

## Selected STA™/Mutector™ Publications

1. Herreros-Villanueva M, Chen CC, Yuan SS, Liu TC, Er TK. (2014). KRAS mutations: analytical considerations. Clin Chim Acta. 431:211
2. Jylling AMB, Rasmussen AA, Jakobsen EH, René dePont Christensen, Rd, and Flemming Brandt Sørensen FB. (2014). Are mutations in K-RAS, BRAF and PIK3CA genes critical for response to adjuvant trastuzumab treatment in patients with HER-2 positive breast cancer? JCTR 3
3. Raparia K, Villa C, Raj R, Cagle PT. (2014). Peripheral Lung Adenocarcinomas With KRAS Mutations Are More Likely to Invade/Invade/Visceral Pleura. Arch Pathol Lab Med. 2014 Apr 2. [Epub ahead of print]
4. Puri A, Saif MW. (2014). Pharmacogenomics update in pancreatic cancer. JOP. 15:114
5. Tseng D, Kim J, Warrick A, Nelson D, Pukay M, Beadling C, Heinrich M, Selim MA, Corless CL, Nelson K. (2014). Oncogenic mutations in melanomas and benign melanocytic nevi of the female genital tract. J Am Acad Dermatol. 2014 May 17.[Epub ahead of print]
6. Bowles DW, Ma WW, Senzer N, Brahmer JR, Adjei AA, Davies M, Lazar AJ, Vo A, Peterson S, Walker L, Hausman D, Rudin CM, Jimeno A. (2013). A multicenter phase 1 study of PX-866 in combination with docetaxel inpatients with advanced solid tumours. Br J Cancer. 109:1085
7. Huang T, Karsy M, Zhuge J, Zhong M, Liu D. (2013). B-Raf and the inhibitors: from bench to bedside. J Hematol Oncol. 6:30
8. Kang SY, Ahn S, Lee SM, Jeong JY, Sung JY, Oh YL, Kim KM (2013). Shifted termination assay (STA) fragment analysis to detect BRAF V600 mutations in papillary thyroid carcinomas. Diagn Pathol. 8:121
9. Kim TE, Jung ES, Jung CK, Bae JS, Kim SN, Kim GS, Lee HN, Kang CS, Choi YJ. (2013). DHPLC is a highly sensitive and rapid screening method to detect BRAF(V600E) mutation in papillary thyroid carcinoma. Exp Mol Pathol. 94:203
10. Wang J, Yang H, Shen Y, Wang S, Lin D, Ma L, Han X, Shi Y. (2013). Direct sequencing is a reliable assay with good clinical applicability for KRAS mutation testing in colorectal cancer. Cancer Biomark. 13:89
11. Alexander RE, Lopez-Beltran A, Montironi R, MacLennan GT, Post KM, Bilbo SA, Jones TD, Huang W, Rao Q, Sen JD, Meehan K, Cornwell A, Miravalle L, Cheng L. (2012). KRAS mutation is present in a small subset of primary urinary bladder adenocarcinomas. Histopathology. 61:1036
12. Brait M, Loyo M, Rosenbaum E, Ostrow KL, Markova A, Papagerakis S, Zahurak M, Goodman SM, Zeiger M, Sidransky D, Umbricht CB, Hoque MO. (2012). Correlation

- between BRAF mutation and promoter methylation of TIMP3, RAR $\beta$ 2 and RASSF1A in thyroid cancer. Epigenetics. **7**:710
13. Chakraborty A, Narkar A, Mukhopadhyaya R, Kane S, D'Cruz A, Rajan MG. (2012). BRAF V600E mutation in papillary thyroid carcinoma: significant association with node metastases and extra thyroidal invasion. Endocr Pathol. **23**:83
  14. Davidson CJ, Zerinder E, Champion KJ, Gauthier MP, Wang F, Boonyaratnakornkit J, Jones JR, Schreiber E.(2012). Improving the limit of detection for Sanger sequencing: a comparison of methodologies for KRAS variant detection. Biotechniques. **53**:182
  15. Hong DS, Bowles DW, Falchook GS, Messersmith WA, George GC, O'Bryant CL, Vo AC, Klucher K, Herbst RS, Eckhardt SG, Peterson S, Hausman DF, Kurzrock R, Jimeno A. (2012). A multicenter phase I trial of PX-866, an oral irreversible phosphatidylinositol 3-kinase inhibitor, in patients with advanced solid tumors. Clin Cancer Res. **15**:4173
  16. Lee KC, Li C, Schneider EB, Wang Y, Somervell H, Krafft M, Umbricht CB, Zeiger MA. (2012). Is BRAF mutation associated with lymph node metastasis in patients with papillary thyroid cancer? Surgery. **152**:977
  17. Miravalle L, Lefferts JA, Al-Haddad M, Tsongalis GJ, Cheng L. (2012). KRAS testing in clinical laboratory: optimizing targeted therapy. Cancer Genomics Proteomics. **9**:337
  18. Pang B, Ong CW, Chong ML, Muliana-Ismail T, Soong R, Salto-Tellez M. (2012). KRAS mutation analysis in a complex molecular diagnostic referral practice: the need for test redundancy. Pathology. **44**:655
  19. Shaukat A, Arain M, Anway R, Manaktala S, Pohlman L, Thyagarajan B. (2012). Is KRAS mutation associated with interval colorectal cancers? Dig Dis Sci. **57**:913
  20. Goia-Rușanu CD, Iancu IV, Botezatu A, Socolov D, Huică I, Pleșa A, Anton G. (2011). Mitochondrial DNA mutations in patients with HRHPV-related cervical lesions. Roum Arch Microbiol Immunol. **70**:5
  21. Kulesza P, Ramchandran K, Patel JD. (2011). Emerging concepts in the pathology and molecular biology of advanced non-small cell lung cancer. Am J Clin Pathol. **136**:228
  22. Lin J, Goto Y, Murata H, Sakaizawa K, Uchiyama A, Saida T, Takata M. (2011). Polyclonality of BRAF mutations in primary melanoma and the selection of mutant alleles during progression. Br J Cancer. **104**:464
  23. Schlosshauer PW, Deligdisch L, Penault-Llorca F, Fatemi D, Qiao R, Yao S, Pearl M, Yang Z, Sheng T, Dong J. (2011). Loss of p16INK4A expression in low-grade ovarian serous carcinomas. Int J Gynecol Pathol. **30**:22
  24. Sobin C, Parisi N, Schaub T, Gutierrez M, Ortega AX. (2011).  $\delta$ -Aminolevulinic acid dehydratase single nucleotide polymorphism 2 and peptide

