

## CURRICULUM VITAE

Name: S. Perwez Hussain, Ph.D.

Date: September 6, 2007

Date and Place of Birth: July 2, 1960; Patna, India

Citizenship: United States of America

Marital Status: Married to Zarina Hussain, M.D.

### Education:

- 1980 B.S. Honors, Zoology, Magadh University, Patna, India
- 1983 M.S. First Class, Zoology, Patna University, Patna, India
- 1991 Ph.D., Cancer Biology, Jawaharlal Nehru University, New Delhi, India

### Brief Chronology of Employment and Training:

- 1988 International Course on Cancer Epidemiology, All Union Cancer Research Centre, Moscow, Organized by IARC, Lyon, France
- 1988 Experimental Workshop on Molecular Biology of Human Papillomavirus and Cervical Cancer, New Delhi, India
- 1990 Training in Relevant Molecular Biological Procedures in Human Papilloma Virus and Cervical Cancer Research, German Cancer Research Center, Heidelberg, Germany with Dr. Harald zur Hausen
- 1991-1993 Post-doctoral Fellow, Swiss Institute for Experimental Cancer Research, Lausanne, Switzerland
- 1994-1996 Visiting Fellow, Laboratory of Human Carcinogenesis, Division of Cancer Etiology, National Cancer Institute, National Institute Health, Bethesda, MD
- 1997-1998 Clinical Instructor, Department of Pathology, University of Maryland School of Medicine, Baltimore, MD
- 1999-2000 Research Fellow, Laboratory of Human Carcinogenesis, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 2000-Pres. Staff Scientist, Laboratory of Human Carcinogenesis, CCR, National Cancer Institute, National Institutes of Health, Bethesda, MD

### Societies:

Association of UICC (International Union Against Cancer) Fellows, Geneva, Switzerland  
Active Member, American Association for Cancer Research, USA

Honors, Distinguished Lectures and Other Special Scientific Recognition:

National Merit Scholarship, India, 1980-1982  
 Research Fellowship, awarded by University Grants Commission, India, 1986-1991  
 International Cancer Research Technology Transfer Award (ICRETT), International Union Against Cancer (UICC), Geneva, Switzerland, 1990  
 Fogarty Fellowship, National Institute of Health, Bethesda, MD, 1994-1996  
 Invited Speaker, National Institute of Occupational Health, Oslo, Norway, 1998  
 Invited Speaker, 41<sup>st</sup> Conference of Great Lakes Research, McMaster University, Hamilton, Canada, 1998  
 Invited Speaker, International Conference on “Non small cell lung cancer: Standards and new trends in diagnosis and therapy”, Bialystok, Poland, 2001  
 Invited Speaker, IARC Workshop, Lyon, France, 2001  
 Invited Speaker, International Workshop on Molecular Pathogenesis of Human Hepatocellular Carcinoma, National Institute of Health, Bethesda, MD, 2002  
 Invited Speaker, IARC Workshop, Lyon, France, 2003  
 Invited Speaker, 3<sup>rd</sup> International Conference on the Biology, Chemistry and Therapeutic Applications of Nitric Oxide, Nara, Japan, 2004  
 Invited Speaker, Satellite workshop on “Detection and Consequences of p53 mutations, Kuopio, Finland, 2004  
 Invited Speaker, 10<sup>th</sup> International Congress of Toxicology (ICTX), Tampere, Finland, 2004  
 Invited Speaker, 1<sup>st</sup> International Conference on Nitric Oxide and Cancer, Paris, France, 2007

Research Interest:

Inflammation and cancer with special reference to cancer-prone chronic inflammatory disease.

