

Andrew H. Beck, MD, MMSc

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Residency and Fellowship Training

Clinical Fellowship in Molecular Genetic Pathology, Department of Pathology,
Stanford University Medical Center, 2008 - 2009

Residency in Anatomic Pathology, Department of Pathology,
Stanford University Medical Center, 2006 - 2010

Education

Ph.D. Training Program, Biomedical Informatics, Stanford University (Beginning Autumn 2009)

Doctor of Medicine, Brown Medical School, 2006

Master of Medical Science in Biostatistics, Brown University, 2006

Bachelors of Arts in History with Honors, Brown University, 2002

Research Experience

Postdoctoral researcher 2006 – Present

Matt van de Rijn MD PhD and Robert B West MD PhD
Stanford Medical Center

In the van de Rijn and West laboratory, my research interests are in three main areas: 1) Discovery of molecular subtypes in leiomyosarcoma and characterization of the molecular events involved in their pathogenesis; 2) Discovery and characterization of novel stromal signatures in the carcinoma microenvironment; and 3) Development and implementation of tools to use ultra-high-throughput sequencing for genomewide transcriptional profiling.

Research Assistant 2005 – 2006

Edmond Sabo MD and Murray Resnick MD, PhD
Brown Medical School

In the morphometry laboratory of Edmond Sabo and Murray Resnick, I helped to develop and apply morphometrical and statistical techniques to quantitatively characterize epithelial dysplasia in Barrett esophagus.

Research Assistant Summer 2003

David P Hajjar PhD and Andrew C. Nicholson DVM, PhD
Weill Medical College of Cornell University

In the Hajjar and Nicholson laboratory, I designed and interpreted experiments and performed a variety of molecular biology procedures and assays (e.g. cell culture, Western Blots, Northern Blots) to characterize the relationship between the macrophage membrane protein caveolin-1 and the scavenger receptor CD36 and to delineate their role in atherogenesis.

Awards

Advanced Residency Training at Stanford (ARTS) Program Fellowship, Beginning summer 2009

Stowell-Orbison Award for: “Discovery of Molecular Subtypes in Leiomyosarcoma through Integrative Molecular Profiling”, United States and Canadian Academy of Pathology Annual Meeting, Boston, MA, 2009

Pathobiology/Pangenomics Poster Award for: “Discovery of Molecular Subtypes in Leiomyosarcoma through Integrative Molecular Profiling”, United States and Canadian Academy of Pathology Annual Meeting, Boston, MA, 2009

Awarded Distinguished Honors Thesis for: “Morals and Metabolism: Elliott Proctor Joslin and the Conservative Management of Diabetes in Twentieth Century America”, Brown University, Department of History, 2002

Teaching Experience

Laboratory instructor, Human Health and Disease course, Stanford Medical School, 2006 – Present.

Teaching Assistant, Human Physiology, Brown University, BI0006, 2006

Tutor, USMLE step 1, Brown Medical School, 2005 - 2006

Publications

Journal Articles

2009

Sangoi AR, Dulai MS, **Beck AH**, Brat DJ, Vogel H. “Distinguishing Chordoid Meningiomas From Their Histologic Mimics: An Immunohistochemical Evaluation.” *American Journal of Surgical Pathology* 2009; Jan 22 [Epub ahead of print]

Beck AH, Espinosa I, Edris B, Li R, Montgomery K, Zhu S, Varma S, Marinelli RJ, van de Rijn M, West RB. “The CSF1 Response Signature in Breast Carcinoma.” *Clinical Cancer Research* 2009; 15: 778-87.

Weinberg OK, Ma L, Seo K, **Beck AH**, Pai RK, Morales A, Kim Y, Sundram U, Tan D, Horning SJ, Hoppe RT, Natkunam Y, Arber DA. “Low stage follicular lymphoma: biologic and clinical characterization according to nodal or extranodal primary origin.” *American Journal of Surgical Pathology* 2009; 33: 591-8.

2008

Beck AH, Espinosa I, Gilks CB, van de Rijn M, West RB. “The Fibromatosis Signature Defines a Robust Stromal Response in Breast Carcinoma.” *Laboratory Investigation* 2008; 88: 591-601.

2006

Sabo E, **Beck AH**, Montgomery EA, Bhattacharya B, Meitner P, Wang JY, Resnick MB. “Computerized Morphometry as an Aid in Determining the Grade of Dysplasia and Progression to Adenocarcinoma in Barrett’s Esophagus.” *Laboratory Investigation*. 2006; 86: 1261-71.

2004

Beck AH. “The Flexner Report and the Standardization of American Medical Education.” *Journal of the American Medical Association*. 2004; 291: 2139 - 2140.

Book Chapter

2007

Beck AH, Resnick MB, Drumea KC, Sabo E. "Quantitative Image Analysis for the Classification of Epithelial Neoplasia." Chapter 1, in Wu HS, Einstein A (Eds.), *Image Analysis in Medical Microscopy and Pathology*, Research Signpost, Kerala (2007).

Presentations at National Meetings

2009

Beck AH, Lee CH, Witten D, Espinosa I, Zhu S, Montgomery K, Tibshirani R, Hastie T, West RB, van de Rijn M. "Discovery of Molecular Subtypes in Leiomyosarcoma through Integrative Molecular Profiling." 2009 Annual United States and Canadian Association of Pathology Meeting in Boston, Massachusetts.