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26. Wiita AP, Schrijver I. (2011). Clinical application of high throughput molecular screening techniques for pharmacogenomics. Pharmgenomics Pers Med. **4**:109
27. Chang DT, Chapman CH, Norton JA, Visser B, Fisher GA, Kunz P, Ford JM, Koong AC, Pai RK. (2010). Expression of p16(INK4A) but not hypoxia markers or poly adenosine diphosphate-ribose polymerase is associated with improved survival in patients with pancreatic adenocarcinoma. Cancer. **116**:5179
28. Gilfillan CP. (2010). Review of the genetics of thyroid tumours: diagnostic and prognostic implications. ANZ J Surg. **80**:33
29. Ollar RA, Cooperman AM, Wayne ME, Barrecchia JF, Sonpal N, Duddempudi S, Kasmin FE. (2010). A colorimetric method for detection of K-ras codon 12 point mutations in DNA extracted from tissue and peripheral blood in pancreatic disorders. Biochem Genet. **48**:577
30. Mekel M, Nucera C, Hodin RA, Parangi S. (2010). Surgical implications of B-RafV600E mutation in fine-needle aspiration of thyroid nodules. Am J Surg. **200**:136
31. Shaukat A, Arain M, Thaygarajan B, Bond JH, Sawhney M. (2010). Is BRAF mutation associated with interval colorectal cancers? Dig Dis Sci. **55**:2352
32. Funami J, Hayashi T, Nomura H, Ding QF, Ishitsuka-Watanabe A, Matsui-Hirai H, Ina K, Zhang J, Yu ZY, Iguchi A. (2009). Clinical factors such as B-type natriuretic peptide link to factor VII, endothelial NO synthase and estrogen receptor alpha polymorphism in elderly women. Life Sci. **85**:316
33. Nasr MR, Mukhopadhyay S, Zhang S, Katzenstein AL. (2009). Absence of the BRAF mutation in HBME1+ and CK19+ atypical cell clusters in Hashimoto thyroiditis: supportive evidence against preneoplastic change. Am J Clin Pathol. **132**:906
34. Sabin C, Gutierrez M, Alterio H. (2009). Polymorphisms of delta-aminolevulinic acid dehydratase (ALAD) and peptide transporter 2(PEPT2) genes in children with low-level lead exposure. Neurotoxicology. **30**:881
35. Xing M, Clark D, Guan H, Ji M, Dackiw A, Carson KA, Kim M, Tufaro A, Ladenson P, Zeiger M, Tufano R. (2009). BRAF mutation testing of thyroid fine-needle aspiration biopsy specimens for preoperative risk stratification in papillary thyroid cancer. J Clin Oncol. **27**:2977

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38. Krishnamurthy S. (2007). Applications of molecular techniques to fine-needle aspiration biopsy. *Cancer.* **111**:106
39. Pizzolanti G, Russo L, Richiusa P, Bronte V, Nuara RB, Rodolico V, Amato MC, Smeraldi L, Sisto PS, Nucera M, Bommarito A, Citarrella R, Lo Coco R, Cabibi D, Lo Coco A, Frasca F, Gulotta G, Latteri MA, Modica G, Galluzzo A, Giordano C. (2007). Fine-needle aspiration molecular analysis for the diagnosis of papillary thyroid carcinoma through BRAF V600E mutation and RET/PTC rearrangement. *Thyroid.* **17**:1109
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