Training of Fellows from Other Research Programs:

Ms. Lisa Melewski, 1997-1998, graduate student, University of Maryland School of Medicine, Baltimore, MD  
 Mr. Kamran Raja, 1996-1999, NIH Pre-CRTA Fellows program  
 Mr. Mark Sawyer, 1999-2000, NIH Pre-CRTA Fellows program  
 Mr. Matthew Moake, 2002, UGSP, NIH  
 Mr. Irfan Shaikh, 2004, NIH Pre-CRTA Fellows program  
 Mr. Lorenzo Nichols, 2004, UGSP, NIH  
 Mr. Jonathan Schwank, 2005, Summer Training Program  
 Mr. Mark Bernard, 2005-2007, Post-Baccalaureate IRTA Program

Other Supporting Activities at NCI:

Serving the steering committee of Redox Biology Faculty, CCR, NCI  
 Presenting annual courses on Inflammation and Cancer organized for NCI fellows  
 Serving as Assistant Project Officer on NCI-University of Maryland Resource Contract  
 Participated in the CCR steering committee meeting on Inflammation and Cancer  
 Reviewer of the “National Graduate Student Research Festival Review Process” of NCI

Reviewer for the following Scientific Journals:

American Journal of Respiratory Cell and Molecular Biology  
Cancer Research  
Cancer Genetics and Cytogenetics  
Carcinogenesis  
Hepatology  
International Journal of Cancer

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## BIBLIOGRAPHY

S. PERWEZ HUSSAIN, Ph.D.

### Articles in Peer Reviewed Journals

1. Rao, A. R. and **Hussain, S. P.**: Modulation of methylcholanthrene-induced carcinogenesis in the uterine cervix of mouse by indomethacin. Cancer Lett. 43: 15-19, 1988.
2. Rao, A. R., **Hussain, S. P.** and Jannu, L. N.: Modulation of 7, 12-dimethylbenz [a]anthracene-induced transmammary carcinogenesis by disulfiram and butylated hydroxyanisole in mice. Jap. J. Cancer Res. 80: 1171-1175, 1989.
3. **Hussain, S. P.**, Jannu, L. N. and Rao, A. R.: Chemopreventive action of garlic on methylcholanthrene-induced carcinogenesis in the uterine cervix of mouse. Cancer Lett. 49: 175-180, 1990.
4. Rao, A. R., **Hussain, S. P.**, Jannu, L. N., Kumari, M. V. and Aradhana: Modulatory influence of tamoxifen, tochopherol, retinyle-acetate, aminogluthithemide, ergocryptine and selenium on DMBA-induced initiation of mammary carcinogenesis in rats. Indian J. Exp. Biol. 28: 409-416, 1990.
5. Rao, A. R. N., Rao, A. R., Jannu, L. N. and **Hussain, S. P.**: Chemoprevention of 7,12-dimethylbenz[a]anthracene-induced mammary carcinogenesis in rat by the combined actions of selenium, magnesium, ascorbic acid and retinyle acetate. Jap. J. Cancer Res. 81: 1239-1246, 1990.
6. **Hussain, S. P.** and Rao, A. R.: Chemopreventive action of mace (Myristica fragrance, Houtt) on methylcholanthrene-induced carcinogenesis in the uterine cervix in mice. Cancer Lett. 56: 231-234, 1991.
7. Jannu, L. N., **Hussain, S. P.** and Rao, A. R.: Chemopreventive action of mace (Myristica fragrans, Houtt) on DMBA-induced papillomagenesis in the skin of mice. Cancer Lett. 56: 59-63, 1991.
8. **Hussain, S. P.**, Chhabra, S. K. and Rao, A. R.: Effects of oral contraceptive pills on drug-metabolizing enzymes and acid soluble sulfhydryl level in mouse liver. Biochem. Int. 25: 973-984, 1991.
9. **Hussain, S. P.** and Rao, A. R.: Modulatory influence of injectable contraceptive steroid medroxyprogesterone acetate on methylcholanthrene-induced carcinogenesis in the uterine cervix of mouse. Cancer Lett. 61: 187-193, 1992.

