



Dr. Gregory Bean

Associate Professor of Pathology

CLINICAL OFFICE (PRIMARY)

- **Surgical Pathology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

William Santos - Administrative Assistant

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Bio

BIO

Dr. Bean is an Associate Professor who specializes in breast pathology. His research interests include molecular characterization of breast cancer subtypes and precursors. He is also involved with the training of residents and fellows on the breast service.

CLINICAL FOCUS

- Breast Pathology
- Molecular Pathology
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Pathology

ADMINISTRATIVE APPOINTMENTS

- Associate Director, Breast Pathology Service, (2022- present)

PROFESSIONAL EDUCATION

- Medical Education: Washington University School Of Medicine (2014) MO
- Residency: UCSF Pathology Residency (2017) CA
- Board Certification: Anatomic Pathology, American Board of Pathology (2017)
- Doctor of Philosophy, Washington University School Of Medicine , MO (2014)

Publications

PUBLICATIONS

- **RNA in situ hybridization detection of CRTC1/3::MAML2 fusions and LINC00473 in mucoepidermoid carcinomas and hidradenomas of breast, salivary glands, and skin.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*

- Rutland, C. D., Kingsley, L., Wang, A., Zdravkovic, S., Das, I., Bremer, R., Laser, J. S., Bridge, J. A., Bishop, J. A., Krings, G., Chen, Y. Y., Bean, G. R.
2025: 100756
- **Genetic and Immunohistochemical Profiling of Mammary Hidradenoma and Comparison to Mucoepidermoid Carcinoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Black, M. A., Neumann, N. M., Krings, G., Najjar, S., Troxell, M. L., Wang, A., Devine, W. P., Vohra, P., Gasper, C., Chen, Y. Y., Cohen, J. N., Bean, G. R.
2023: 100270
 - **Genetic and immunohistochemical profiling of small cell and large cell neuroendocrine carcinomas of the breast.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Bean, G. R., Najjar, S., Shin, S. J., Hosfield, E. M., Caswell-Jin, J. L., Urisman, A., Jones, K. D., Chen, Y., Krings, G.
2022
 - **Nodular fasciitis of the breast: clinicopathologic and molecular characterization with identification of novel USP6 fusion partners.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Cloutier, J. M., Kunder, C. A., Charville, G. W., Hosfield, E. M., García, J. J., Brown, R. A., Troxell, M. L., Allison, K. H., Bean, G. R.
2021
 - **Primary mammary angiosarcomas harbor frequent mutations in KDR and PIK3CA and show evidence of distinct pathogenesis.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Beca, F., Krings, G., Chen, Y., Hosfield, E. M., Vohra, P., Sibley, R. K., Troxell, M. L., West, R. B., Allison, K. H., Bean, G. R.
2020
 - **Recurrent GNAQ mutations in anastomosing hemangiomas** *MODERN PATHOLOGY*
Bean, G. R., Joseph, N. M., Gill, R. M., Folpe, A. L., Horvai, A. E., Umetsu, S. E.
2017; 30 (5): 722-727
 - **Reporting of both positive and negative concordance is necessary to recognise and investigate bias in digital algorithms.** *Journal of clinical pathology*
Troxell, M. L., Karakas, C., Lam, M. M., Dussaq, A. M., Bean, G., Allison, K. H.
2026
 - **Hidradenoma in Axillary Lymph Nodes: A Diagnostic Pitfall Mimicking Metastatic Carcinoma.** *The American journal of surgical pathology*
Bean, G. R., Kingsley, L. G., Tan, J., Rutland, C. D., Lin, R., Bridge, J. A., Patel, P. B., Vohra, P., Krings, G., Chen, Y. Y.
2026
 - **TRPS1 Expression Across the Spectrum of Paget Disease and Morphologic Mimics.** *Applied immunohistochemistry & molecular morphology : AIMM*
Rutland, C. D., Wang, A., Zdravkovic, S., Wieland, R., Brown, R. A., Baker, G. M., Troxell, M. L., Krings, G., Bean, G. R.
2026
 - **Genetic profiling of mammary periductal stromal tumors with histologic correlation highlights high-grade and low-grade groups and similarities to phyllodes tumors.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Krings, G., Bean, G. R., Hosfield, E. M., Rowe, J. J., Geradts, J., Chen, Y. Y.
2026: 100961
 - **Genetic and immunohistochemical studies identify recurrent ACTB mutations and PTEN alterations in tubular adenomas of the breast.** *Histopathology*
Ingyin, H., Solomon, J. P., Li, Y., Xu, D., Racchumi, J., Wang, A., Allard, G., Gao, G., Ma, Z., Lin, C. Y., Chen, Y. Y., Krings, G., Troxell, et al
2025
 - **Mammary small cell neuroendocrine carcinomas that showed excellent pathologic response following etoposide-based neoadjuvant chemotherapy.** *Breast cancer research and treatment*
Hammer, P. M., Enamandram, S., Ikeda, D. M., Lam, M. M., Wapnir, I. L., Chamberlain, E. D., Shaheen, S., Caswell-Jin, J. L., Itakura, H., Bean, G. R.
2025; 215 (1): 10
 - **Current Concepts and Controversies in Post-Neoadjuvant Breast Pathology.** *Human pathology*
Bean, G. R., Calhoun, B. C.