Sharma M, Espinosa I, **Beck AH**, Webster JA, Montgomery KD, van de Rijn M, Jensen KC, West RB. "CSF-1 and Fibromatosis Expression in Stroma of Ductal Carcinoma In Situ." 2009 Annual United States and Canadian Association of Pathology Meeting in Boston, Massachusetts.

2008

Beck AH, Espinosa I, Cheang MC, Nielsen TO, van de Rijn M, West RB. "The Fibromatosis Stromal Signature in Breast Carcinoma." 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

Beck AH, Espinosa I, van de Rijn M, West RB. "The CSF-1 Response Signature in Breast Carcinoma." 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

Espinosa I, **Beck AH**, Lee C, West RB, van de Rijn M. "Coordinate Expression of Colony Stimulating Factor-1 (CSF1) and CSF1 Related Proteins is Associated with Poor Prognosis in Leiomyosarcoma." 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

Weinberg OK, **Beck AH**, Pai RK, Tan D, Horning S, Hoppe R, Natkunam Y, Arber DA. "Extranodal Low Stage Follicular Lymphoma: A Clinicopathological, Immunohistochemical and Molecular Comparison to a Low Stage Nodal Follicular Lymphoma" 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

Ly A, **Beck AH**, Kong CS, Pai RK. "Increased Rate of Atypical Squamous Cells of Undetermined Significance and Declining High-Risk Human Papillomavirus Rates Following Implementation of ThinPrep Imaging System (Imager)" 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

Weinberg OK, Merker J, **Beck AH**, Seetharam M, Gotlib J, Zehnder JL, Arber DA. "Significance of NPM1 and FLT3 Mutations in Acute Myeloid Leukemia with Multilineage Dysplasia: Does NPM1 Identify a Lower Risk Group?" 2008 Annual United States and Canadian Association of Pathology Meeting in Denver, Colorado. Abstract published in *Modern Pathology* 2008; 21: 1s.

2006

Sabo E, **Beck AH**, Montgomery EA, Bhattacharya B, Wang JY, Resnick MB. "The Role of Nuclear Texture in Predicting Progression of Dysplasia to Adenocarcinoma in Barrett's Esophagus." In "Abstracts, XXVI International Congress of the International Academy of Pathology, September 16 - 21, 2006." Abstract published in *Modern Pathology* 2006; 19: suppl 3, 69.

Sabo E, **Beck AH**, Resnick MB. "Novel Indices of Spatial Distribution, Orientation and Complexity Applied to Barrett's Esophagus, for the Classification and Grading of Epithelial Dysplasia." Presented at the 2006 United States and Canadian Academy of Pathology Meeting in Atlanta, GA on February 13, 2006. Abstract published in *Modern Pathology* 2006; 19: suppl 19.

2005

Beck AH, Sabo E, Resnick MB. "Computerized Image Analysis to Quantify Dysplastic Nuclear Features in Barrett's Esophagus." In "Abstracts and Case Studies From the College of American Pathologists 2005 Annual Meeting (CAP '05)." Abstract published in *Archives of Pathology and Laboratory Medicine* 2006; 130: 242.

Presentations at Stanford University Medical Center

"Personalized Genomics for Molecular Pathology." Lab Core Lecture Series, March 2009.

"The State of Personalized Genomics." Genetics Grand Rounds, January 2009.

"KRAS in Colorectal Cancer." Clinical Pathology Conference, January 2009.

"Statistics for Pathology Research." Current Concepts Lecture Series, July 2008.

"J. Craig Venter's Diploid Genome and the Future of Personalized Genomics." Current Concepts Lecture Series, March 2008.

"Statistics in Surgical Pathology." Surgical Pathology talk, November 2007.

"The Fibromatosis Stromal Signature in Breast Carcinoma." Research talk, November 2007.

"Quality Assurance - Reporting of Resections for Carcinoma of the Bladder." Quality Assurance Lecture Series, September 2007.

"The Human Disease Network: A systems approach to explore relationships between genes and diseases." Current Concepts Lecture Series, September 2007.

"The Multiple Identities of the Carcinoma-Associated Fibroblast." Current Concepts Lecture Series, May 2007.

"Evaluation of prostatic neoplasia on needle biopsy." Surgical Pathology talk, January 2007.

Reviewer for Scientific Journal

Ad hoc reviewer for *Molecular Cancer Therapeutics* 2008 – Present

Ad hoc reviewer for *Clinical Cancer Research* 2007 – Present

Ad hoc reviewer for *Cancer Epidemiology Biomarkers and Prevention* 2007 – Present

Professional Organizations

Association for Molecular Pathology, 2008 - present.

United States and Canadian Academy of Pathology, 2006 - present.

Letters to the Editor

“Accepting Our Finitude” The Providence Journal, November 15, 2002. Sect. B, p. 5.

“The Newport Ideal” The New York Times, August 11, 2002. Sect. 2, p. 2.

“The American Diet” The New York Times, June 18, 2002. “Science Times”, p. 4.

“The Sabra” Times Literary Supplement, March 15, 2002. p. 17.

“How Best to Honor the World War II Generation?” The New York Times, May 26, 2001. Sect. A, p. 12.

Computer Skills

R, Java, Perl, Matlab, SPSS, L^AT_EX, Adobe Creative Suite

Interests

Music (www.myspace.com/johnharrisonjohnson)