10. **Hussain, S. P.** and Rao, A. R.: Modulatory influence of oral contraceptive pills Ovral and Noracycline on 3-methylcholanthrene-induced carcinogenesis in the uterine cervix of mouse. Jap. J. Cancer Res., 83: 576-583, 1992.
11. **Hussain, S. P.** and Rao, A. R.: Chemopreventive action of selenium on methylcholanthrene-induced carcinogenesis in the uterine cervix of mouse. Oncology 49: 237-240, 1992.
12. Aguilar, F., **Hussain, S. P.** and Cerutti, P.: Aflatoxin B1 induces the transversion of G to T in codon 249 of the human p53 tumor suppressor gene in human hepatocytes. Proc. Natl. Acad. Sci. USA 90: 8586-8590, 1993.
13. **Hussain, S. P.**, Aguilar, F. and Cerutti, P.: Mutagenesis of codon 248 of the human p53 tumor suppressor gene by N-ethyl-N-nitrosourea. Oncogene 9: 13-18, 1994.
14. **Hussain, S. P.**, Aguilar, F., Amstad, P. and Cerutti, P.: Oxy-radical induced mutagenesis of hot-spot codons 248 and 249 of the human p53 gene. Oncogene 9: 2277-2281, 1994.
15. Amstad, P., **Hussain, S. P.** and Cerutti, P.: Ultraviolet B light induced mutagenesis of p53 hot-spot codons 248 and 249 in human skin fibroblasts. Mol. Carcinogenesis 10: 181-188, 1994.
16. Okamoto, A., Demetrick, D. J., Spillare, E. A., Hagiwara, K., **Hussain, S. P.**, Bennett, W. P., Forrester, K., Gerwin, B., Serrano, M., Beach, D. H. and Harris, C. C.: Mutations and altered expression of p16<sup>INK4</sup> in human cancer. Proc. Natl. Acad. Sci. USA 91: 11045-11049, 1994.
17. Okamoto, A., **Hussain, S. P.**, Hagiwara, K., Spillare, E. A., Rusin, M. R., Demetrick, D. J., Serrano, M., Hannon, G. J., Shiseki, M., Zariwala, M., Xiong, Y., Beach, D. H., Yokota, J. and Harris, C. C.: Mutations in the p16<sup>INK4/MTS1/CDKN2</sup>, p15<sup>INK4B/MTS2</sup>, and p18 genes in primary and metastatic lung cancer. Cancer Research, 55: 1448-1451, 1995.
18. Rusin, M. R., Okamoto, A., Chorazy, M., Czyzewski, K., Marasim, J., Spillare, E. A., Hagiwara, K., **Hussain, S. P.** and Harris, C. C.: Intragenic mutations of the p16<sup>INK4</sup>, p15<sup>INK4B</sup> and the p18 genes in primary non-small-cell lung cancers. Int. J. Cancer 65: 734-739, 1996.
19. Gemma, A., Takenoshita, S., Hagiwara, K., Okamoto, A., Spillare, E. A., McMenamin, M. G., **Hussain, S. P.**, Forrester, K., Zariwala, M., Xiong, Y. and Harris, C. C.: Molecular analysis of the cyclin-dependent kinase inhibitor genes p15<sup>INK4b/MTS2</sup>, p16<sup>INK4/MTS1</sup>, p18 and p19 in human cancer cell lines. Int. J. Cancer, 68: 605-611, 1996.