2025: 105825

- **Classification of Invasive Lobular Carcinoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Troxell, M. L., Allison, K. H., Ernst, K., Lam, M. M., Bean, G. R.
2025; 38 (6): 100758
- **DCIS-like invasive carcinoma of the breast with tumour-associated microvasculature mimicking myoepithelium: a diagnostic pitfall.** *Histopathology*
Salisbury, T., Rendi, M., Bhalli, R., Bean, G. R., Allison, K. H., Troxell, M. L.
2025
- **Catching Up to Increased Complexity in Breast Cancer Molecular Testing.** *The Journal of molecular diagnostics : JMD*
Bean, G. R., Lin, C. Y., Krystel-Whittemore, M., Sun, L.
2025
- **Dermatofibrosarcoma protuberans with PDGFD rearrangements: a case series featuring a novel EMILIN1::PDGFD fusion and comprehensive literature review.** *Virchows Archiv : an international journal of pathology*
Sotiriou, S., Chatzopoulos, K., Charville, G. W., Bean, G. R., Michal, M., Gross, J. M., Bridge, J. A., Gardner, J. M., Agaimy, A., Ng, T. L., Cloutier, J. M., Saoud, C., Linos, et al
2025
- **Serous-like breast carcinomas: immunophenotypic, genetic, and clinicopathologic characterization of a morphologically distinct group of tumours.** *Histopathology*
Krings, G., Shamir, E. R., Laé, M., Bean, G. R., Post, M. D., Schnitt, S. J., Chen, Y. Y.
2024
- **PViT-AIR: Puzzling vision transformer-based affine image registration for multi histopathology and faxitron images of breast tissue.** *Medical image analysis*
Golestani, N., Wang, A., Moallem, G., Bean, G. R., Rusu, M.
2024; 99: 103356
- **Radial Sclerosing Lesion (Radial Scar): Radiologic-Pathologic Correlation.** *Journal of breast imaging*
Yan, P., Bean, G., Bao, J., Dashevsky, B. Z.
2024
- **Targeted DNA sequencing in diagnosis of malignant phyllodes tumors with emphasis on tumors with keratin and p63 expression.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Ye, J., Theparee, T., Bean, G. R., Rutland, C. D., Schwartz, C. J., Vohra, P., Allard, G., Wang, A., Hosfield, E. M., Peng, Y., Chen, Y. Y., Krings, G.
2024: 100593
- **Breast Hemangiomas: Imaging Features With Histopathology Correlation.** *Journal of breast imaging*
Dhami, A., Hao, M., Waheed, U., Dashevsky, B. Z., Bean, G. R.
2024
- **Assessing breast cancer chemotherapy response in radiology and pathology reports via a Large Language Model**
Dodhia, P., Meepagala, S., Moallem, G., Rubin, D., Bean, G., Rusu, M.
edited by Yoshida, H., Wu, S.
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Wilms Tumor: An Unexpected Diagnosis in Adult Patients.** *Archives of pathology & laboratory medicine*
Chan, G. J., Stohr, B. A., Osunkoya, A. O., Croom, N. A., Cho, S. J., Balassanian, R., Charu, V., Bean, G. R., Chan, E.
2023
- **Solid-basaloid adenoid cystic carcinoma of the breast: an aggressive subtype enriched for Notch pathway and chromatin-modifier mutations with MYB overexpression.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Shamir, E. R., Bean, G. R., Schwartz, C. J., Vohra, P., Wang, A., Allard, G. M., Wolsky, R. J., Garcia, J. J., Chen, Y. Y., Krings, G.
2023: 100324
- **Radiation-Induced Morphea of the Breast Treated With Wide Local Excision and Abdominal Free Flap Breast Reconstruction.** *Eplasty*
Titan, A., Mohan, A. T., Tokuyama, M., Mirbegan, J., Bean, G. R., Lee, G. K.

