shak

J Clin Oncol. 2005;23(29):7265-7277

9. Gene Expression Patterns in Formalin-Fixed, Paraffin-Embedded Core Biopsies Predict Docetaxel Chemosensitivity in Breast Cancer Patients

J Chang, A Makris, MC Gutierrez, SG Hilsenbeck, JR Hackett, J Jeong, ML Liu, J Baker, K Clark-Langone, FL Baehner, K Sexton, S Mohsin, T Gray, L Alvarez, GC Chamness, CK Osborne, S Shak

Breast Cancer Res Treat. 2007 (Published online ahead of print)

Health Economics

10. Economic Analysis of Targeting Chemotherapy Using a 21-Gene RT-PCR Assay in Lymph Node-Negative, Estrogen Receptor-Positive, Early-Stage Breast Cancer

J Hornberger, LE Cosler, GH Lyman

Am J Manag Care. 2005;11(5):313-324

11. Impact of a 21-Gene RT-PCR Assay on Treatment Decisions in Early-Stage Breast Cancer, An Economic Analysis Based on Prognostic and Predictive Validation Studies

GH Lyman, LE Cosler, NM Kuderer, J Hornberger

Cancer. 2007;109(6):1011-1018

12. Does Oncotype DX Recurrence Score Affect the Management of Patients with Early-Stage Breast Cancer?

J Asad, AF Jacobson, A Estabrook, SR Smith, SK Boolbol, SM Feldman, MP Osborne, K Boachie-Adjei, W Twardzik, PI Tarter

Am J Surg 2008; 196(4):527-9

Platform Technology

13. Measurement of Gene Expression in Archival Paraffin-Embedded Tissues

M Cronin, M Pho, D Dutta, JC Stephans, S Shak, MC Kiefer, JM Esteban, JB Baker

Am J Pathol. 2004;164(1):35-429

14. Analytical Validation of the Oncotype DX Genomic Diagnostic Test for Recurrence Prognosis and Therapeutic Response Prediction in Node-Negative, Estrogen Receptor-Positive Breast Cancer

M Cronin, C Sangli, ML Liu, M Pho, D Dutta, A Nguyen, J Jeong, J Wu, KC Langone, D Watson

Clin Chem. 2007;53(6):1084-1091

Assay Development

15. Prognostic Role of a Multigene Reverse Transcriptase-PCR Assay in Patients with Node-Negative Breast Cancer Not Receiving Adjuvant Systemic Therapy

FJ Esteva, AA Sahin, M Cristofanilli, K Coombes, SJ Lee, J Baker, M Cronin, MG Walker, D Watson, S Shak, GN Hortobagyi

Clin Cancer Res. 2005;11(9):3315-3319

16. Tumor Gene Expression and Prognosis in Breast Cancer Patients with 10 or More Positive Lymph Nodes

MA Cobleigh, B Tabesh, P Bitterman, J Baker, M Cronin, ML Liu, R Borchik, JM Mosquera, MG Walker, S Shak

Clin Cancer Res. 2005;11(24 Pt 1):8623-8631

17. Predicting Response to Primary Chemotherapy: Gene Expression Profiling of Paraffin-Embedded Core Biopsy Tissue

L Mina, SE Soule, S Badve, FL Baehner, J Baker, M Cronin, D Watson, ML Liu, GW Sledge Jr, S Shak, KD Miller

Breast Cancer Res Treat. 2007;103(2):197-208

Estrogen Receptor and Progesterone Receptor

18. Estrogen- and Progesterone-Receptor Status in ECOG 2197: Comparison of Immunohistochemistry by Local and Central Laboratories and Quantitative Reverse Transcription Polymerase Chain Reaction by Central Laboratory

SS Badve, FL Baehner, RP Gray, BH Childs, T Maddala, Mei-Lan Liu, SC Rowley, S Shak, ED Perez, LJ Shulman, S Martino, NE Davidson, GW Sledge, LJ Goldstein, and JA Sparano

J Clin Oncol. 2008;26(15):2473-2481

19. Problems and Solutions in the Evaluation of Hormone Receptors in Breast Cancer

D. Craig Allred

J Clin Oncol. 2008;26(15): 2433-2435

Additional Oncotype DX Related Articles

Roadmap for Developing and Validating Therapeutically Relevant Genomic Classifiers

R Simon

J Clin Oncol. 2005;23(29):7332-7341

Adjuvant Chemotherapy for Patients with Estrogen Receptor-Positive Breast Cancer

HJ Burstein, S Paik, P Ravdin, K Albain

ASCO Educational Book 2006

Development and Clinical Utility of a 21-Gene Recurrence Score Prognostic Assay in Patients with Early Breast Cancer Treated with Tamoxifen

S Paik

Oncologist. 2007;12(6):631-635

American Society of Clinical Oncology 2007 Update of Recommendations for the Use of Tumor Markers in Breast Cancer

L Harris, H Fritsche, R Mennel, L Norton, P Ravdin, S Taube, MR Somerfield, DF Hayes, RC Bast Jr.

