

## Syed Hussain Askree

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### Education

**Ph.D.**            **University of Georgia, Athens GA**  
**Genetics, 2005**

**M.D.** (Pakistan) **University of the Punjab, Pakistan**  
**M.B.B.S. (Bachelor of Medicine & Bachelor of Surgery), 1999**

### Professional Experience

2006 - date    **Post-doctoral Research Fellow**

**Center for Nutrition and Metabolism, Bruce Ames Laboratory**

Children's Hospital Oakland Research Institute, Oakland CA &

Department of Biochemistry and Molecular Biology, University of California, Berkeley

- ♦ Designed and conducted hypothesis-driven experiments, compiled and analyzed data, and prepared manuscript for publishing. Research projects included:
  - Investigating cellular consequences of vitamin B6 deficiency in cultured mammalian cells: premature senescence, cell cycle defect and DNA damage
  - Developing a yeast model to study polymorphisms at human pyridoxal kinase locus
- ♦ Designed and supervised laboratory research projects addressing micronutrient deficiency for undergraduate volunteers and summer interns
- ♦ Reviewed, analyzed, collated and presented scientific information pertaining to several relevant topics in a biweekly seminar and journal club series at the Center for Nutrition and Metabolism
- ♦ Served as board member for SPAC (Staff and Clinical Scientist and Postdoctoral Fellow Association at CHORI), managing and participating in SPAC seminar series, representing SPAC in faculty meetings and organizing CHORI Symposium in May 2008
- ♦ Assisted Professor Bruce Ames in grant writing and paper reviews, serving as an information resource for scientific literature on DNA damage from micronutrient deficiencies and population studies on relevant genetic polymorphisms

2000 - 2005    **Graduate Research Assistant**

**Department of Genetics, Michael McEachern Laboratory**

University of Georgia, Athens GA

- ♦ Designed and conducted hypothesis-driven experiments, compiled and analyzed data and published dissertation  
Dissertation Title: Identification and characterization of novel genes affecting telomere length in *Saccharomyces cerevisiae*: Role of vitamin B6 in telomere length maintenance
- ♦ Upon own initiative, prepared and delivered special guest lectures to the undergraduate students of Introductory Genetics; topics included Nucleic Acids and DNA metabolism, Chromosome theory of Inheritance, Linkage, Recombination and Mapping
- ♦ Served as a Teaching Assistant for over 150 students of Introductory Genetics Course, holding help-sessions and office hours, grading tests and maintaining records
- ♦ Served as Genetics Graduate Student Representative, managing and participating in student seminar series, arranging student-invited speakers, representing students in faculty meetings and organizing recruitment week for new graduate students
- ♦ Applied for grants and financial aid. Received university-wide assistantship from Graduate school, University of Georgia, 2000 – 2002
- ♦ Trained and supervised more than 10 graduate rotation students, undergraduate volunteers and lab helpers in laboratory work, both in experimental research and general management

1994 -1999 **Medical Student**

**University of the Punjab, Pakistan**

Rawalpindi Medical College, Holy Family & Rawalpindi General Hospitals

- ◆ Qualified all professional examinations in first attempts, graduating with a First Division
- ◆ Prepared and delivered special guest lectures to the faculty and students of Community Medicine and to the students of Behavioral Sciences and faculty of Department of Psychiatry
- ◆ Served as a team leader for the Polio Eradication Program, vaccinating school attending children in designated districts of Rawalpindi, Punjab
- ◆ Served as a clinical rotation student, learning in-patient and out-patient management, including history taking, clinical examination, basic treatment management and assisting outpatient procedures in the Departments of Medicine, Surgery, Psychiatry, Dermatology, Radiology, Ophthalmology, ENT, Obstetrics and Gynecology

**Publications**

**A genome-wide screen for *Saccharomyces cerevisiae* deletion mutants that affect telomere length**

*Askree SH, Yehuda T, Smolikov S, Gurevich R, Hawk J, Coker C, Krauskopf A, Kupiec M, McEachern MJ.* Proceedings to the National Academy of Sciences. USA. 101(23): 8658-63, June 2004

Related Commentary: **A genome-wide telomere screen in yeast: the long and short of it all**

*Edmonds D, Breitkreutz BJ, Harrington L.* Proceedings to the National Academy of Sciences. USA. 101(26):9515-6, June 2004

**Genetic Dissection of vitamin B6 salvage pathway in *Saccharomyces cerevisiae***

*Askree SH, Waters J, McEachern MJ.* To be submitted

**Short telomeres and cell cycle defect in vitamin B6 salvage mutants in *Saccharomyces cerevisiae***

*Askree SH, Hawk J, McEachern MJ.* To be submitted

**Consequences of vitamin B6 deficiency in cultured human cells: premature senescence, cell cycle defect and DNA damage**

*Askree SH, Vu C, Ames B.* To be submitted

**Optimizing micronutrient intake to requirements of individuals**

Review. *Askree SH, Ames B.* To be submitted

**Scientific Meetings & Courses**

Jun 2008 **Dietary Supplement Research Practicum**, Office of Dietary Supplements, NIH Bethesda MD

May 2008 **Day of Science Workshop, Council for Responsible Nutrition**, Washington DC

Nov 2004 **Role of Telomeres and Telomerase in Cancer, Annual American Association for Cancer Research Meeting**, San Francisco CA

- ◆ Received Scholar-in-Training Award

Oct 2004 **Bruce Ames International Symposium on Nutritional Genomics & Nutrigenomics: Discovering the Path to Personalized Nutrition Course**, Davis CA

- ◆ Received Best Student Presentation Award

Jul 2004 **Yeast Genetics and Molecular Biology Meeting**, Seattle WA

Jul 2003 **XIX international Congress of Genetics**, Melbourne Australia

Mar 2003 **Telomeres and Telomerase Meeting**, Cold Spring Harbor NY

**References**

Bruce Ames, Ph.D. email: bames@chori.org phone: 510-450-7625 Additional references available upon request