

**Dr. Abeer Al- Dbass**  
**Curriculum Vitae**

**(A) Personal information**

NAME: Dr. Abeer Mohammad Al-Dbass.

NATIONALITY: Saudi

RELIGION: Islam

PRESENT STATUS: Associate professor of Biochemistry  
College of Science,  
King Saud University,  
Department of Biochemistry  
Riyadh, Saudi Arabia.

**(B) Academic Qualifications**

1. **B.Sc.** 1993  
King Saud University,  
Department of Biochemistry  
Riyadh, Saudi Arabia.
2. **Ph.D.** 2001  
Department of Biochemistry and molecular biology,  
University of Southampton, medical collage, united kingdom

**Title of Thesis**

Structural basis of acute intermittent porphyria and the relationship between mutations in human Porphobilinogen Deaminase and enzyme activity

### **(C) Employment history**

**1. Laboratory specialist      1995-1996**

King Khalid University Hospital

**2. Laboratory technician      1996-1997**

King Saud University –Biochemistry Department.

### **(D) Administrative Responsibilities**

1. Assistant Vice Dean for Academic Affairs(Female Section)  
College of Medicine, Sciences and Medical Studies, King Saud  
University, Riyadh, Saudi Arabia 2016 – to date
2. Vice Head (Wakila), Department of Biochemistry (Female Section)  
College of Medicine, Sciences and Medical Studies, Department for  
Women students, King Saud University, Riyadh, Saudi Arabia 2003 - 2007

### **(E) Professional Affiliation**

1. Member of the Committee of Academic Plans and Programs,  
Faculty of Science. College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia. 2016-To date
2. Member of the Academic Programs Unit, Faculty of Science.  
College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia. 2016-To date

3. Coordinator of the best students in the Faculty of Science  
program Tala and excellence. College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia. 9 \11\2015-To date
4. Member of the Graduate Studies and Scientific Research Unit  
at the Faculty of Science College of Science,  
Sciences & Medical Studies Department for Women Students  
, King Saud University, Riyadh, Saudi Arabia 2015-To date
5. Member of the committee of study plans and courses  
in the Department of Biochemistry, College of Science,  
Sciences & Medical Studies Department for Women Students  
King Saud University, Riyadh, Saudi Arabia. 2016-To date
6. Member, Teaching load Committee  
Department of Biochemistry, College of Science,  
Sciences & Medical Studies Department for Women Students, 2007 – 2008  
King Saud University, Riyadh, Saudi Arabia 2014 – 2015
7. Member, Committee of recruitments and promotions  
Department of Biochemistry, College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia 2014 – 2015
8. Member, Students Advisor Committee  
Department of Biochemistry, College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia 2013 – 2015

9. Student Advisor, Department of Biochemistry, College of Science, Sciences and Medical Studies Department for Women Students, King Saud University, Riyadh, Saudi Arabia 2012- To date
10. Member, Laboratory Committee,  
Department of Biochemistry, College of Science, 2003 - 2007  
Sciences & Medical Studies Department for Women Students, 2012 - 2013  
King Saud University, Riyadh, Kingdom of Saudi Arabia 2015
11. Member, Higher education, and science research committee,  
Department of Biochemistry, College of Science,  
King Saud University, Riyadh, Kingdom of Saudi Arabia 2010 – 2012
12. Coordinator, postgraduate committee,  
Department of Biochemistry, College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Kingdom of Saudi Arabia 2009 –2016
13. Member, Examination committee, College of Science,  
Sciences & Medical Studies Department for Women Students,  
King Saud University, Riyadh, Saudi Arabia 2005 – 2007

#### **(F) Training Course**

1. Presentational skills and oral communication, in Southampton University, 1998.
2. The world of work, in Southampton University, 2000.
3. Presentational skills, in Presentational Skills Center, Riyadh, Saudi Arabia, 2003.
4. Workshop in static analysis using SPSS system.

### **(G) Safety Training Course**

1. Radiation, Southampton University, Southampton, UK, 1998.
1. Genetic manipulation/ biohazards, Southampton university, Southampton, UK 1999.