J Clin Oncol. 2007;25(33):5287-5312

Development of the 21-Gene Assay and Its Application in Clinical Practice and Clinical Trials

J Sparano, S Paik

J Clin Oncol. 2008;28(5):721-728

An ideal prognostic test for estrogen receptor-positive breast cancer?

S Paik, G Tang, D Fumagalli

J Clin Oncol 2008; 26(25):4058-9

Association Between Standard Clinical and Pathologic Characteristics and the 21-Gene Recurrence Score in Breast Cancer Patients

I Wolf, N Ben-Baruch, R Shapira-Frommer, S Rizel, H Goldberg, N Yaal-Hahoshen, B Klein, D Geffen, B Kaufman

Cancer (2008) 112(4): 731-6.

Thresholds for therapies: highlights of the St Gallen International Expert Consensus on the Primary Therapy of Early Breast Cancer 2009

A Goldhirsch, JN Ingle, RD Gelber, AS Coates, B Thurlimann, HJ Senn

Ann Oncol. 2009 Jun 17. [Epub ahead of print]

The Influence of a Gene Expression Profile on Breast Cancer Decisions

L Henry, A Stojadinovic, S Swain, S Prindiville, R Cordes, P Soballe

Journal of Surgical Oncology 2009;99:319-323

Gene Expression-Based Prognostic and Predictive Markers for Breast Cancer: A Primer for Practicing Pathologists

C Kim, Y Taniyama, S Paik

Arch Pathol Lab Med 2009; (133): 855-9.

TAILORx Trial Articles

The TAILORx Trial: Individualized Options for Treatment

JA Sparano

Commun Oncol. 2006;3:494-496

TAILORx: Trial Assigning Individualized Options for Treatment (Rx)

JA Sparano

Clin Breast Cancer. 2006;7(4):347-350

Design of and Rationale for the Trial Assigning Individualized Options for Treatment (TAILORx)

JA Sparano

ASCO Educational Book 2007

Scientific Presentations, Posters & Abstracts

2009 San Antonio Breast Cancer Symposium (SABCS) - San Antonio, TX

Abstract # 112

Prediction of 10-year chemotherapy benefit and breast cancer-specific survival by the 21-gene Recurrence Score (RS) assay in node-positive, ER-positive breast cancer-An update of SWOG-8814 (INT0100)

K. Albain, W. Barlow, S. Shak, G. Hortobagyi, R. Livingston, I-T. Yeh, P. Ravdin, R. Bugarini, F.L. Baehner, N.E. Davidson, G.W. Sledge, C. Hudis, E.A. Perez, D.C. Allred, C.K. Osborne and D.F. Hayes

Abstract # 2031

Effect of 21-Gene Recurrence Score Results on Treatment Recommendations in Patients with Lymph Node-Positive, Estrogen Receptor-Positive Breast Cancer

R. Oratz, C. Chao, S. Skrzypczak, B. Kim, M. Broder

Abstract # 5165

Gene Expression Profiling of Phenotypically-Defined Hormone-Receptor Positive Breast Cancer: Evidence for Increased Transcriptional Activity of the Insulin Growth Factor Receptor Pathway and Other Pathways

J.A. Sparano, R. Gray, L.J. Goldstein, B.H. Childs, D. Brassard, R. Bugarini, S. Rowley, J. Baker, S. Shak, S. Badve, F.L. Baehner, P. Kenny, E.A. Perez, L.N. Shulman, S. Martino, G.W. Sledge, NE Davidson

Abstract # 6004

HER2 amplification, Polysomy Status and Breast Cancer Survival in a Large Kaiser Permanente Case-Control Study: Assessment of HER2 by Quantitative Reverse Transcriptase Polymerase Chain Reaction (RT-PCR) and Fluorescence in Situ Hybridization (FISH)

F.L. Baehner, N. Achacoso, T. Maddala, C. Alexander, S. Shak, C.P. Quesenberry, L.A. Habel

Abstract # 6021

Molecular Characterization of Breast Cancer Core Biopsy Specimens by Gene Expression Analysis Using Standardized Quantitative RT-PCR