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21. Ambs, S., Merriam, W. G., Ogunfusika, M. O., Bennett, W. P., Ishibe, N., **Hussain, S. P.**, Tzeng, E. E., Geller, D. A., Billiar, T. R. and Harris, C. C.: p53 vascular endothelial growth factor regulate tumor growth of NOS2-expressing human carcinoma cells. Nature Med. 4: 1371-1376, 1998.
22. Ambs, S., Bennett, W. P., Ogunfusika, M. O., Oser, S. M., Shields, P. G., Felly-Bosco, E., **Hussain, S. P.** and Harris, C. C.: Characteristic p53 mutations correlate with inducible nitric oxide synthase expression in human colorectal cancer. JNCI 91: 86-88, 1999
23. **Hussain, S. P.**, Amstad, P., Raja, K., Ambs, S., Nagashima, M., Bennett, W., Shields, P. G., Ham, A., Swenberg, J., Marrogi, A. J. and Harris, C. C.: Increased p53 mutation load in noncancerous colon tissue from ulcerative colitis: A cancer-prone chronic inflammatory disease. Cancer Research, 60: 3333-3337, 2000.
24. **Hussain, S. P.**, Raja, K., Amstad, P., Sawyer, M., Trudel, L., Wogan, G., Hofseth, L., Shields, P. G., Billiar, T., Trautwein, C., Hohler, T., Galle, P., Phillips, D., Markin, R., Marrogi, A. and Harris, C. C.: Increased p53 mutation load in nontumorous human liver of Wilson disease and hemochromatosis: oxyradical overload disease. Proc. Natl. Acad. Sci. USA 97: 12770-12775, 2000.
25. Zhou X, Epsey, M., Chen J., Hofseth, L., Miranda, K., **Hussain, S. P.**, Wink, D. and Harris, C. C.: Inhibitory effects of nitric oxide and nitrosative stress on dopamine-beta-hydroxylase. J. Biol. Chem. 275: 21241-21246, 2000.
26. **Hussain, S. P.**, Amstad, P., Raja, K., Sawyer, M., Hofseth, L., Shields, P. G., Hower, A., Phillips, D. H., Ryberg, D., Haugen, A. and Harris, C. C.: Mutability of p53 hotspots codons to Benzo(a)pyrene Diol Eposide (BPDE) and the frequency of p53 mutations in nontumorous human lung. Cancer Research, 61: 6350-6355, 2001.
27. Marrogi, A. J., Khan, M. A., van Gijssel, H. E., Welsh, J. A., Rahim, H., Demetris, A. J., Kowdley, K. V., **Hussain, S. P.**, Nair, J., Bartsch, H., Okby, N., Poirier, M. C., Ishak, K. G. and Harris, C. C.: Oxidative Stress and p53 Mutations in the Carcinogenesis of Iron Overload-Associated Hepatocellular Carcinoma. J. Natl. Cancer Inst. 93: 1652-1655, 2001.
28. Hofseth, L. J., Saito, S., **Hussain, S. P.**, Espey, M. G., Miranda, K. M., Araki, Y., Jhappan C, Higashimoto, Y., He, P., Linke, S. P., Quezado, M. M., Zurer, I., Rotter, V., Wink, D. A., Appella, E. and Harris, C. C.: Nitric oxide-induced cellular stress and p53 activation in chronic inflammation. Proc. Natl. Acad. Sci. USA 100(1): 143-148, 2003.

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32. **Hussain, S. P.**, Amstad, P., He, H., Robles, A., Lupold, S., Kaneko, I., Ichimiya, M., Sengupta, S., Mechanic, L., Okamura, S., Hofseth, L. J., Moake, M., Nagashima, M., Forrester, K. S. and Harris, C. C.: p53-induced upregulation of MnSOD and GPx, but not Catalase increases oxidative stress and apoptosis. Cancer Research, 64: 2350-2356, 2004.
33. **Hussain, S. P.**, Trivers, G. E., Hofseth, L. J., He, P., Shaikh, I., Mechanic, L., Doja, S., Jiang, W., Subleski, J., Shorts, L., Haines, D., Laubach, V. E., Wiltout, R. H., Djurickovic, D. and Harris, C. C.: Nitric Oxide, a Mediator of Inflammation, Suppresses Tumorigenesis. Cancer Research, 64: 6849-6853, 2004.
34. Staib, F., Robles, A.I., Varticovski, L., Wang, X.W., Zeeberg, B.R., Sirotin, M., Zhurkin, V.B., Hofseth, L.J., **Hussain, S. P.**, Weinstein, J.N., Galle, P.R. and Harris, C.C.: The p53 tumor suppressor network is a key responder to microenvironmental components of chronic inflammatory stress. Cancer Research, 65: 10255-10264, 2005.
35. Ying, L., Marino, J., **Hussain, S.P.**, Khan, M.A., You, S., Hofseth, A.B., Trivers, G.E., Dixon, D.A., Harris, C.C. and Hofseth, L.J.: Chronic inflammation promotes retinoblastoma protein hyperphosphorylation and E2F1 activation. Cancer Research, 65: 9132-9136, 2005.
36. Du, Q., Park, K. S., Guo, Z., He, P., Nagashima, M., Shao, L., Rohit Sahai, Geller, D.A and **Hussain, S.P.**: Regulation of human NOS2 expression by Wnt- $\beta$ -catenin signaling. Cancer Research, 66: 7024-7031, 2006.
37. Hagiwara, N., Mechanic, L.E., Trivers, G.E., Cawley, H.L., Taga, M., Bowman, E.D., Kumamoto, K., He, P., Bernard, M., Doja, S., Miyashita, M., Tajiri, T., Sasajima, K., Nomura, T., Makino, H., Takahashi, K., **Hussain, S.P** and Harris, C.C.: Quantitative detection of p53 mutations in plasma DNA from tobacco smokers. Cancer Research, 66: 8309-8317, 2006.