### **(H) Conferences/Symposia Attended**

1. Geoffrey Taylor Postgraduate Symposium, School of Biological Sciences, Boldrewood, Southampton University, Southampton, United Kingdom, 2001.
2. Geoffrey Taylor Postgraduate Symposium, School of Biological Sciences, Boldrewood, Southampton University, Southampton, United Kingdom, 2000.
3. Geoffrey Taylor Postgraduate Symposium, School of Biological Sciences, Boldrewood, Southampton University, Southampton, United Kingdom, 1999.
4. Tetrapyrrol Discussion Group Meeting, London, 1999.
5. Geoffrey Taylor Postgraduate Symposium, School of Biological Sciences, Boldrewood, Southampton University, Southampton, United Kingdom, 1998

**(I) ABSTRACTS PRESENTED AT CONFERENCES /SYMPOSIA/  
WORKSHOPS**

- 1- Certificate Program - eLearning Pioneers Online Teaching Certificate, e-learning Pioneers, Instructional Excellence Track, October 2015.
- 2- The 21st Annual Online Learning Consortium International Conference 2015 program. Orlando, Florida on October 14-16, 2015.
- 3- Quality Matters (QM) Using Instructional Materials and Technology to Promote Learner Engagement (ST4/5/6), August 4, 2015
- 4- Elearning Pioneers Principles In Practice Practicum, Instructional Track, University of California, Irvine, University Extension 27 July - 6 August \ 2015.
- 5- Workshop on the “Quadruple analysis of the current status of the female university campus SWOT” at the University of King Saud”, Deanship of Graduate Studies, Kingdom of Saudi Arabia on 24\4\2014.
- 6- Workshop for “The updated rules regulating the overall exam to graduate students” at the University of King Saud”, Deanship of Graduate Studies, Kingdom of Saudi Arabia on 26\2\2014.
- 7- The essentials of Academic leadership workshops by Dr. Jacquelyn D. Elliott in King Saud University, Kingdom of Saudi Arabia on 22-28 January 2014.
- 8- Workshop on “Inventory constraints faced by increasing the number of graduate students and proposed solutions”. By the Deanship of Graduate Studies, at the King Saud University”, Kingdom of Saudi Arabia, on 27\11\2013.

- 9- Arbitration in Olympic National Science Innovation, Ministry of education, King Abdul-Aziz and his companions foundation for Giftedness and Creativity, in schools of Islamic education on 16\2\2012.
- 10- “Current status and future vision for Graduate Studies at the university of King Saud”, Kingdom of Saudi Arabia, on 06\06\2010.
- 11- Workshop on the “The analysis Quartet (SWOT) of the Strategic Plan, at the University of King Saud”, Kingdom of Saudi Arabia, on 8\5\2010.
- 12- **Al-Dbass, A.M.**, (2004). The Molecular Basic of Acute Intermittent Porphyria. The 9<sup>th</sup> symposium on genetics in health and disease implication for the individual’s family and community college of medicine and King Khalid university hospital, Riyadh, Saudi Arabia.
- 13- **Al-Dbass, A.M.**, (2003). The main principles for writing curriculum vitae. The Scientific Workshop. Center for Science and Medical Studies for Girls, King Saud University, Riyadh, Saudi Arabia.
- 14- **Al-Dbass, A.M.**, (2000). X-Ray structure of human Porphobilinogen Deaminase at 2.7Å Resolution; the Molecular Basic of Acute Intermittent Porphyria. Geoffrey Taylor Postgraduate Symposium, Boldrewood, Southampton University, Southampton, United Kingdom.
- 15- **Al-Dbass, A.M.**, Mosley, J., Sarwar, M., Mohammed, F., Cooper, J., Gill, R., Thompson, D., Wood, SP. and Shoolingin – Jordan, P.M. (1999). X-Ray structure and properties of human Porphobilinogen Deaminase mutations (R167Q) causing acute intermittent Porphyria and investigation with two other Arginine mutant proteins (R173Q) and (R149Q). Geoffrey Taylor Postgraduate Symposium, Boldrewood, Southampton University, Southampton, United Kingdom.

- 16- **Al-Dbass, A.M.**, (1998). Human Porphobilinogen Deaminase mutations in the investigation of the mechanism of dipyrromethane cofactor assembly and tetrapyrrol formation. School of biological science, Boldrewood, Southampton University, Southampton, United Kingdom.

#### **(J) Research Publications**

1. Al-Daihan S., Shafi Bhat R., **Al Dbass A**, Al-Ayadhi L., El-Ansary\* A. (2017). Elimination of high-refined-sugar diet as treatment strategy for autistic features induced in a rodent model. *Tropical Journal of Pharmaceutical Research*; 16 (7): 1637-1644
2. El-Ansary A, AlDbass A. and Qasem H. " Neurotoxins and autism". "Neurotoxins", editor: J. Eric McDuffie, ISBN 978-953-51-5402-0. (Inpress)
3. El-Ansary A. \*, Al-Salem H., Alqahtani A. and Al-Dbass A. (2017) Glutamate excitotoxicity induced by orally administered propionic acid, a short chain fatty acid can be ameliorated by bee pollen. *Lipids in Health and Disease* 16:96
4. Malik, A, Albogami, S., Alsenaidy, A, Aldbass, A., Alsenaidy, M. and Tabrez Khan, S. (2017) Spectral and thermal properties of novel eye lens  $\zeta$ -crystallin. *International Journal of biological Macromolecules*. 2017; :102 1052-1058.
5. Al-Rasheed, N. M., El-Orabi, N. F., Fadda, L. M., Ali, H. M., Nawal M. Al-Rasheed, N. M., Bassiouni, Y. & Aldbass, M.A. Role of Different Natural Antioxidants in the Modulation of mRNA-expression of Apoptotic Molecules in the Livers of Carbon Tetrachloride-Intoxicated Rats. [Anim Biotechnol.](#); 2017; :1-7.