J.M. Anderson, S. Shak, C. Millward, M. Labusch, I. Chen, D. Watson, F.L. Baehner

2009 American Society of Clinical Oncology (ASCO) Breast Cancer Symposium- San Francisco, CA

Abstract # 64

Biopsy Cavities in Breast Cancer Specimens: Their Impact on Quantitative RT-PCR Gene Expression Profiles and Recurrence Risk Assessment

FL Baehner, C. Quale, D. Cherbavaz, C. Sangli, C. Pomeroy, A. Chen, F. Lane, L. Intagliatta, A. Goddard, S. Shak

Abstract # 175

Gene Expression Profiles Of Synchronous Breast Tumors

L. Bellin, K. Hollowell, L. Dobbs, K. M. Verbanac, C. Behrens, T. Fitzgerald, E. E. Zervos

2009 ASCO Annual Meeting_ Orlando, FL

Abstract # 500

Genotypic characterization of phenotypically defined triple-negative breast cancer

J. A. Sparano, L. J. Goldestin, B. H. Childs, S. Shak, S. Badve, F. L. Baehner

Abstract # 549

Molecular characterization of male breast cancer by standardized quantitative RTPCR analysis: First large genomic study of 347 male breast cancers compared to 82,434 female breast cancers.

S. Shak, G. Palmer, F. L. Baehner, C. Millward, D. Watson, G. W. Sledge

2009 Kyoto Breast Cancer Consensus Conference International Convention Kyoto, Japan

Abstract

The First Report Of The Association Between The Recurrence Score And The Risk Of Recurrence In A Japanese Population

M. Toi, H. Iwata, N. Masuda, S. Ohno, S. Namakura, Y. Yamanaka, T. Nakayama, M. Kashiwaba, S. Kamigaki, K. Aogi, T. Ueno, K. Kuroi

2009 United States and Canadian Academy of Pathology (USCAP) Annual Meeting Boston, MA

Abstract # 1421

HER2 Concordance between Central Laboratory Immunohistochemistry, FISH and Quantitative RT-PCR in Intergroup Trial E2197

Baehner FL, Gray R, Maddala T, Childs B, Rowley S, Shak S, Davidson NE, Sledge GW, Goldstein LJ, Sparano JA, Badve S

Abstract # 1574

Biopsy Cavities in Breast Cancer Specimens: Impact on Quantitative RT-PCR Gene Expression Profiles and Recurrence Risk Assessment

FL Baehner, C Quale, C Pomeroy, D Cherbavaz, S Shak

Abstract # 2285

ER and PR Assessment by Central IHC: Examination and Comparison of Percent Positive Cells and Nuclear Staining Intensity in ECOG Breast Cancer Study 2197

S Badve, R Gray, B Childs, T Maddala, M Liu, S Rowley, N Davidson, S Shak, LJ Goldstein, GW Sledge, JA Sparano, FL Baehner

**2008 San Antonio Breast Cancer Symposium (SABCS)-
San Antonio, TX**

Abstract # 25

GRB7-dependent pathways are potential therapeutic targets in triple-negative breast cancer

Sparano JA, Gray R, Goldstein LJ, Childs BH, Bugarini R, Rowley S, Baker J, Shak S, Badve S, Baehner FL, Perez EA, Shulman LN, Martino S, Sledge Jr. GW, Davidson

Abstract # 53

Risk of distant recurrence using oncotype DX in postmenopausal primary breast cancer patients treated with anastrozole or tamoxifen: a TransATAC study

Dowsett M, Cuzick J, Wales C, Forbes J, Mallon L, Salter J, Quinn E, Bugarini R, Baehner FL, Shak S, on Behalf of the ATAC Trialists' Group Royal Marsden Hospital, London, United Kingdom; Wolfson Institute for Preventive Medicine, London, United Kingdom; Newcastle Mater Hospital, Newcastle, Australia; Royal Infirmary, Glasgow, United Kingdom; Genomic Health Institute, Redwood, CA

Abstract # 2066

Quantitative gene expression analysis using Oncotype DX in ductal carcinoma in situ that is adjacent to invasive ductal carcinoma

Baehner FL, Sangli C, Millward C, Cherbavaz D, Goddard A, Shak S Genomic Health, Inc, Redwood City, CA

Abstract # 3049

Associations between estrogen receptor (ER) Alpha expression levels and ER genotypes

Henry NL, Shak S, Banerjee M, Skaar T, Palmer G, Braman M, Stearns V, Flockhart DA, Klee C, Hayes DF, Rae J University of Michigan, Ann Arbor, MI; Genomic Health, Inc., Redwood City, CA; Indiana University, Indianapolis, IN; Johns Hopkins University, Baltimore, MD

