



## CURRICULUM VITAE

### **Rajeev Vibhakar, MD, PhD, MPH**

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#### **EDUCATION**

<i>Year</i>	<i>Degree/Institution</i>
1988-91	BA with Honors (Chemistry & Biology), Macalester College, St. Paul, MN
1991-99	MD/PhD (Pathology), MPH (Epidemiology), New York Medical College, Valhalla, NY
1999-02	Resident in Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA
2002-05	Fellow, Pediatric Hematology/Oncology, University of Iowa Hospitals and Clinics, Iowa City, IA

#### **AWARDS AND HONORS**

<i>Year</i>	<i>Award / Honor</i>
1991	Honors in Biology, Macalester College, St. Paul, MN
1991	American Cyanamid Biology Award, Macalester College, St. Paul, MN
1995	Lady Tata Memorial International Fellowship for Graduate Students. Pre-doctoral award for research in Hematologic malignancies
1996	1 <sup>st</sup> place, Annual Medical Student Research Forum, New York Medical College, Valhalla, NY
2002	Most outstanding Third Year Resident, Division of General Pediatrics Award, University of Iowa Hospitals and Clinics, Iowa City, IA

#### **TEACHING ACTIVITIES**

<i>Year</i>	<i>Teaching Activity</i>
2002-03	Third year medical student lecture on Anemia given every 6-12 weeks. I designed the current slide presentation used for teaching 3 <sup>rd</sup> year medical students.
2002-03	Third year medical student lectures on Coagulation and Immunodeficiencies given to students rotating through the Pediatric Hematology/Oncology Inpatient Service

#### **RESEARCH INTERESTS**

<i>Year</i>	<i>Project</i>
2003--	<i>"Developmental regulation of medulloblastoma pathogenesis"</i> , Department of Physiology & Biophysics, and Division of Pediatric Hematology/Oncology, University of Iowa, Iowa City, IA. <i>Two projects currently in progress. One investigates the role of the Notch receptor pathway in medulloblastoma proliferation. The second examines the role of the N-myc oncogene in medulloblastoma and potential gene therapy approaches for down regulating its expression.</i>

- 2001-- “Gene expression profiling in primitive neuroectodermal tumors”, Division of Pediatric Hematology/Oncology, University of Iowa Hospitals and Clinics, Iowa City, IA. *Using microarray technology we are investigating the expression of developmentally regulated genes in medulloblastoma.*
- 2001 (July-November) “Medulloblastoma mediated neural progenitor cell chemotaxis”, Department of Physiology & Biophysics, University of Iowa, Iowa City, IA. *Project established the importance of the chemokine SDF-1 as a key mediator of tumor cell induced progenitor cell chemotaxis.*
- 1997-99 “Prognostic factors in Pediatrics ALL patients at Westchester Medical Center”, MPH thesis research, Departments of Epidemiology and Pediatrics, New York Medical College, Valhalla, NY. *Performed multivariate logistic regression analysis on various prognostic factors.*
- 1993-97 “Expression of the Human Programmed Death Gene in lymphocytes”, PhD thesis research. Departments of Pathology and Medicine, New York Medical College, Valhalla, NY.
- 1989-91 “Uncombable Hair Syndrome”, Biology Honors thesis, Macalester College, St. Paul, MN,

## PUBLICATIONS

1. **Vibhakar R**, Juan G, Traganos F, Darzynkiewicz A, Finger LR. Activation induced expression of human programmed death-1 gene in T-lymphocytes. *Exp Cell Res* 323:25-28, 1997
2. Finger LR, Pu J, Wasserman R, **Vibhakar R**, Louie E, Hardy RR, Burrows PD, Billips LG. The human PD-1 gene: complete cDNA genomic organization, and developmentally regulated expression in B cell progenitors. *GENE* 197:177-187, 1997.
3. Goldman FD, **Vibhakar R**, Puck JM, Straus SE, Ballas ZK, Hollenback C, Loew T, Thompson A, Song K, Cook RT. Aberrant T-cell antigen receptor-mediated responses in autoimmune lymphoproliferative syndrome. *Clin Immunol* 104(1):31-39, 2002.
4. **Vibhakar R**, Hughes SM, Davidson BL. Stromal cell derived factor 1 mediates medulloblastoma induced neural progenitor cell chemotaxis. In Preparation 2004.
5. **Vibhakar R**, Rummelhart S, Tatman D, Radhi M, Goldman F. Successful unrelated umbilical cord blood transplantation for Shawchman-Diamond syndrome. In Preparation 2004.

## ABSTRACTS

1. **Vibhakar R**, Finger LR. Expression of hPD-1 in SupT-1 T-cell lymphoma cells. Annual MD/PhD Student Conference, Aspen, CO, 1995.
2. **Vibhakar R**, Finger LR. Activation induced expression of hPD-1 in human lymphocytes. Annual Conference of the American Academy of Immunology, New Orleans, 1996.
3. **Vibhakar R**, Hughes SM, Davidson BL. Stromal cell derived factor 1 mediates medulloblastoma induced neural progenitor cell chemotaxis. AACR Annual Meeting, San Francisco, 2002.

## INVITED TALKS

- Vibhakar R.** *The neurobiology of ATM.* Banbury Center, Cold Spring Harbor Laboratory, October 1999.
- Vibhakar R.** *CNS Targeting.* RNAi Workshop, NCI / NIH, Bethesda, MD, October 2004

## INSTITUTIONAL CONFERENCES

- Primitive neuroectodermal tumors; the great tentorial divide. Annual senior resident lecture, 2001. A review of current diagnostic and therapeutic approaches to PNET in pediatrics.
- Antifungal therapy in high-risk pediatric patients. Division of Pediatric Heme/Onc, UIHC, May 2003. A discussion of the current literature with regards to new antifungal agents in Pediatric Bone Marrow Transplant patients.
- Targeting N-myc for medulloblastoma gene therapy. Gene Transfer Research Group seminar, March 2004. Presentation of research to interdisciplinary gene therapy group.

## GRANT SUPPORT

<i>Year</i>	<i>Award</i>
1995	Lady Tata Memorial International Fellowship for Graduate Students, United Kingdom. Pre-doctoral fellowship for research in hematologic malignancies.
2001	Children's Miracle Network Research Grant. For investigation of developmentally regulated gene expression in medulloblastoma.
2001	American Academy of Pediatrics Resident Research Grant. For a pilot project investigating developmentally regulated gene expression in medulloblastoma.
2003	National Children's Cancer Foundation/Scott Carter Foundation Fellowship Grant. For investigation of the role of the Notch 2-receptor pathway in medulloblastoma.

## PATENT

*"Isolation of nucleic acids by halogenated nucleotide labeling"*. Gloria Juan, Rajeev Vibhakar, Frank Traganos and Zibigniew Darzynkiewicz, 2002.

## SERVICE

<i>Year</i>	<i>Committee / Service</i>
1999-01	Resident Education Committee
1993-94	Vice President, local chapter, American Medical Student Association
1989-90	Vice President, Student Government, Macalester College