Review articles in peer-reviewed journals:

1. Cerutti, P., **Hussain, P.**, Pourzand, C. and Aguilar, F.: Mutagenesis of the H-ras protooncogene and the p53 tumor suppressor gene. Cancer Research (Suppl), 54: 1934-1938, 1994.
2. Ambs, S., **Hussain, S. P.** and Harris, C. C.: Interactive effects of nitric oxide and the p53 tumor suppressor gene in carcinogenesis and tumor progression. FASEB J., 11: 443-448, 1997.
3. **Hussain, S. P.** and Harris, C. C.: Molecular epidemiology of Human Cancer: contribution of mutation spectra studies of tumor suppressor genes. Cancer Research, 58: 4023-4037, 1998.
4. **Hussain, S. P.** and Harris, C. C.: Molecular epidemiology of human cancer. Toxicology Lett., 102-103, 219-225, 1998.
5. Bennett, W. P., **Hussain, S. P.**, Vahakangas, K., Khan, M., Shields, P. G. and Harris, C. C.: Molecular epidemiology of human cancer risk: Gene-environment interactions and p53 mutation spectrum in human lung cancer. J. Pathol., 187: 8-18, 1999.
6. **Hussain, S. P.** and Harris, C. C.: p53 mutation spectrum and load: the generation of hypothesis linking the exposure of endogenous or exogenous carcinogens to human cancer. Mutation Res., 428: 23-32, 1999.
7. Ambs, S., **Hussain, S. P.**, Marrogi, A. J. and Harris C. C.: Cancer-prone oxyradical overload disease. IARC Sci. Publ.150: 295-302, 1999.
8. **Hussain, S. P.** and Harris, C. C.: Molecular epidemiology and carcinogenesis: endogenous and exogenous carcinogens. Mutation Res., 462: 311-322, 2000.
9. **Hussain, S. P.**, Hollstein, M. and Harris, C. C.: p53 Tumor Suppressor Gene, at the cross road of molecular carcinogenesis, Molecular epidemiology, and human risk assessment. Ann. NY Acad. Sci., 919: 79-85, 2000.
10. **Hussain, S. P.**, Hofseth, L. J. and Harris, C. C.: Tumor suppressor genes: at the crossroads of molecular carcinogenesis, molecular epidemiology and human risk assessment. Lung Cancer, 34 Suppl 2: S7-S15, 2001.
11. Wang, X. W., **Hussain, S. P.**, Huo, T. I, Wu, C. G., Forgues, M., Hofseth, L. J., Brechot, C., Harris, C. C.: Molecular pathogenesis of human hepatocellular carcinoma. Toxicology, 181-182: 43-47, 2002.



12. Staib, F., **Hussain, S. P.**, Hofseth, L. J., Wang, X. W. and Harris C. C.: TP53 and Liver Carcinogenesis. Human Mutation, 21: 201-216, 2003.
13. Hofseth, L. J., **Hussain, S. P.**, Wogan, G. N. and Harris, C. C.: Nitric oxide in cancer and chemoprevention. Free Rad. Biol. and Med., 34: 955-968, 2003.
14. **Hussain, S. P.**, Hofseth, L. J. and Harris, C. C.: Radical causes of cancer. Nature Reviews: Cancer, 3: 276-285, 2003.
15. Hofseth, L. J., Robles, A. I., Yang, Q., Wang, X. W., **Hussain, S. P.** and Harris, C. C.: p53: At the crossroads of molecular carcinogenesis and molecular epidemiology. Chest, 125: 83S-85S, 2004.
16. Hofseth, L.J., **Hussain, S.P.** and Harris, C.C: p53: 25 years after its discovery. Trends in Pharmacol. Sci., 25, 177-181, 2004.
17. Goodman, J. E., Hofseth, L. E., **Hussain, S. P.** and Harris, C. C.: Nitric Oxide and p53 in Cancer-Prone Chronic Inflammation and Oxyradical Overload Disease. Journal of Environmental and Molecular Mutagenesis, 44: 3-9, 2004.
18. **Hussain, S.P** and Harris, C.C.: p53 biological network: at the crossroads of the cellular-stress response pathway and molecular carcinogenesis. J. Nippon Med. sch., 73, 54-56, 2006.
19. **Hussain, S.P.**, Schwank, J., Staib, F., Wang, X.W and Harris, C.C.: TP53 mutation and hepatocellular carcinoma: insights into the etiology and pathogenesis of liver cancer. Oncogene, 26, 2166-2176, 2007.
20. **Hussain, S.P** and Harris, C.C: Inflammation and cancer: an ancient link with novel potential. Int. J. Cancer, 121, 2373-2380, 2007.

