

## DAVID SIDRANSKY

### CURRENT APPOINTMENTS

Professor, Otolaryngology-HNS  
Professor, Oncology  
Professor, Pathology  
Professor, Cellular & Molecular Medicine  
Professor, Urology  
Director, Head and Neck Cancer Research  
Johns Hopkins University School of Medicine  
Johns Hopkins Medical Institutions  
Baltimore, MD 21287

### OFFICE & LABORATORY

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### EDUCATIONAL/PROFESSIONAL EXPERIENCE

1977-1978 Bar-Ilan University, Ramat-Gan, ISRAEL  
1978-1981 B.S., Chemistry, Brandeis University, Waltham, MA, USA; Graduated Magna Cum Laude with Highest Honors  
1981-1984 M.D., Baylor College of Medicine, Houston, TX, USA  
1984-1985 Intern-Internal Medicine, Baylor College of Medicine, Houston, TX, USA  
1985-1987 Resident-Internal Medicine, Baylor College of Medicine, Houston, TX, USA  
1986-1987 Clinical Investigator Program, under the direction of Dr. Thomas Caskey, Institute of Molecular Genetics, Baylor College of Medicine, Houston, TX, USA  
1987-1988 Chief Resident-Internal Medicine, Baylor College of Medicine, Houston, TX, USA  
1988-1989 Senior Clinical Fellow in Oncology, Johns Hopkins Hospital, Baltimore, MD, USA  
1989-1992 Research Fellow in Oncology under the direction of Dr. Bert Vogelstein, Johns Hopkins Oncology Center, Baltimore, MD USA  
1992-1994 Assistant Professor in Oncology, Johns Hopkins Hospital, Johns Hopkins Oncology Center, Baltimore, MD, USA  
1992-1994 Assistant Professor in Otolaryngology - Head and Neck Surgery, The Johns Hopkins University, Baltimore, MD, USA  
1994-1998 Associate Professor in Oncology, Johns Hopkins Hospital, Baltimore, MD, USA  
1994-1998 Associate Professor in Otolaryngology - Head and Neck Surgery, The Johns Hopkins University, Baltimore, MD, USA  
1994-1998 Associate Professor in Cellular and Molecular Medicine, The Johns Hopkins University, Baltimore, MD, USA  
1994-Current Director, Head and Neck Cancer Research Division, The Johns Hopkins University, Baltimore, MD, USA  
1998-Current Professor, Otolaryngology - Head and Neck Surgery, The Johns Hopkins University, Baltimore, MD, USA

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- 1998-Current Professor, Oncology, Johns Hopkins Hospital, Johns Hopkins Oncology Center, Baltimore, MD, USA  
1998-Current Professor, Pathology, Johns Hopkins Hospital, Baltimore, MD, USA  
1998-Current Professor, Cellular and Molecular Medicine, The Johns Hopkins University, Baltimore, MD, USA  
1999-Current Professor, Urology, The Johns Hopkins University, Baltimore, MD, USA

## **HONORS**

- 1989-1991 National Research Service Award  
1992 Young Investigators Merit Award  
1992 Clinician Scientist Award - Johns Hopkins Hospital  
1995 Foundation for the Promotion of Cancer Research Award (Japan)  
1997 Sarstedt International Research Prize (German Society of Clinical Chemistry)  
1998 Cheng Suen Man Shook Foundation Award (Hong Kong Cancer Institute)  
1998 Walter Hubert Award (British Association of Cancer Research)  
1998 The Alton Ochsner Award Relating Smoking and Health (American College of Chest Physicians)  
1999 The International Union Against Cancer Role of Honour  
2001 The Israel Cancer Research Fund AOsserman@ Award  
2004 AACR-Richard and Hinda Rosenthal Foundation Award.