2023; 23: e50

- **Low-grade fibromyxoid sarcoma of the breast: genetic characterization and immunohistochemical comparison to morphologic mimics.** *Human pathology*
Cloutier, J. M., Moreland, A., Wang, L., Kunder, C. A., Allard, G., Wang, A., Krings, G., Charville, G. W., Bean, G. R.
2023
- **Contemporary diagnostic approach to atypical vascular lesion and angiosarcoma.** *Seminars in diagnostic pathology*
Rutland, C. D., Bean, G. R., Charville, G. W.
2023
- **Triple-Negative Apocrine Carcinomas: Toward a Unified Group With Shared Molecular Features and Clinical Behavior.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Schwartz, C. J., Ruiz, J., Bean, G. R., Sirohi, D., Joseph, N. M., Hosfield, E. M., Jacobs, T. W., Mukhtar, R. A., Chen, Y. Y., Krings, G.
2023; 36 (5): 100125
- **BreastRegNet: A Deep Learning Framework for Registration of Breast Faxitron and Histopathology Images**
Golestani, N., Wang, A., Bean, G. R., Rusu, M.
edited by Hering, A., Woo, J., Silva, W., Li, Fu, H., Liu, Xing, F., Purushotham, S., Mathai, T. S., Mukherjee, P., DeGrauw, M., Tan, R. B., Corbetta, Kotter, E., Reyes, M., Baumgartner, C. F., Li, Q., Leahy, R., Dong, B., Chen, H., Huo, Y., Lv, J., Xu, Li, Mahapatra, D., Cheng, L., Petitjean, C., Presles, B.
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- **Uterine Inflammatory Myofibroblastic Tumors: Proposed Risk Stratification Model Using Integrated Clinicopathologic and Molecular Analysis.** *The American journal of surgical pathology*
Ladwig, N. R., Bean, G. R., Pekmezci, M., Boscardin, J., Joseph, N. M., Therrien, N., Sangoi, A. R., Piening, B., Rajamanickam, V., Galvin, M., Bernard, B., Zaloudek, C., Rabban, et al
2022
- **Transcriptional and Immune Landscape of Cardiac Sarcoidosis.** *Circulation research*
Liu, J., Ma, P., Lai, L., Villanueva, A., Koenig, A., Bean, G. R., Bowles, D. E., Glass, C., Watson, M., Lavine, K. J., Lin, C. Y.
2022: 101161CIRCRESAHA121320449
- **The interaction of SWI/SNF with the ribosome regulates translation and confers sensitivity to translation pathway inhibitors in cancers with complex perturbations.** *Cancer research*
Ulicna, L., Kimmey, S. C., Weber, C. M., Allard, G. M., Wang, A., Bui, N. Q., Bendall, S. C., Crabtree, G. R., Bean, G. R., Van Rechem, C.
2022
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022
- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*
Olivieri, J., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.
2021; 10
- **Skin angiography assisted mastectomy in secondary breast angiosarcoma: Complete clinical response after neoadjuvant immunotherapy.** *The breast journal*
Ju, T., Foster, D., Titan, A., Najjar, S., Bean, G. R., Ganjoo, K., Wapnir, I.