#### Chapters in Books

1. Okamoto, A., Demetrick, D. J., Spillare, E. A., Hagiwara, K., **Hussain, S. P.**, Bennett, W. P., Forrester, K., Gerwin, B., Greenblatt, M. S., Serrano, M., Shiseki, M., Yokota, J., Beach, D. H. and Harris, C. C.: p16<sup>INK4</sup> mutations and altered expression in human tumors and cell lines. In Molecular Genetics of Cancer-Symposium 59. Cold Spring Harbor Laboratory Press, New York, 1994, pp. 49-57.
2. **Hussain, S. P.** and Harris, C. C.: p53 Tumor suppressor gene: at the crossroads of molecular carcinogenesis and molecular epidemiology of human cancer. In Rom, W. R. (Eds.): Environmental and Occupational Medicine. 3rd ed., Lippincott-Raven Publ., Philadelphia, 1998, pp. 167-176.

3. **Hussain, S. P.** and Harris, C. C.: Molecular epidemiology of human cancer. In Schwab, M., Rabes, H., Munk, K., Hofschneider, P. H. (Eds.): Recent Results in Cancer Research: Genes and Environment in Cancer. Springer-Verlag, Berlin, Vol 154, 1998, pp. 22-36.
4. **Hussain, S. P.**, Ambs, S. and Harris, C. C.: Cancer-prone oxyradical overload disease. In Berger, H. G. and Link, K. H. (Eds.): 2<sup>nd</sup> International Congress on Gastroenterological Carcinogenesis. Monduzzi Editore, Bologna, 1999, pp. 9-20.
5. **Hussain, S. P.** and Harris, C. C.: p53 Mutation load: A molecular linkage to carcinogen exposure and cancer. In Butterworth, F., Gunatilake, A. and Bonaparte, M. E. (Eds.): Biomonitoring and Biomarkers as Indicator of Environmental Change, Volume 2. Plenum Publishing Corp., New York, 2000, pp. 333-346.
6. **Hussain, S. P.**, Hofseth, L., Shields, P. G. and Harris, C. C.: Gene-Environmental Interactions in Human Cancer Risk. In Lung, M. L. and Hsiao, W. L. W. (Eds.): Molecular and Genetic Basis of Cancer. Hong Kong University of Science and Technology, Hong Kong, 2001, pp. 294-308.
7. Hofseth, L. J., **Hussain, S. P.**, Wang, X. W. and Harris, C. C.: Hepatocellular cancer: Molecular biology and genetics. In Kelsen, D. P., Daly, J., Kern, S. E., Levin, B. and Tepper, J. E. (Eds.): Gastrointestinal Oncology: Principles and Practice. Philadelphia, Lippincott Williams & Wilkins. 2002, pp. 539-558.
8. Hofseth, L. J., Sawa, T., **Hussain, S. P.** and Harris, C. C.: Inducible nitric oxide synthases as a target for chemoprevention. In: Kelloff, G. L., Hawk, E. T. and Sigman, C. C. (Eds), Invited manuscript for a published series called Cancer Drug Discovery and Development. Philadelphia, Lippincott Williams & Wilkins. 2002, pp. 539-558.
9. **Hussain, S.P** and Harris, C.C.: Tp53 tumor suppressor gene: At the cross roads of the cellular stress response path way and molecular carcinogenesis. In: William N. Rom (Editor): Environmental and Occupational Medicine, 4<sup>th</sup> Edition. Lippincott Williams and Wilkins. 2006, pp. 99-106

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