2008 American Society of Clinical Oncology (ASCO) Breast Cancer Symposium-Washington DC

Abstract #13

HER2 Concordance Between Central Laboratory Immunohistochemistry & Quantitative Reverse Transcription Polymerase Chain Reaction in Intergroup Trial E2197

FL Baehner, R Gray, B Childs, T Maddala, S Rowley, S Shak, NE Davidson, GW Sledge, LJ Goldstein, JA Sparano, S Badve

Abstract #41

HER2 Assessment in a Large Kaiser Permanente Case-Control Study: Comparison of Fluorescence In Situ Hybridization (FISH) and Quantitative Reverse Transcription Polymerase Chain Reaction (RT-PCR) Performed by Central Laboratories

FL Baehner, Achacoso, T Maddala, C Alexander, S Shak, CP Quesenberry, LC Goldstein, AM Gown, LA Habel

Abstract #82: Oral Presentation

Analysis of Revised Nottingham Tumor Grade Constitutive Components and Recurrence Free Interval in ECOG Breast Cancer Study E2197

FL Baehner, LJ Goldstein, R Gray, T Maddala, S Shak, GW Sledge, JA Sparano, S Badve

Abstract #44: Poster Session

Comparison of ER and PR Assessment by Local IHC, Central IHC, and Central Quantitative RT-PCR in ECOG Breast Cancer Study 2197

S Badve, FL Baehner, R Gray, B Childs, T Maddala, M Liu, S Rowley, N Davidson, LJ Goldstein, GW Sledge, JA Sparano

Abstract #47: Poster Session

A Kaiser-Permanente Population-Based Study of Breast Cancer ER and PR Expression by the Standard Method, Immunohistochemistry, Compared to a New Method, Quantitative Reverse Transcription Polymerase Chain Reaction

FL Baehner, T Maddala, C Alexander, A Gown, LC Goldstein, S Shak, CP Quesenberry, L Habel

Abstract #50: Poster Session

Heterogeneity of Quantitative RT-PCR Measurement of Estrogen and Progesterone Receptor Expression: Comparison of Tissue Microarray Cores to Whole Sections of Paraffin Embedded Breast Cancer Tissue

FL Baehner, J Baker, J Salter, ML Liu, C Yoshizawa, T Maddala, M Dowsett, M Cronin, S Shak

2008 Hematology/Oncology Pharmacy Association (HOPA) - Anaheim, CA

Poster Session

Low Recurrence Score by the Oncotype DX Breast Cancer Assay Rarely Results in Recommendation for or Administration of Chemotherapy: A Pooled Analysis

P Hall, S Skrzypczak, G Palmer

2008 American Society of Clinical Oncology (ASCO) - Chicago, Ill

Abstract #3512: Oral Presentation

Evaluation of tumor gene expression and K-Ras mutations in FFPE tumor tissue as predictors of response to cetuximab in metastatic colorectal cancer

JB Baker, D Dutta, D Watson, T Maddala, S Shak, EK Rowinsky, L Xu, E Clark, DJ Mauro, S Khambata-Ford

Abstract #557: Poster Session

Predictive utility of progesterone receptor (PR) and multigene expression in identifying benefit from adjuvant doxorubicin plus cyclophosphamide (AC) or docetaxel (AT) in intergroup trial E2197

LJ Goldstein, RJ Gray, R Bugarini, S Shak, SS Badve, FL Baehner, NE Davidson, GW Sledge, JA Sparano

2008 United States and Canadian Academy of Pathology (USCAP) 97th Annual Meeting - Denver, CO

Abstract #82: Oral Presentation

Analysis of Revised Nottingham Tumor Grade Constitutive Components and Recurrence Free Interval in ECOG Breast Cancer Study E2197

FL Baehner, LJ Goldstein, R Gray, T Maddala, S Shak, GW Sledge, JA Sparano, S Badve

Abstract #44: Poster Session

Comparison of ER and PR Assessment by Local IHC, Central IHC, and Central Quantitative RT-PCR in ECOG Breast Cancer Study 2197

S Badve, FL Baehner, R Gray, B Childs, T Maddala, M Liu, S Rowley, N Davidson, LJ Goldstein, GW Sledge, JA Sparano

Abstract #47: Poster Session

A Kaiser-Permanente Population-Based Study of Breast Cancer ER and PR Expression by the Standard Method, Immunohistochemistry, Compared to a New Method, Quantitative Reverse Transcription Polymerase Chain Reaction