2021

- **Spatial proteomic characterization of HER2-positive breast tumors through neoadjuvant therapy predicts response** *NATURE CANCER*
McNamara, K. L., Caswell-Jin, J. L., Joshi, R., Ma, Z., Kotler, E., Bean, G. R., Kriner, M., Zhou, Z., Hoang, M., Beechem, J., Zoeller, J., Press, M. F., Slamon, et al
2021; 2 (4): 400-+
- **Spatial proteomic characterization of HER2-positive breast tumors through neoadjuvant therapy predicts response.** *Nature cancer*
McNamara, K. L., Caswell-Jin, J. L., Joshi, R., Ma, Z., Kotler, E., Bean, G. R., Kriner, M., Zhou, Z., Hoang, M., Beechem, J., Zoeller, J., Press, M. F., Slamon, et al
2021; 2 (4): 400-413
- **PDGFB RNA in situ hybridization for the diagnosis of dermatofibrosarcoma protuberans.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Cloutier, J. M., Allard, G. n., Bean, G. R., Hornick, J. L., Charville, G. W.
2021
- **Molecular Testing in Breast Cancer: Current Status and Future Directions.** *The Journal of molecular diagnostics : JMD*
Sun, L., Wu, A., Bean, G. R., Hagemann, I. S., Lin, C. Y.
2021
- **Evaluation of ductal carcinoma in situ grade via triple-modal molecular imaging of B7-H3 expression.** *NPJ breast cancer*
Bachawal, S., Bean, G. R., Krings, G., Wilson, K. E.
2020; 6 (1): 14
- **Molecular Characterization of Metanephric Adenomas Beyond BRAF: Genetic Evidence for Potential Malignant Evolution.** *Histopathology*
Chan, E., Stohr, B. A., Croom, N. A., Cho, S., Garg, K., Troxell, M. L., Higgins, J. P., Bean, G. R.
2020
- **NTRK Fusion Cervical Sarcoma: A Report of 3 Cases, Emphasizing Morphological and Immunohistochemical Distinction from Other Uterine Sarcomas, including Adenosarcoma.** *Histopathology*
Rabban, J. T., Devine, P., Sangoi, A. R., Poder, L., Alvarez, E., Davis, J. L., Rudzinski, E., Garg, K., Bean, G. R.
2020
- **Efficacy of affibody-based ultrasound molecular imaging of vascular B7-H3 for breast cancer detection.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Bam, R. n., Lown, P. S., Stern, L. A., Sharma, K. n., Wilson, K. E., Bean, G. R., Lutz, A. M., Paulmurugan, R. n., Hackel, B. J., Dahl, J. n., Abou-Elkacem, L. n.
2020
- **Pathologic and molecular responses to neoadjuvant trastuzumab and/or lapatinib from a phase II randomized trial in HER2-positive breast cancer (TRIO-US B07).** *Nature communications*
Hurvitz, S. A., Caswell-Jin, J. L., McNamara, K. L., Zoeller, J. J., Bean, G. R., Dichmann, R., Perez, A., Patel, R., Zehngbot, L., Allen, H., Bosserman, L., DiCarlo, B., Kennedy, et al
2020; 11 (1): 5824
- **HER2 Dual In Situ Hybridization: Correlations and Cautions.** *Archives of pathology & laboratory medicine*
Troxell, M. n., Sibley, R. K., West, R. B., Bean, G. R., Allison, K. H.
2020
- **Pan-TRK Immunohistochemistry: A Useful Diagnostic Adjunct For Secretory Carcinoma of the Breast.** *The American journal of surgical pathology*
Harrison, B. T., Fowler, E., Krings, G., Chen, Y., Bean, G. R., Vincent-Salomon, A., Fuhrmann, L., Barnick, S. E., Chen, B., Hosfield, E. M., Hornick, J. L., Schnitt, S. J.
2019
- **Synchronous Breast Implant-associated Anaplastic Large Cell Lymphoma and Invasive Carcinoma: Genomic Profiling and Management Implications.** *Plastic and reconstructive surgery. Global open*
Mukhtar, R. A., Holland, M., Sieber, D. A., Wen, K. W., Rugo, H. S., Kadin, M. E., Bean, G. R.
2019; 7 (4): e2188

