

## **Curriculum Vitae**

### **Dr. SABA ABDI**

Assistant Professor, Department of Biochemistry

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### **PERSONAL DATA**

Date of Birth : 31/1/1972

Place of Birth: Lucknow , India

Nationality : Indian

Sex : Female

Languages : English, Hindi

### **EDUCATION**

Ph.D in Biochemistry (2000) , Aligarh Muslim University ,India.

Specialization in Nucleic Acid Immunology

Dissertation: Studies on Free Radical Modified Human DNA

M.Sc in Biotechnology(1995), Aligarh Muslim University, India.

Specializations in Proteomics

Thesis: Isolation and characterization of Hen Egg White Lysozyme

B.Sc in Chemistry (1993), Aligarh Muslim University, India,

## TEACHING EXPERIENCE:

2006 to date: *Assistant Professor, Biochemistry*, King Saud University, Saudi Arabia  
Course: Various biochemistry courses at Graduate and Post Graduate level (enzymology, molecular biology, endocrinology, biochemistry of specialized tissue, biomembrane, biochemistry of fluids, biomolecules, Immunology, Molecular genetics and metabolism).

2005-2006: *Assistant Professor*, Prince Sultan University, Saudi Arabia.  
Course : General Chemistry

## RESEARCH EXPERIENCE:

During the course of my PhD work I gained experience in nucleic acid immunology. I am conversant with the **techniques** involved in **immunology** such as the ELISA, Immune-blotting, dot-blotting, immune-fluorescence, immuno-precipitation, Counter immune electrophoresis, immunodiffusion, band shift assay, gel retardation assay, ion exchange chromatography and affinity chromatography.

I am also well acquainted with basic **molecular biology techniques** such as isolation of mammalian DNA, bacterial DNA and plasmid. Characterization of various nucleic acids using techniques such as Agarose gel electrophoresis, PAGE, alkaline sucrose density gradient ultracentrifugation, PCR, RT-PCR.

## Supervision of Research Projects:

### Completed Projects:

- 1- NPST, KSU funded project titled "Association of gene polymorphisms in the PTH, RANKL and calcium metabolism pathways in Saudi subjects with osteoporosis" (completed in June, 2017)
- 2- Screening for biochemical markers of bone turnover in postmenopausal osteoporotic Saudi subjects (MSc students research project, completed in June, 2017)
- 3- Association study of Single Nucleotide Polymorphism of RANK, RANKL and OPG genes in postmenopausal Osteoporotic Saudi Subjects (MSc students research project, completed in June, 2017)
- 4- Effect of vitamin D binding protein polymorphisms and vitamin D supplementation on serum vitamin D concentration in Saudi T2DM subjects (MSc students research project, Completed in June, 2017)
- 5- Vitamin D receptor and Calcium sensing receptor gene polymorphisms in postmenopausal Saudi women (MSc students research project, Completed in June 2016)

- 6- Polymorphisms in BRCA1 & TP53 Genes and Ovarian Cancer Risk in Saudi Females( KAUST funded Msc research project MSc students, Completed in June 2015)
- 7- Association Study of Single Nucleotide Polymorphism of PTH Gene in Osteoporosis Among Saudi Population ( MSc students research project, Completed in June 2012)
- 8- A Study on the role of Map Kinases in progression of asthma in murine model.(Msc research project , completed in June 2012)

## PUBLICATIONS:

1. Al-Suwailem E, **Abdi S**, El-Ansary A. Sex differences in the glutamate signaling pathway in juvenile rats. J Neuro Res. 2017;00:1–8. <https://doi.org/10.1002/jnr.24144>  
(Impact Factor: 2.481)
2. M. Aslam, Moinuddin, **S. Abdi**, S. Siddique & A. Ali (2002).“Effect of radio/chemotherapy on the level of anti-ROS- DNA antibodies in cancer patients”. J Clin. Radiotherapy oncology. 2, 17-22.
3. H. Ahsan, **S. Abdi** & A. Ali.“ Recognition of DNA Arginine photoadduct by Anti-DNA Auto antibodies in systemic lupus erythematosus”. Indian J. Med. Res., May 2002, pp.201-211
4. **S. Abdi**, H. Ahsan & A. Ali (2000). “Studies on antibodies against reactive oxygen species modified human Placental DNA”. J. Biochem, Mol. Biol. & Biophys., Vol. 4, pp.433-443
5. **S. Abdi**, A. Ali. “Role of ROS modified human DNA in the Pathogenesis and Etiology of Cancer”. Cancer Letter 142 (1999) 1-9

## PRESENTATIONS IN CONFERENCES:

- Nasser Al-Daghri, Maryam Rikli, **Saba Abdi**, Abdul Khader Mohammed, Majed S.Alokail (2017) Common Genetic Variants in Vitamin D protein (DBP) Gene Modify the Response to Vitamin D Supplementation.

First prize in the category of oral presentations at The Fifth Annual Clinical Congress of the Gulf Chapter of the American Association of Clinical Endocrinologists, as presented by Shaun Louie Sabico (October, 2017)

- **Saba Abdi**, Ranya Alhaj Dawod, Abdul Khader Mohammed, Majed S.Alokail and Nasser M. Al-Daghri (2015) Association of Gene variants in the Vitamin d Receptor and calcium Sensing Receptor Gene in Postmenopausal Saudi Women with Osteoporosis

Poster presentation at The 18<sup>th</sup> Workshop on Vitamin D, Delft, Netherlands(April, 2015)

- **Saba Abdi** (2009) “Monoclonal Antibodies Against Tumor specific antigens in breast cancer”

Abstract accepted for poster presentation at the 24<sup>th</sup>meeting of Saudi Biological Society, at Taibah University, Madina Al Munawwarah , Saudi Arabia

- **Saba Abdi** and Asif ali (1997)“Antigenicity of Free Radical Modified Human Placental DNA and its Role in Cancer”

Abstract accepted for oral presentation at International Symposium on Free Radicals in Medicine and Biology, RNT Medical College, Udaipur, India

- **Saba Abdi** and Asif Ali (1997) “Studies on Antibodies against Reactive Oxygen Species Modified Human Placental DNA”

Abstract accepted for poster presentation of Society of Biological chemists (India) 1997 Annual Meeting.

- **Saba Abdi** and Asif Ali (1998) “Detection of Oxidative lesions in DNA Isolated from Lymphocytes of Cancer Patients”

Abstract accepted for poster presentation at Society of Biological chemist (India) 1998 Annual Meeting.

**GRANTS AND FELLOWSHIPS:**

- Merit Scholarship during Masters programme at interdisciplinary Biotechnology Unit, A.M.U. Aligarh.
- Qualified GATE-96 conducted by University Grant Commission (UGC), Government of India, New Delhi.
- Research assistant fellowship by a DBT sponsored project entitled “ Monoclonal antibodies against DNA modified by Reactive Oxygen species: Molecular Probes for aging and cancer”.
- Senior Research Fellowship by an ICMR sponsored project entitled “ A Systematic Study on the photo-conjugation between amino acids and nucleic acids and their possible role in the pathogenesis of SLE”.