## **MEMBERSHIPS**

- 1990-Current American Association for Cancer Research  
1992-Current American Society for Microbiology  
1992-Current American Association for the Advancement of Science  
1992-Current New York Academy of Sciences

## **SCIENTIFIC ADVISORY BOARDS/CONSULTANT**

- Zila Inc, (phoenix, AZ)  
Amgen (Los Angeles, CA)  
Virco Inc. (Mechelen, Belgium/Rockville, USA)  
Telik, Inc. (San Francisco, CA)  
Cangen (Irvine, CA)  
Response Genetics (New York, NY)  
John Wiley Publishers (New York, NY)  
Pfizer Scholars Program for New Faculty (New York, NY)  
Doris Duke Medical Foundation (North Carolina)  
Flight Attendants Medical Research Foundation (Miami, FL)  
External Advisory Board, UCSD Cancer Center (San Diego, CA)  
External Advisory Board, UT M..D. Anderson Cancer Center (Houston, TX)

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External advisory Board, Fred Hutchinson Cancer Center (Seattle, WA)  
Scientific Advisory Council, Israel Cancer Research Fund  
Medical Advisory Council, Israel Children=s Cancer Foundation

**NATIONAL INSTITUTE OF HEALTH WORKING GROUPS**

1996-Current Member, Developmental Diagnostics, NCI  
1996-Current Member, Cancer Prevention and Control, NCI  
1998-Current Member, Board of Scientific Counselors, NIDCR

**EDITORIAL BOARDS**

Senior Editor (Clinical Cancer Research)  
Associate Editor (Cancer Research, Journal of the National Cancer Institute, Oral Oncology, International Journal of Cancer - Predictive Oncology)

**CERTIFICATIONS**

1988 American Board of Internal Medicine  
1991 American Board of Medical Oncology  
1998 American Society for Head and Neck Surgery

**PATENTS**

<b><i>PATENT NO.</i></b>	<b><i>TITLE</i></b>
1 6,479,234	Detection of hypermutable nucleic acid sequence in tissue and body fluids
2 6,476,206	p40 protein acts as an oncogene
3 6,291,163	Method for detecting cell proliferative disorders
4 6,235,470	Detection of neoplasia by analysis of saliva
5 6,204,374	Cell cycle regulatory gene
6 6,025,127	Nucleic acid mutation detection in histologic tissue
7 5,935,787	Detection of hypermutable nucleic acid sequence in tissue
8 5,908,920	Cell cycle regulatory gene
9 5,856,094	Method of detection of neoplastic cells
10 5,767,258	Cell cycle regulatory gene
11 5,726,019	Analysis of sputum by amplification and detection of mutant nucleic acid sequences
12 5,561,041	Nucleic acid mutation detection by analysis of sputum