- **CRTC1-MAML2 fusion in mucoepidermoid carcinoma of the breast** *HISTOPATHOLOGY*
Bean, G. R., Krings, G., Otis, C. N., Solomon, D. A., Garcia, J. J., van Zante, A., Camelo-Piragua, S., van Ziffle, J., Chen, Y.
2019; 74 (3): 463–73
- **DICER1 mutations are frequent in müllerian adenosarcomas and are independent of rhabdomyosarcomatous differentiation.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Bean, G. R., Anderson, J., Sangoi, A. R., Krings, G., Garg, K.
2018
- **Recurrent GNA14 mutations in anastomosing haemangiomas.** *Histopathology*
Bean, G. R., Joseph, N. M., Folpe, A. L., Horvai, A. E., Umetsu, S. E.
2018; 73 (2): 354-357
- **Adipocyte size variability in benign and malignant lipomatous tumors and morphologic mimics: a quantitative definition using digital pathology.** *Human pathology*
Bean, G. R., Wen, K. W., Horvai, A. E.
2018; 72: 52-58
- **Fibroepithelial lesions; The WHO spectrum.** *Seminars in diagnostic pathology*
Krings, G., Bean, G. R., Chen, Y. Y.
2017; 34 (5): 438–452
- **Genomic profiling of breast secretory carcinomas reveals distinct genetics from other breast cancers and similarity to mammary analog secretory carcinomas.** *Modern pathology*
Krings, G., Joseph, N. M., Bean, G. R., Solomon, D., Onodera, C., Talevich, E., Yeh, I., Grenert, J. P., Hosfield, E., Crawford, E. D., Jordan, R. C., van Zante, A., Zaloudek, et al
2017
- **Arginine Deprivation Inhibits the Warburg Effect and Upregulates Glutamine Anaplerosis and Serine Biosynthesis in ASS1-Deficient Cancers** *CELL REPORTS*
Kremer, J. C., Prudner, B. C., Lange, S. E., Bean, G. R., Schultze, M. B., Brashears, C. B., Radyk, M. D., Redlich, N., Tzeng, S., Kami, K., Shelton, L., Li, A., Morgan, et al
2017; 18 (4): 991-1004
- **A metabolic synthetic lethal strategy with arginine deprivation and chloroquine leads to cell death in ASS1-deficient sarcomas** *CELL DEATH & DISEASE*
Bean, G. R., Kremer, J. C., Prudner, B. C., Schenone, A. D., Yao, J., Schultze, M. B., Chen, D. Y., Tanas, M. R., Adkins, D. R., Bomalaski, J., Rubin, B. P., Michel, L. S., Van Tine, et al
2016; 7
- **PUMA and BIM Are Required for Oncogene Inactivation-Induced Apoptosis** *SCIENCE SIGNALING*
Bean, G. R., Ganesan, Y. T., Dong, Y., Takeda, S., Liu, H., Chan, P. M., Huang, Y., Chodosh, L. A., Zambetti, G. P., Hsieh, J. J., Cheng, E. H.
2013; 6 (268)
- **BID, BIM, and PUMA Are Essential for Activation of the BAX- and BAK-Dependent Cell Death Program** *SCIENCE*
Ren, D., Tu, H., Kim, H., Wang, G. X., Bean, G. R., Takeuchi, O., Jeffers, J. R., Zambetti, G. P., Hsieh, J. J., Cheng, E. H.
2010; 330 (6009): 1390-1393
- **CpG Island Tumor Suppressor Promoter Methylation in Non-BRCA-Associated Early Mammary Carcinogenesis** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Vasilatos, S. N., Broadwater, G., Barry, W. T., Baker, J. C., Lem, S., dietze, E. C., Bean, G. R., Bryson, A. D., Piliie, P. G., Goldenberg, V., Skaar, D., Paisie, C., Torres-Hernandez, et al
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- **ESR1 promoter hypermethylation does not predict atypia in RPFNA nor persistent atypia after 12 months tamoxifen chemoprevention** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Baker, J. C., Ostrander, J. H., Lem, S., Broadwater, G., Bean, G. R., D'Amato, N. C., Goldenberg, V. K., Rowell, C., Ibarra-Drendall, C., Grant, T., Piliie, P. G., Vasilatos, S. N., Troch, et al
2008; 17 (8): 1884-1890
- **Morphologically normal-appearing mammary epithelial cells obtained from high-risk women exhibit methylation silencing of INK4a/ARF** *CLINICAL CANCER RESEARCH*