FL Baehner, T Maddala, C Alexander, A Gown, LC Goldstein, S Shak, CP Quesenberry, L Habel

Abstract #50: Poster Session

Heterogeneity of Quantitative RT-PCR Measurement of Estrogen and Progesterone Receptor Expression: Comparison of Tissue Microarray Cores to Whole Sections of Paraffin Embedded Breast Cancer Tissue

FL Baehner, J Baker, J Salter, ML Liu, C Yoshizawa, T Maddala, M Dowsett, M Cronin, S Shak

2008 ASCO Gastrointestinal Cancers Symposium Orlando, FL

Abstract #301: Poster Session

Relationship between tumor gene expression and recurrence in patients with stage II/III colon cancer treated with surgery + 5-FU/LV in NSABP C-06: Consistency of results with two other independent studies

MJ O'Connell, G Yothers, S Paik, IC Lavery, JW Cowens, KM Clark-Langone, M Llopain, JR Hackett, FL Baehner, N Wolmark

Abstract #302: Poster Session

Relationship between tumor gene expression and recurrence in an observational cohort of patients with stage II/III colon cancer treated with surgery only: Quantitative RT-PCR assay of 375 genes in fixed paraffin-embedded (FPE) tissue

I Lavery, J Hammel, J Cowens, K Clark-Langone, J Hackett, F Baehner, G Yothers, M O'Connell, N Wolmark

2007 San Antonio Breast Cancer Symposium (SABCS) — San Antonio, TX

Abstract #10: Oral Presentation

Prognostic and Predictive Value of the 21-Gene Recurrence Score Assay in Postmenopausal, Node-Positive, ER-Positive Breast Cancer

K Albain, W Barlow, S Shak, G Hortobagyi, R Livingston, I Yeh, P Ravdin, C Yoshizawa, FL Baehner, N Davidson, G Sledge, E Winer, C Hudis, J Ingle, E Perez, K Pritchard, L Shepherd, C Allred, K Osborne, D Hayes

Abstract #63: Oral Presentation

Prognostic Utility of the 21-Gene Assay Compared with Adjuvant! in Hormone Receptor (HR) Positive Operable Breast Cancer with 0-3 Positive Axillary Nodes Treated with Adjuvant Chemohormonal Therapy (CHT): An Analysis of Intergroup Trial E2197

L Goldstein, P Ravdin, R Gray, C Yoshizawa, B Childs, S Rowley, S Shak, S Badve, FL Baehner, N Davidson, GW Sledge, JA Sparano

Abstract #1043: Poster Session

Recurrence Score by Oncotype DX Evaluated on the Primary Breast Tumor Predicts the 2-Year Survival after First Relapse

G Bianchini, M Zambetti, P Mariani, A Moliterni, G Bianchi, G Mariani, A Fasolo, ML Carcangiu, P Valagussa, L Gianni

Abstract #1092: Poster Session

Prospective Multi-Center Study of the Impact of the 21-Gene Recurrence Score Assay on Patient Satisfaction, Anxiety and Decisional Conflict for Adjuvant Breast Cancer Treatment Selection

PB Mumby, SS Lo, J Norton, J Smerage, K Joseph, HK Chew, D Hayes, KS Albain

Abstract #2061: Poster Session

A Retrospective Analysis of the Impact of Oncotype DX Low Recurrence Score Results on Treatment Decisions in a Single Academic Breast Cancer Center

H Liang, AM Brufsky, BB Lembersky, P Rastogi, VG Vogel

Abstract #3028: Poster Session

Gene Expression by Standardized Quantitative RT-PCR in the Special Histologic Subtypes of Estrogen Receptor-Positive Invasive Breast Cancer

FL Baehner, D Watson, JT Ballard, G Palmer, S Shak

Abstract #3082: Poster Session

Evaluation of Practice Patterns in the Treatment of Node-Negative, Hormone-Receptor Positive Breast Cancer Patients with the Use of the Oncotype DX Assay at the University of Pennsylvania

C Erb, KR Fox, M Patel, K Hook, A DeMichele, C Kaplan, S Domchek

Abstract #5029: Poster Session

Estrogen Receptor and Breast Cancer Survival in a Kaiser Permanente Population-Based Study: Comparison of Quantitative Reverse Transcriptase Polymerase Chain Reaction and Immunohistochemistry

LA Habel, N Achacoso, T Maddala, C Alexander, FL Baehner, S Shak, C Quesenberry, AM Gown, LC Goldstein

**2007 American Society of Clinical Oncology (ASCO)
Breast Cancer Symposium — San Francisco, CA**

Abstract #27

Association of Individual Genes with Risk of Relapse in Operable Breast Cancer: Analysis of E2197