ARTICLES PUBLISHED IN PROFESSIONAL JOURNALS

1. Sidransky, D., Von Eschenbach, A., Tsai, Y.C., Jones, P., Summerhayes, I., Marshall, F., Paul, M., Green, P., Hamilton, S.R., Frost, P., Vogelstein, B. *Identification of p53 Gene Mutations in Bladder Cancers and Urine Samples*. Science **252(5006)**:706-709, 1991.
2. Hollstein, M., Sidransky, D., Vogelstein, B., Harris, C. *p53 Mutations in Human Cancer*. Science **253(5015)**:49-53, 1991.
3. Saylor, R.L., Sidransky, D., Friedman, H.S., Bigner, S.H., Bigner, D.D., Vogelstein, B., Brodeur, G. *Infrequent p53 Gene Mutations in Medulloblastoma*. Cancer Research **51(17)**:4721-4723, 1991.
4. Kastan, M.B., Onyekwere, O., Sidransky, D., Vogelstein, B., Craig, R.W. *Participation of p53 Protein in the Cellular Response to DNA Damage*. Cancer Research **51(23 Pt 1)**:6304-6311, 1991.
5. Sidransky, D., Mikkelsen, T., Cavenee, W., Vogelstein, B. *Clonal Expansion of p53 Mutant Cells is Associated with Brain Tumour Progression*. Nature **335(6363)**:846-847, 1992.
6. Bennett, W.P., Hollstein, M.C., Hsu, I.C., Sidransky, D., Lane, D.P., Vogelstein, B., Harris, C.C. *Mutational Spectra and Immunohistochemical Analyses of p53 in Human Cancers*. Chest **101(3 Suppl)**:19S-20S, 1992.
7. Sidransky, D., Frost, P., Von Eschenbach, A., Oyasu, R., Preisinger, A.C., Vogelstein, B. *Clonal Origin of Bladder Cancer*. N Engl J Med **326(11)**:737-740, 1992.
8. Sidransky, D., Tokino, T., Frost, P., Hamilton, S., Levin, B., Vogelstein, B. *Identification of Ras Oncogene Mutations in the Stool of Patients with Curable Colorectal Tumors*. Science **256(5053)**:102-105, 1992.
9. Sidransky, D., Tokino, T., Helzlsouer, K., et. al. *Inherited p53 Gene Mutations in Breast Cancer*. Cancer Research **52(10)**:2984-2986, 1992.
10. Lynch, H.T., Watson, P., Smyrk, T.C., Lanspa, S.J., Boma, B.M., Boland, C.R., Lynch, J.F., Cavalieri, R.J., Leppert, M., White, R. Sidransky, D., Vogelstein, B. *Colon Cancer Genetics*. Cancer **70(S)**:1300-1312, 1992.
11. Celano, P., Berchtold, C.M., Mabry, M., Carroll, M., Sidransky, D., Casero, R.A., Jr., Lupu, R. *Induction of Markers of Normal Differentiation in Human Colon Carcinoma Cells by the v-rasH Oncogene*. Cell Growth Differ **4(4)**:341-347, 1993.
12. Leach, F.S., Tokino, T., Meltzer, P. Burrell, M., Oliner, J.D., Smith, S., Hill, D.E., Sidransky, D., Kinzler, K.W., Vogelstein, B. *p53 Mutation and MDM2 Amplification in Human Soft Tissue Sarcomas*. Cancer Research **53(10 Suppl)**:2231-2234, 1993.
13. Boyle, J.O., Koch, W., Hruban, R.H., van der Reit, P., Sidransky, D. *The Incidence of p53 Mutations Increases with Progression of Head and Neck Cancer*. Cancer Research **53(19)**:4477-4480, 1993.
14. Ruppert, J.M., Tokino, K. Sidransky, D. *Evidence for Two Bladder Cancer Suppressor Loci on Human Chromosome 9*. Cancer Research **53(21)**:5093-5095, 1993.

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15. Tokino, T., Davidson, N., Helzlsouer, K., Zhenbauer, B., Nakamura, Y., Vogelstein, B., Sidransky, D. *Absence of Germline Prohibitin Mutations in Early Onset Breast Cancer*. International Journal of Oncology **3(4)**:769-772, 1993.
16. Gonzalez-Zulueta, M. Ruppert, J.M., Tokino, K., Tsai, Y.C., Spruck, C.H., III, Miyao, N., Nichols, P.W., Hermann, G.G., Horn, T., Steven, K., Summerhayes, I.C., Sidransky, D., Jones, P.W. *Microsatellite Instability in Bladder Cancer*. Cancer Research **53(23)**:5620-5623, 1993.
17. van der Reit, P. Karp, D. Farmer, E. Wei, Q., Grossman, L., Tokino, K. Ruppert, J.M., Sidransky, D. *Progression of Basal Cell Carcinoma Through Loss of Chromosome 9q and Inactivation of a Single p53 Allele*. Cancer Research **54(1)**:25-27, 1994.
18. Merlo, A. Gabrielson, E., Askin, F. A, Sidransky, D. *Frequent Loss of Chromosome 9 in Human Primary Non-Small Cell Lung Cancer*. Cancer Research **54(3)**:640-642, 1994.
19. Mao, L., Sidransky, D. *Tetranucleotide Repeat Polymorphism in RAF1*. Hum Mol Gen **3(3)**:521, 1994.
20. Nawroz, H. van der Reit, P., Hruban, R.H., Koch, W.M., Ruppert, J.M., Sidransky, D. *Allelotype of Head and Neck Squamous Cell Carcinoma*. Cancer Research **54(5)**:1152-1155, 1994.
21. van der Reit, P., Nawroz, H., Hruban, R.H., Corio, R., Tokino, K., Koch, W.M., Sidransky, D. *Frequent Loss of Chromosome 9p21-22 Early in Head and Neck Cancer Progression*. Cancer Research **54(5)**:1156-1158, 1994.
22. Cairns, P., Tokino, K., Eby, Y. Sidransky, D. *Homozygous Deletions of 9p21 in Primary Human Bladder Tumors Detected by Comparative Multiplex Polymerase Chain Reaction*. Cancer Research **54(6)**:1422-1424, 1994.
23. Mao, L., Hruban, R.H., Boyle, J.O., Tockman, M. Sidransky, D. *Detection of Oncogene Mutations in Sputum Precedes Diagnosis of Lung Cancer*. Cancer Research **54(7)**:1634-1637, 1994.
24. Merlo, A., Mabry, M., Gabrielson, E., Vollmer, R., Baylin, S.B., Sidransky, D. *Frequent Microsatellite Instability in Primary Small Cell Lung Cancer*. Cancer Research **54(8)**:2098-2101, 1994.
25. Merlo, A., Gabrielson, E., Mabry, M., Vollmer, R., baylin, S.B., Sidransky, D. *Homozygous Deletion on Chromosome 9p and Loss of Heterozygosity on 9q, 6p, and 6q in Primary Human Small Cell Lung Cancer*. Cancer Research **54(9)**:2322-2326, 1994.
26. Hruban, R.H., van der Reit, P., Erozan, Y.S., Sidransky, D. *Brief Report: Molecular Biology and the Early Detection of Carcinoma of the Bladder - The Case of Hubert H. Humphrey*. N Engl J Med **330(18)**:1276-1278, 1994.
27. Thomas, S., Brennan, J., Martel, G., Frazer, I., Montesano, R., Sidransky, D., Hollstein, M. *Mutations in the Conserved Regions of p53 are Infrequent in Betel-Associated Oral Cancers from Papua New Guinea*. Cancer Research **54(13)**:3588-3593, 1994.