- Bean, G. R., Bryson, A. D., Pilié, P. G., Goldenberg, V., Baker, J. C., Ibarra, C., Brander, D. M., Paisie, C., Case, N. R., Gauthier, M., Reynolds, P. A., Dietze, E., Ostrander, et al
2007; 13 (22): 6834-6841
- **Atypia in random periareolar fine-needle aspiration affects the decision of women at high risk to take tamoxifen for breast cancer chemoprevention** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Goldenberg, V. K., Seewaldt, V. L., Scott, V., Bean, G. R., Broadwater, G., Fabian, C., Kimler, B., Zalles, C., Lipkus, I. M.
2007; 16 (5): 1032-1034
 - **Interferon regulatory factor-1 regulates reconstituted extracellular matrix (rECM)-mediated apoptosis in human mammary epithelial cells** *ONCOGENE*
Bowie, M. L., Troch, M. M., Delrow, J., Dietze, E. C., Bean, G. R., Ibarra, C., Pandiyan, G., Seewaldt, V. L.
2007; 26 (14): 2017-2026
 - **Overweight and obese perimenopausal and postmenopausal women exhibit increased abnormal mammary epithelial cytology** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Seewaldt, V. L., Goldenberg, V., Jones, L. W., Peace, C., Broadwater, G., Scott, V., Bean, G. R., Wilke, L. G., Zalles, C. M., Demark-Wahnefried, W.
2007; 16 (3): 613-616
 - **Hypermethylation of the breast cancer-associated gene 1 promoter does not predict cytologic atypia or correlate with surrogate end points of breast cancer risk** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
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Bean, G. R., Kimler, B. F., Seewaldt, V. L.
2006; 355 (15): 1620-1622
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2005; 118 (21): 5005-5022
 - **Retinoic acid receptor-beta 2 promoter methylation in random periareolar fine needle aspiration** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Bean, G. R., Scott, V., Yee, L., Ratliff-Daniel, B., Troch, M. M., Seo, P., Bowie, M. L., Marcom, P. K., Slade, J., Kimler, B. F., Fabian, C. J., Zalles, C. M., Broadwater, et al
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Ratliff, B., Dietze, E. C., Bean, G. R., Moore, C., Wanko, S., Seewaldt, V. L.
2004; 96 (11): 883-883
 - **Tamoxifen and tamoxifen ethyl bromide induce apoptosis in acutely damaged mammary epithelial cells through modulation of AKT activity** *ONCOGENE*
Dietze, E. C., Troch, M. M., Bean, G. R., Heffner, J. B., Bowie, M. L., Rosenberg, P., Ratliff, B., Seewaldt, V. L.
2004; 23 (21): 3851-3862
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Dietze, E. C., Troch, M. M., Bowie, M. L., Yee, L., Bean, G. R., Seewaldt, V. L.
2003; 302 (4): 841-848
 - **Retinoids and retinoic acid receptors regulate growth arrest and apoptosis in human mammary epithelial cells and modulate expression of CBP/p300** *MICROSCOPY RESEARCH AND TECHNIQUE*
Dietze, E. C., Caldwell, L. E., Marcom, K., Collins, S. J., Yee, L., Swisshelm, K., Hobbs, K. B., Bean, G. R., Seewaldt, V. L.