JA Sparano, L Goldstein, B Childs, C Yoshizawa, S Shak, J Baker, S Rowley, N Davidson, S Badve, GW Sledge Jr., R Gray

Abstract #87

ER and PR Assessment in ECOG 2197: Comparison of Locally Determined IHC with Centrally Determined IHC and Quantitative RT-PCR

SS Badve, FL Baehner, R Gray, B Childs, T Maddala, M Liu, S Rowley, N Davidson, S Shak, GW Sledge Jr., JA Sparano

Abstract #88

A Kaiser-Permanente Population-Based Study of ER and PR Expression by the Standard Method, Immunohistochemistry (IHC), Compared to a New Method, Quantitative Reverse Transcription Polymerase Chain Reaction (RT-PCR)

FL Baehner, T Maddala, C Alexander, A Gown, LC Goldstein, NS Achacoso, S Shak, CP Quesenberry, LA Habel

Abstract #106

Use of Estrogen Receptor (ER) Expression by Quantitative RT-PCR to Identify an ER-Negative Subgroup by IHC Who Might Benefit from Hormonal Therapy

G Bianchini, M Zambetti, L Pusztai, M Carcangiu, P Valagussa, L Gianni

2007 ASCO Annual Meeting — Chicago, IL

Abstract #526: Poster Discussion

Prognostic Utility of the 21-Gene Assay in Hormone Receptor (HR)-Positive Operable Breast Cancer and 0-3 Positive Axillary Nodes Treated with Adjuvant Chemohormonal Therapy (CHT): An Analysis of Intergroup Trial E2197

LJ Goldstein, R Gray, B Childs, D Watson, S Rowley, S Shak, S Badve, NE Davidson, GW Sledge, JA Sparano

Abstract #577: Poster Session

Prospective Multi-Center Study of the Impact of the 21-Gene Recurrence Score (RS) Assay on Medical Oncologist (MO) and Patient (PT) Adjuvant Breast Cancer (BC) Treatment Selection

SS Lo, J Norton, PB Mumby, J Smerage, J Kash, HK Chew, D Hayes, A Epstein, KS Albain

2007 American Association for Cancer Research (AACR) Annual Meeting — Los Angeles, CA

Abstract #4423: Poster Session

Optimized RNA Extraction and RT-PCR Provide Successful Molecular Analysis on a Variety of Archival Fixed Tissues

M Zhou, M Bronner, C Magi-Galluzzi, R Tuthill, FL Baehner, ML Liu, D Dutta, J Jeong, YT Chen, JR Hackett, M Cronin

2006 Association for Molecular Pathology (AMP) Annual Meeting — Orlando, FL

Poster ST23 — see Publication #10

Analytical Validation for the Oncotype DX Breast Cancer Assay, a High Complexity, Multi-Analyte Molecular Diagnostic Test Service

M Cronin, C Sangli, ML Liu, M Pho, D Dutta, A Nguyen, J Jeong, J Wu, K Clark, D Watson

2006 SABCS — San Antonio, TX

Abstract #45: Oral Presentation

Quantitative RT-PCR Analysis of ER and PR by Oncotype DX Indicates Distinct and Different Associations with Prognosis and Prediction of Tamoxifen Benefit

FL Baehner, LA Habel, CP Quesenberry, A Capra, G Tang, S Paik, N Wolmark, D Watson, S Shak

Abstract #3116: Poster Presentation

A Comparison of Estrogen Receptor (ER) Measurement by Three Methods in Node-Negative, Estrogen Receptor (ER)-Positive Breast Cancer: Ligand Binding (LB), Immunohistochemistry (IHC), and Quantitative RT-PCR

C Kim, G Tang, FL Baehner, D Watson, JP Costantino, S Paik, S Shak, N Wolmark

Abstract #6039: Poster Presentation

The Impact on the Recurrence Score Due to Patient Variation in the Quantitative Expression of Individual Genes or Gene Groups

D Watson, G Palmer, J Baker, S Shak

Abstract #6111: Poster Presentation

Relationship Between Proliferation Genes and Expression of Hormone and Growth Factor Receptors: Quantitative RT-PCR in 10,618 Breast Cancers

S Shak, FL Baehner, G Palmer, JT Ballard, J Baker, D Watson

Abstract #6118: Poster Presentation

Subtypes of Breast Cancer Defined by Standardized Quantitative RT-PCR Analysis of 10,618 Tumors

