

Curriculum Vitae
Dr. Mariappan Vairapandi

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Nationality: American.
Birth Place: Virudhunagar, India.
Marital Status: Married

Education And Training:

<i>Institution</i>	<i>Degree</i>	<i>Year</i>	<i>Field of Study</i>
M.K. University,. Madurai, India	B.Sc	1977-'80	Zoology
M.K. University,. Madurai, India	M.Sc	1981-'83	Immunology
M.K. University,. Madurai, India	PhD	1990	Biochemistry

Post Doctoral Experience:

1990 *Post Doctoral Fellow* Dept. Of Oncology, Children's Hospital of Philadelphia,
(Dr.C.D.Scher's Laboratory)
1991-94 *Research Associate,* Dept. of Pathology, Temple University, Philadelphia.
(Dr.N.J.Duker's Laboratory)

Professional Experience:

1995 *Assistant Scientist* Fels Institute for Cancer Research and Molecular Biology,
Temple University, Philadelphia.
1996-2000 *Associate Scientist* Fels Institute for Cancer Research and Molecular Biology,
Temple University, Philadelphia.
Since 2001 *Assistant Professor* Fels Institute for Cancer Research and Molecular Biology,
Temple University, Philadelphia.

HONOURS and AWARDS:

1980: Gold Medallist V.H.N.S.N College,. Virudhunagar, India
1984: Passed National Educational Test University Grants Commission,
New Delhi, India..
1987: Travel Grant to attend "EMBO Intensive Lecturing Course" at Pavia-Italy
C.S.I.R New Delhi, India..
2001-'02: Consultant Onconova Therapeutics Inc. Princeton, New Jersey

CONFERENCES AND LECTURING COURSES ATTENDED

1. AACR Special conference on "Molecular Mechanisms of Apoptosis Regulation" 9-13th January 1998, Palm Springs, California.
2. Experimental Biology '93, New Orleans, Louisiana, March 28th to April 1st, 1993.

3. EMBO "Intensive Lecturing course on "Trans Membrane Signaling" held at Pavia, Italy, 7_19th September 1987.
4. International Symposium on Biochemistry: Structure, Biogenesis and Transport. Madurai, India, 1985.

Professional Membership:-

DNA Methylation Society since 1993.

PUBLICATIONS:

Peer Reviewed Articles:

1. **Vairapandi M.**, Azam.N., Balliet A J., Hoffman B. and Liebermann D.A. (2003) GADD45b and GADD45g in cdc2/cyclinB1 kinase inhibition and JNK mediated apoptosis with a role in S and G2/M cell cycle checkpoints induced by genotoxic stress. (Manuscript in preparation) .
2. **Vairapandi M.**, (2003) DNA Viral Antigen mediated transformation results in altered DNA demethylase activity that displays lack of PCNA association and differential DNA Target for action. (Manuscript in preparation)
3. **Vairapandi M.**, (2003) Characterization of DNA Demethylation in Normal and Cancerous cell lines and the Regulatory role of Cell Cycle proteins in human DNA Demethylase Activity: *J.Cell.Biochem* (in press.)
4. **Vairapandi M.**, Balliet A J., Hoffman B. and Liebermann D.A. (2002) GADD45b and GADD45g are cdc2/cyclinB1 kinase inhibitors with a role in S and G2/M cell cycle checkpoints induced by genotoxic stress. *J Cell Physiol.* 192 (3):327-38.
5. Azam.N., **Vairapandi M.**, Zhang.W., Hoffman.B., and Liebermann.D A. (2001) Interaction of CR6 (GADD45 γ) with Proliferating Cell Nuclear Antigen (PCNA) impedes negative growth control. *J Biol Chem.* 276(4):2766-2774.
6. **Vairapandi M.**, Liebermann D.A., Hoffman B., and Duker N.J. (2000). Human DNA demethylating activity: A glycosylase associated with RNA and PCNA. *J.Cell.Biochem.* 79(2):249-260.
7. **Vairapandi M.**, Naiyer Azam., Balliet A J., Hoffman B. and Liebermann D.A. (2000). Characterization of MyD118, Gadd45 and PCNA interacting domains: PCNA impedes MyD118 and Gadd45 mediated negative growth control. *J.Biol.Chem.* 275, (22): 16810-16819.
8. **Vairapandi M.** and Nahum J. Duker. 1996. Partial purification and characterization of Human 5methylcytosine-DNA glycosylase. *Oncogene*, 13,933-938.
9. **Vairapandi M.**, Balliet A J., Fornace Jr A.J., Hoffman B. and Liebermann D.A. 1996. The differentiation primary response gene MyD118, related to GaDD45, encodes for a nuclear protein which interacts with PCNA and p21WAF1/CIP1. *Oncogene*, 12,2579-2594 .
10. N.krishanmachary, T. Landau, J.Sperling, **Vairapandi M.** and Nahum J. Duker. 1995. Synthesis and properties of DNA purine dehydromers: 8-8-bideoxyribonucleosides and 8- 8-bideoxyribonucleodides. *Redox Report* 1, 151-158.

11. **Vairapandi M.** and Nahum J. Duker. 1994. Excision of Ultra-Violet induced photoproducts of 5-methylcytosine from DNA. *Mut..Res.*, 315(2):85-94.

12. **Vairapandi M.** and Nahum J. Duker. 1993. Enzymic removal of 5-methylcytosine from DNA by a human DNA glycosylase. *Nuclei.Aci.Res.*, 21,(23): 5323-27.

Review Articles:

1. **Vairapandi M.** and Nahum J. Duker. 1995. Post methylational events and fate of 5methylcytosine on DNA. *Biochemistry, (Life Science Advances)*, 14,1-7.

2. Jayaraman J., Shivakumar K., Hariharan T., and **Vairapandi M.** 1985. Assembly of Mitochondria. *Curr.Sci.*, 54, (8):369-75.

Meeting Abstracts:

1. Liebermann.D A. Zhang W, Balliet A., Azam N., **Vairapandi M.**, Hoffman B. (2000) MyD118/Gadd45/CR6 (GADD45beta, alpha, gamma) in blood cell homeostasis. *Blood, 96 (11) part-2, 4329.*

2. Thakur A., Gold B., **Vairapandi M.**, Duker NJ., Paraskeva C., Yunis JJ. 1995. Effects of Folic Acid deficiency on excision of 5-methyl cytosine from DNA *FASEB Journal 9 (3); part-1 139.*

3. **Vairapandi M.**, and Jayaraman J. 1988. Mitochondriogenesis in yeast., studies on mitochondrial RNA. *Yeast 4:* 241

4. **Vairapandi M.**, and Jayaraman J. 1985. Mitochondrial biogenesis in Yeast., Studies on in vitro Mitochondrial transcription. In the proceedings of International symposium on Biomembranes: Structure, Biogenesis and Transport., Madurai, India..

Pending Grants:

Principal Investigator

Dr. Vairapandi
Mariappan

Title
Human DNA Demethylase in
G1/G2 Exit & Cancer
Development

Agency
National Institute
of General
Medical Sciences

(NIH)
Assignment #
1 RO1
CA107849-01

List of References for Dr.M.Vairapandi:

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3. Dr. Dan A Liebermann Ph.D

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4. Dr. Barbara Hoffman, Ph.D.

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