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28. Huang, D.P., Lo, K-W., van Hasselt, C.A., Woo, J.K.S., Choi, P.H.K., Leung, S-F., Cheung, S-T., Cairns, P., Sidransky, D., Lee, J.C.K. *A Region of Homozygous Deletion on Chromosome 9p21-22 in Primary Nasopharyngeal Carcinoma*. *Cancer Research* **54(15)**:4003-4006, 1994.
29. Yoo, g.H., Xu, H-J., Brennan, J.A., Westra, W., Hruban, R.H., Koch, W.M., Benedict, W.F., Sidransky, D. *Infrequent Inactivation of the Retinoblastoma Gene Despite Frequent Loss of Chromosome 13q in Head and Neck Squamous Cell Carcinoma*. *Cancer Res* **54(17)**:4603-4606, 1994.
30. Koch, W.M., Boyle, J.O., Mao, L., Hakim, J., Hruban, R.H., Sidransky, D. *p53 Gene Mutations as Markers of Tumor Spread in Synchronous Oral Cancers*. *Arch Otolaryngol Head Neck Surg* **120(9)**:943-947, 1994.
31. Blaugrund, J.E., Johns, M.M., Jr., Eby, Y.J., Ball, D.W., Baylin, S.B., Hruban, R.H., Sidransky, D. *Ret Proto-Oncogene Mutations in Inherited and Sporadic Medullary Thyroid Cancer*. *Hum Mol Genet* **3(10)**:1895-1897, 1994.
32. Mao, L., Lee, D.J., Tockman, M.S., Erozan, Y.S., Askin, F., Sidransky, D. *Microsatellite Alterations As Clonal Markers in the Detection of Human Cancer*. *Proc Natl Acad Sci (USA)* **91(21)**:9871-9875, 1994.
33. Boyle, J.B., Mao, L., Brennan, J.A., Koch, W.M., Eisele, D.W., Saunders, J.R., Sidransky, D. *Gene Mutations in Saliva as Molecular Markers for Head and Neck Squamous Cell Carcinomas*. *Am J Surg* **168(5)**:429-432, 1994.
34. Koch, W., Sidransky, D. *p53 Mutational Spectra in Elderly Patients*. *Archives of Otolaryngology - Head and Neck Surgery* **120**:943-947, 1994.
35. Schoenberg, M.Cairns, P., Brooks, J.D., Marshall, F.F., Epstein, J.I., Isaacs, W.B., Sidransky, D. *Frequent Loss of Chromosome Arms 8p and 13q in Collecting Duct Carcinoma (CDC) of the Kidney*. *Genes Chromosomes Cancer* **12(1)**:76-80, 1995.
36. Bedi, G.C., Westra, W.H., Farzadegan, H., Pitha, P.M., Sidransky, D. *Microsatellite Instability in Primary Neoplasms from HIV+ Patients*. *Nat Med* **1(1)**:65-68, 1995.
37. Cairns, P., Tokino, K., Eby, Y., Sidransky, D. *Localization of Tumor Suppressor Loci on Chromosome 9 in Primary Human Renal Cell Carcinomas*. *Cancer Research* **55(2)**:224-227, 1995.
38. Brennan, J.A., Mao, L., Hruban, R.H., Boyle, J.O., Eby, Y.J., Koch, W.M., Goodman, S.N., Sidransky, D. *Molecular Assessment of Histopathologic Staging in Squamous-Cell Carcinoma of the Head and Neck*. *N Engl J Med* **332(7)**:429-435, 1995.
39. Koch, W.M., Patel, H., Brennan, J., Boyle, J.O., Sidransky, D. *Squamous Cell Carcinoma of the Head and Neck in the Elderly*. *Arch Otolaryngol Head Neck Surg* **121(3)**:262-265, 1995.
40. Rabkin, C.S., Bedi, G., Musaba, E., Sunkutu, R., Mwansa, N., Sidransky, D., Biggar, R.J. *Aids-related Kaposi=s Sarcoma is a Clonal Neoplasm*. *Clin Cancer Res* **1(3)**:257-260, 1995.

