

# Stanford

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## Dr. Gregory Bean

Assistant Professor of Pathology at the Stanford University Medical Center

### CLINICAL OFFICES

- **Surgical Pathology**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Charlene Armitage - Administrative Assistant

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### Bio

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#### BIO

Dr. Bean is an Assistant 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

- Anatomic Pathology
- Breast Pathology
- Molecular Pathology

#### ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Pathology

#### PROFESSIONAL EDUCATION

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

### Publications

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#### PUBLICATIONS

- **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

- **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
- **DICER1 mutations are frequent in müllerian adenocarcinomas 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): 354–57
  - **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
  - **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
  - **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
  - **Pathologic Features and Clinical Outcomes of Breast Cancers with HER2/CEP17 ratio < 2.0 and mean HER2 signals /cell > 6.0 by FISH; A Multi-Institutional Study**  
Ballard, M., Toukatly, M., Bean, G., Jalikis, F., Krings, G., Schmidt, R., Chen, Y., Rendi, M., Dintzis, S., Troxell, M., West, R., Sibley, R., Allison, et al  
NATURE PUBLISHING GROUP.2018: 48
  - **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
  - **Fibroepithelial lesions; The WHO spectrum.** *Seminars in diagnostic pathology*  
Krings, G., Bean, G. R., Chen, Y. Y.  
2017; 34 (5): 438–52
  - **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., Pilie, P. G., Goldenberg, V., Skaar, D., Paisie, C., Torres-Hernandez, et al  
2009; 18 (3): 901-914
- **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., Pilie, 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., Pilie, 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*  
Bean, G. R., Drendall, C. I., Goldenberg, V. K., Baker, J. C., Troch, M. M., Paisie, C., Wilke, L. G., Yee, L., Marcom, P. K., Kimler, B. F., Fabian, C. J., Zalles, C. M., Broadwater, et al  
2007; 16 (1): 50-56
  - **Long-term raloxifene in a woman at high risk for breast cancer** *NEW ENGLAND JOURNAL OF MEDICINE*  
Bean, G. R., Kimler, B. F., Seewaldt, V. L.  
2006; 355 (15): 1620-1622
  - **CREB-binding protein regulates apoptosis and growth of HMECs grown in reconstituted ECM via laminin-5** *JOURNAL OF CELL SCIENCE*  
Dietze, E. C., Bowie, M. L., Mrozek, K., Caldwell, L. E., Neal, C., Marjoram, R. J., Troch, M. M., Bean, G. R., Yokoyama, K. K., Ibarra, C. A., Seewaldt, V. L.  
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  
2005; 14 (4): 790-798
  - **Interferon-regulatory factor-1 is critical for tamoxifen-mediated apoptosis in human mammary epithelial cells** *ONCOGENE*  
Bowie, M. L., Dietze, E. C., Delrow, J., Bean, G. R., Troch, M. M., Marjoram, R. J., Seewaldt, V. L.  
2004; 23 (54): 8743-8755
  - **Re: Active tamoxifen metabolite plasma concentrations after coadministration of tamoxifen and the selective serotonin reuptake inhibitor paroxetine** *JOURNAL OF THE NATIONAL CANCER INSTITUTE*  
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

- **CBP/p300 induction is required for retinoic acid sensitivity in human mammary cells** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*

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.  
2002; 59 (1): 23-40