S Shak, FL Baehner, G Palmer, JT Ballard, J Baker, D Watson

2006 ASCO Annual Meeting — Atlanta, GA

Abstract #538: Poster Discussion — see Publication #6

Gene Expression Profiles in Formalin-Fixed, Paraffin-Embedded (FFPE) Core Biopsies Predict Docetaxel Chemosensitivity

JC Chang, A Makris, SG Hilsenbeck, JR Hackett, J Jeong, ML Liu, J Baker, K Sexton, CK Osborne, S Shak

Abstract #3518: Poster Discussion

Relationship Between Tumor Gene Expression and Recurrence in Stage II/III Colon Cancer: Quantitative RT-PCR Assay of 757 Genes in Fixed Paraffin-Embedded (FPE) Tissue

MJ O'Connell, S Paik, G Yothers, JP Costantino, JW Cowens, KM Clark, J Baker, J Hackett, D Watson, N Wolmark

Abstract #6024: Poster Discussion — see Publication #8

21-Gene RT-PCR Assay in Lymph Node-Negative (LN-), Estrogen Receptor-Positive (ER+) Breast Cancer: An Economic Analysis Including Prognostic and Predictive Information

LE Cosler, NM Kuderer, J Hornberger, GH Lyman

2006 AACR Annual Meeting — Washington, DC

Poster Discussion

Multiple GSTM Gene Family Members Are Recurrence Risk Markers in Breast Cancer

M Kiefer, K Hoyt, J Hackett, MG Walker, J Baker

2005 SABCs — San Antonio, TX

Abstract #29: Oral Presentation

Association Between the 21-Gene Recurrence Score Assay (RS) and Risk of Loco-Regional Failure in Node-Negative, ER-Positive Breast Cancer: Results from NSABP B-14 and NSABP B-20

E Mamounas, G Tang, J Bryant, S Paik, S Shak, JP Costantino, D Watson, DL Wickerham, N Wolmark

Abstract #310: Poster Discussion

Measurement of Gene Expression Using Tissue Microarray Cores of Paraffin-Embedded Breast Cancer Tissue

J Baker, J Salter, ML Liu, JR Hackett, M Cronin, S Shak, M Dowsett

Abstract #2049: Poster Session — see Publication #4

Impact of Oncotype DX™ on Decision Making in Breast Cancer Clinical Practice

R Oratz, D Paul, A Cohn, S Sedlacek

2005 ASCO Annual Meeting — Orlando, FL

Abstract #510: Oral Presentation

Expression of the 21 Genes in the Recurrence Score Assay and Tamoxifen Clinical Benefit in the NSABP Study B-14 of Node-Negative, Estrogen Receptor-Positive Breast Cancer

S Paik, S Shak, G Tang, C Kim, J Baker, M Cronin, D Watson, J Bryant, JP Costantino, N Wolmark

Abstract #603: Poster Session — see Publication #2

Gene Expression and Breast Cancer Mortality in Northern California Kaiser Permanente Patients: A Large Population-Based Case Control Study

LA Habel, CP Quesenberry, M Jacobs, D Greenberg, L Fehrenbacher, C Alexander, J Baker, D Watson, J Hackett, S Shak

2004 SABCs — San Antonio, TX

Abstract #24: Oral Presentation — see Publication #3

Expression of the 21 Genes in the Recurrence Score Assay and Prediction of Clinical Benefit from Tamoxifen in NSABP Study B-14 and Chemotherapy in NSABP Study B-20

S Paik, S Shak, G Tang, C Kim, H Joo, J Baker, M Cronin, D Watson, J Bryant, JP Costantino, N Wolmark

Abstract #104: Poster Discussion

Risk Classification of Breast Cancer Patients by the Recurrence Score Assay: Comparison to Guidelines Based on Patient Age, Tumor Size, and Tumor Grade

S Paik, S Shak, G Tang, C Kim, J Baker, M Cronin, FL Baehner, MG Walker, D Watson, J Bryant, N Wolmark

Abstract #2081: Poster Discussion

A 21-Gene RT-PCR Assay in Lymph Node-Negative (LN-), Estrogen Receptor-Positive (ER+) Early-Stage Breast Cancer (ESBC): An Age-Specific Economic Analysis

GH Lyman, L Cosler, J Hornberger

2004 ASCO Annual Meeting — New Orleans, LA

Abstract #501: Oral Presentation — see Publication #5

Gene Expression Profiles of Paraffin-Embedded Core Biopsy Tissue Predict Response to Chemotherapy in Patients with Locally Advanced Breast Cancer

L Gianni, M Zambetti, K Clark, J Baker, M Cronin, G Mariani, J Rodriguez, M Carcangiu, D Watson, P Valagussa, S Shak