**SIDRANSKY, David, M.D.**

41. Brennan, J.A., Boyle, J.O., Koch, W.M., Goodman, S.N., Hruban, R.H., Eby, Y.J., Couch, M.J., Forastiere, A.A., Sidransky, D. *Association Between Cigarette Smoking and Mutation of the p53 Gene in Squamous-Cell Carcinoma of the Head and Neck*. N Engl J Med **332(11)**:712-717, 1995.
42. Merlo, A., Herman, J.G., Mao, L., Lee, D.J., Gabrielson, E., Burger, P.C., Baylin, S.B., Sidransky, D. *5' CpG Island Methylation is Associated with Transcriptional Silencing of the Tumour Suppressor p16/CDKN2/MTS1 in Human Cancers*. Nat Med **1(7)**:686-692, 1995.
43. Mao, L., Merlo, A., Bedi, G., Shapiro, G.L., Edwards, C.D., Rollins, B.J., Sidransky, D. *A Novel p16<sup>INK4A</sup> Transcript*. Cancer Research **55(14)**:2995-2997, 1995.
44. Chang, W.Y-H., Cairns, P., Schoenberg, M.P., Polasick, T.J., Sidransky, D. *Novel Suppressor Loci on Chromosome 14q in Primary Bladder Cancer*. Cancer Research **55(15)**:3246-3249, 1995.
45. Bedi, A., Barber, J.P., Bedi, G.C., El-Deiry, W.S., Sidransky, D., Vala, M.S., Hilton, J., Akhtar, A.J., Jones, R.J. *BCR-ABL-Mediated Inhibition of Apoptosis with Delay of G<sub>2</sub>/M Transition After DNA Damage: A Mechanism of Resistance to Multiple Anticancer Agents*. Blood **86(3)**:1148-1158, 1995.
46. Herman, J.G., Merlo, A., Mao, L., Lapidus, R.G., Issa, J-P.J., Davidson, N.E., Sidransky, D. Baylin, S.B. *Inactivation of the CDKN2/p16/MTS1 Gene is Frequently Associated with Aberrant DNA Methylation in All Common Human Cancers*. Cancer Research **55(20)**:4525-4530, 1995.
47. Rosin, M.P., Cairns, P., Epstein, J.I., Schoenberg, M.P., Sidransky, D. *Partial Allelotype of Carcinoma in situ of the Human Bladder*. Cancer Research **55(22)**:5213-5216, 1995.
48. Polasick, T.J., Cairns, P., Chang, W.Y-H., Schoenberg, M.P., Sidransky, D. *Distinct Regions of Allelic Loss on Human Chromosome 4 in Primary Bladder Carcinoma*. Cancer Res **55(22)**:5396-5399, 1995.
49. Shapiro, G.I., Park, J.E., Edwards, C.D., Mao, L., Merlo, A., Sidransky, D., Ewen, M.E., Rollins, B.J. *Multiple Mechanisms of p16<sup>INK4A</sup> Inactivation in Non-Small Cell Lung Cancer Cell Lines*. Cancer Research **55(24)**:6200-6209, 1995.
50. Cairns, P., Polasick, T.J., Eby, Y., Tokino, K., Califano, J., Merlo, A., Mao, L., Herath, J., Jenkins, R., Westra, W., Rutter, J.L., Buckler, A., Gabrielson, E., Tockman, M., Cho, K.R., Hedrick, L., Bova, G.S., Issacs, W., Schwab, D., Sidransky, D. *Frequency of Homozygous Deletion at p16/CDKN2 in Primary Human Tumors*. Nature Genetics **11(2)**:210-212, 1995.
51. Gartenhaus, R., Johns, M.M., III, Wang, P., Rai, K., Sidransky, D. *Mutator Phenotype in a Subset of Chronic Lymphocytic Leukemia*. Blood **87(1)**:38-41, 1996.
52. Mao, L., Schoenberg, M.P., Scicchitano, M., Erozan, Y.S., Merlo, A., Schwab, D., Sidransky, D. *Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis*. Science **271(5249)**:659-662, 1996.

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53. Schoenberg, M., Kiemeny, L., Walsh, P.C., Griffin, C.A., Sidransky, D. *Germline Translocation t(5-20)(p15-q11) and Familial Transitional Cell Carcinoma*. J Urol **155(3)**:1035-1036, 1996.
54. Johns, M., III, Westra, W.H., Califano, J.A., Eisele, D., Koch, W.M., Sidransky, D. *Allelotype of Salivary Gland Tumors*. Cancer Res **56(5)**:1151-1154, 1996.
55. Fuji, H., Marsh, C., Cairns, P., Sidransky, D. Gabrielson, E. *Genetic Divergence in the Clonal Evolution of Breast Cancer*. Cancer Res **56(7)**:1493-1497, 1996.
56. Polasick, T.J., Cairns, P., Epstein, J.I., Fuzesi, L., Ro, J.Y., Marshall, F.F., Sidransky, D. *Distal Nephron Renal Tumors: Microsatellite Allelotype*. Cancer Res **56(8)**:1892-1895, 1996.
57. Bedi, G.C., Westra, W.H., Gabrielson, E., Koch, W., Sidransky, D. *Multiple Head and Neck Tumors: Evidence for a Common Clonal Origin*. Cancer Res **56(11)**:2484-2487, 1996.
58. Califano, J., van der Reit, P., Westra, W., Nawroz, H., Clayman, G., Piantadosi, S., Corio, R., Lee, D., Greenberg, B., Koch, W. Sidransky, D. *Genetic Progression Model for Head and Neck Cancer: Implications for Field Cancerization*. Cancer Res **56(11)**:2488-2492, 1996.
59. Schutte, M., Hruban, R.H., Hedrick, L., Cho, K.R., Nadasdy, G.M., Weinstein, C.L., Bova, G.S., Isaacs, W.B., Cairns, P., Nawroz, H., Sidransky, D. Casero, R.A., Jr., Meltzer, P.S., Hahn, S.A., Kern, S.E *DPC4 Gene in Various Tumor Types*. Cancer Res **56(11)**:2527-2530, 1996.
60. Reed, A., Califano, J., Cairns, P., Westra, W.H., Jones, R., Koch, W., Ahrendt, S., Eby, Y., Swell, D., Nawroz, H., Bartek, J., Sidransky, D. *High Frequency of p16 (CDKN2/MTS-1/INK4A) Inactivation in Head and Neck Squamous Cell Carcinoma*. Cancer Res **56(16)**:3630-3633, 1996.
61. Nawroz, H., Koch, W., Anker, P., Stroun, M., Sidransky, D. *Microsatellite Alterations in Serum DNA of Head and Neck Cancer Patients*. Nat Med **2(9)**:1035-1037, 1996.
62. Liggett, W.H., Jr., Sewell, D.A., Rocco, J., Ahrendt, S.A., Koch, W., Sidransky, D. *p16 and p16 $\beta$  are Potent Growth Suppressors of Head and Neck Squamous Carcinoma Cells In Vitro*. Cancer Res **56(18)**:4119-4123, 1996.
63. Yao, S-L., Akhtar, A.J., McKenna, K.A., Bedi, G.C., Sidransky, D., Mabry, M., Ravi, R., Collector, M.I., Jones, R.J., Sharkis, S.J., Fuchs, E.J., Bedi, A. *Selective Radiosensitization of p53-Deficient Cells by Caffeine-Mediated Activation of p34<sup>cdc2</sup> Kinase*. Nat Med **2(10)**:1140-1143, 1996.
64. Steiner, G., Cairns, P., Polascik, T.J., Marshall, F.F., Epstein, J.I., Sidransky, D. Schoenberg, M.P. *High-Density Mapping on Chromosomal Arm 1q in Renal Collecting Duct Carcinoma: Region of Minimal Deletion at 1q32.1-32.2*. Cancer Res **56(21)**:5044-5046, 1996.