Abstract #6036: Poster Session — see Publication #7

Economic Analysis of Targeting Chemotherapy (CT) Using a 21-Gene RT-PCR Assay in Lymph Node-Negative (LN-), Estrogen Receptor-Positive (ER+) Early-Stage Breast Cancer (ESBC)

LE Cosler, J Hornberger, GH Lyman

2004 United States and Canadian Academy of Pathology (USCAP) Annual Meeting — Vancouver, British Columbia

Comparison of ER, PR, HER2, and Ki-67 Quantitative Expression in Formalin-Fixed, Paraffin-Embedded Breast Carcinomas by RT-PCR with Protein Expression by Immunohistochemistry

P Bitterman, D Watson, M Cronin, JM Mosquera, M Cobleigh, R Baehner, S Shak, J Baker

Use of Macrodissection in Multi-Gene RNA Analysis of Fixed Paraffin-Embedded Tumor Tissue

R Baehner, B Hiller, CY Kim, C Alexander, ML Liu, M Pho, D Dutta, J Jeong, A Nguyen, M Walker, M Cronin, J Baker, S Paik

Reproducibility of Quantitative Gene Expression Analysis by a New RT-PCR Assay Using Fixed Paraffin-Embedded Tissues: A Molecular Tomographic Scanning Study

M Cronin, D Watson, D Dutta, ML Liu, M Pho, R Baehner, J Esteban, J Baker, S Shak

2003 SABCS — San Antonio, TX

Abstract #16: Oral Presentation — see Publication #1

Multi-Gene RT-PCR Assay for Predicting Recurrence in Node-Negative Breast Cancer Patients — NSABP Studies B-20 and B-14

S Paik, S Shak, G Tang, C Kim, J Baker, M Cronin, FL Baehner, MG Walker, D Watson, T Park, W Hiller, ER Fisher, DL Wickerham, J Bryant, N Wolmark

Abstract #17: Oral Presentation — see Publication #11

Prognostic Role of a Multigene Reverse Transcriptase-PCR Assay in Patients with Node-Negative Breast Cancer Not Receiving Adjuvant Systemic Therapy

FJ Esteva, AA Sahin, M Cristofanilli, K Coombes, SJ Lee, J Baker, M Cronin, MG Walker, D Watson, S Shak, GN Hortobagyi

2003 ASCO Annual Meeting — Chicago, IL

Abstract #763: Oral Presentation

Quantitative Gene Expression in Non-Small Cell Lung Cancer from Paraffin-Embedded Tissue Specimens: Predicting Response to Gefitinib, an EGFR Kinase Inhibitor

RB Natale, S Shak, N Aronson, S Averbuch, W Fox, D Luthringer, K Clark, J Baker, M Cronin, DB Agus

Abstract #3415: Poster Session — see Publication #12

Tumor Gene Expression Predicts Distant Disease-Free Survival (DDFS) in Breast Cancer Patients with 10 or More Positive Nodes: High Throughput RT-PCR Assay of Paraffin-Embedded Tumor Tissues

MA Cobleigh, P Bitterman, J Baker, M Cronin, ML Liu, R Borchik, B Tabesh, J Mosquera, MG Walker, S Shak

Abstract #3416: Poster Discussion

Tumor Gene Expression and Prognosis in Breast Cancer: Multi-Gene RT-PCR Assay of Paraffin-Embedded Tissue

JM Esteban, J Baker, M Cronin, ML Liu, MG Llamas, MG Walker, R Mena, S Shak

Abstract #3466: Poster Session

Predicting Response to Neoadjuvant Chemotherapy in Invasive Breast Cancer: Gene Expression Profiling of Paraffin-Embedded Core Biopsy Tissue

SE Soule, S Shak, J Baker, M Cronin, ML Liu, S Badve, KD Miller, GW Sledge

2003 AACR Oncogenomics Meeting — Phoenix, AZ

Poster Session — see Publication #9

Gene Expression Profiling of Fixed, Paraffin-Embedded Tumor Specimens, Using a 192 Gene Panel RT-PCR Assay

M Kiefer, J Stephans, ML Liu, D Dutta, M Pho, A Nguyen, J Jeong, M Cronin, JM Esteban

EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics

Strategies to Optimize Anti-Receptor Therapies

J Baselga

2002 ASCO Annual Meeting — Orlando, FL

Abstract #3017 — see Publication #9

Gene Expression Profiling of Fixed Paraffin-Embedded Breast Cancer Tissues

M Kiefer, J Stephans, S Abulaban, S Shodhan, MC Alexander, JM Esteban



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