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65. Moskaluk, C.A., Heitmiller, R., Zahurak, M., Schwab, D., Sidransky, D., Hamilton, S.R. *p53 and p21(WAF1/CIP1/SDI1) Gene Products in Barrett Esophagus and Adenocarcinoma of the Esophagus and Esophagogastric Junction*. Human Pathol **27(11)**:1211-1220, 1996.
66. Rosin, M.P., Miller, S.J., Schwab, D., Westra, W.H., Sidransky, D. *Molecular Analysis of Effectiveness of Moh=s Surgical Technique*. Lancet **347(9016)**:1692-1693, 1996.
67. Koch, W.M., Brennan, J.A., Zahurak, M., Goodman, S.N., Westra, W.H., Schwab, D., Yoo, G.H., Lee, D.J., Forastiere, A., Sidransky, D. *p53 Mutation and Locoregional Treatment Failure in Head and Neck Squamous Cell Carcinoma*. J Natl Cancer Inst **88(21)**:1580-1586, 1996.
68. Califano, J.A., Ahrendt, S., Meininger, G., Koch, W., Westra, W.H., Sidransky, D. *Detection of Telomerase Activity in Oral Rinses from Head and Neck Squamous Cell Cancer Patients*. Cancer Res **56(24)**:5720-5722, 1996.
69. Califano, J.A., Johns, M.M., III, Westra, W.H., Lango, M., Eisele, D., Saji, M., Zeiger, M.A., Udelsman, R., Koch, W.M., Sidransky, D. *An Allelotype of Papillary Thyroid Cancer*. Int J Cancer **69(6)**:442-444, 1996.
70. Mao, L., Schoenberg, M.P., Scicchitano, M., Erozan, Y.S., Merlo, A., Schwab, D., Sidransky, D. *Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis*. Science **271**:659-662, 1996.
71. Wiest, J.S., Franklin, W.A., Drabkin, H., Gemmill, R., Sidransky, D., Anderson, M.W. *Genetic Markers for Early Detection of Lung Cancer and Outcome Measures for Response to Chemoprevention*. J Cell Biochem **Supp. 28-29**:64-73, 1997.
72. Wiest, J.S., Franklin, W.A., Otsot, J.T., Forbey, K., Varella-Garcia, M., Rao, K., Drabkin, H., Gemmill, R., Ahrendt, S., Sidransky, D., Saccomanno, G., Fountain, J.W., Anderson, M.W. *Identification of a Novel Region of Homozygous Deletion on Chromosome 9p in Squamous Cell Carcinoma of the Lung: The Location of a Putative Tumor Suppressor Gene*. Cancer Res **57(1)**:1-6, 1997.
73. Lee, D.J., Koch, W.M., Yoo, G., Lango, M., Reed, A., Califano, J., Brennan, J.A., Westra, W.H., Zahurak, M., Sidransky, D. *Impact of Chromosome 14q Loss on Survival in Primary Head and Neck Squamous Cell Carcinoma*. Clin Cancer Res **3(4)**:501-505, 1997.
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