6. Al-Daihan S., Aldbass A, Aloteb L. and Shafi Bhat R., (2016) Antioxidant and antimicrobial activity of whole seed extracts of *Persea americana* Mill Indian J. Pharm. Biol. Res. 4(4):15-18.
  
7. Afaf El-Ansary\*, Ramesa Shafi Bhat , Sooad Al-Daihan and **Abeer M Al Dbass**, (2015) The neurotoxic effects of ampicillin-associated gut bacterial imbalances compared to those of orally administered propionic acid in the etiology of persistent autistic features in rat pups: effects of various dietary regimens. *Gut Pathogens* 7:7.
  
8. Warsy, A.; Al-Jaser, M.; **Aldbass, A.**; Al-Daihan, S.; Alanazi, M., (2014) Is Consanguinity prevalence decreasing in Saudis?: a study in two generations, *African Health Sciences*, 14(2): 314–321
  
9. **Al-Dbass A\***, (2014) Effect of N-Acetylcysteine in ameliorating the neurotoxic effects of propionic acid in rat pups, *King Saud university journal [science]*, 26(4), pp. 254–260.
  
10. El-Ansary A\*, Abu-Shmais G and **Al-Dbass A**, (2013) Neuroprotective effect of creatine against propionic acid toxicity in neuroblastoma SH-SY5Y cells in culture. *African Journal of Biotechnology*, 12(31), pp. 4925-4935.
  
11. **Al-Dbass A**, Bhat R and \* El-Ansary A, (2013) Protective and Therapeutic potency of N-acetylcysteine against propionic acid-induced biochemical autistic features in rats. *Journal of Neuroinflammation*, 10(1):42.
  
12. Abu Shmais G, Al-Ayadhi L, **Al-Dbass A** , El-Ansary A\*, (2012) Mechanism of nitrogen metabolism-related parameters and enzyme activities in the pathophysiology of autism. *Journal of Neurodevelopmental Disorders*, 4:4.

13. Warsy A, Othman N, Habib Z, Addar M, **Al-Dbass A** and Al Anazi M. (2012) Menopause Related Blood Pressure Increase and its relation to Anthropometric Measurements in Saudi females. *Bioscience & Biotechnology Research Asia*, **9**(1), 217-222.
14. **Al-Dbass, A.\***, Al-Daihan, S, Bhat, R. S., (2012), Agaricus blazei Murill as an efficient hepatoprotective and antioxidant agent against CCl<sub>4</sub>-induced liver injury in rats. *Saudi journal of Biological Science*. (19): 303–309
15. Warsy A, A ,Othman N, Al Sulaimani M, Habib Z, Halawani M, Addar M, Al Daihan S, **Al Dbass A**, Al Anazi M. (2011) Plasma Leptin and its correlation with anthropometric variables in Saudi population. *Bioscience & Biotechnology research Asia*, **8**(2).
16. Afaf El-Ansary, S. Al-Daihan, **A. Al-Dbass**, L. Al-Ayadhi, (2010) Measurement of selected ions related to oxidative stress and energy metabolism in Saudi autistic children. *Clinical Biochemistry* **43**: 63-70.
17. El-Ansary A., Al-Daihan S., **Al-Dbass A.** Al-Ayhadi L, (2010) Key Glycolytic enzymes as biomarkers in plasma of Saudi autistic children. *Open access Journal clinical trials*, **2**:1-9
18. Gill R, Kolstoe SE, Mohammad F, **Al Dbass A**, Cooper JB, Wood SP, Shoolingin-Jordan PM. (2009) The structure of Porphobilinogen Deaminase at 2.8 Å: The molecular basis of acute intermittent porphyria. *Biochem J*. PMID: 19207107.
19. **Al-Dbass A.M.**, Mohammad A.M., and El-Ansary A. (2007) Comparative study on different types of red meat commonly consumed by Saudi population in Riyadh. *Egypt .J. pharm. J. (NRC)*, Vol.6. No.2, pp.193-204.

20. Mohamed S. Rashed, Lujane Y. Al-Ahaidib, Osama Y. Al-Dirbashi, Mohammad Al Amoudi, Moeen M. Al-Sayed, Zuhair Rahbeeni, Zuhair Al-Hassnan, **Abeer Al-Dbass**, Mohamed Al-Owain, Michelle Ni Luanaigh, (2005) Tandem mass spectrometric assay of Succinylacetone in urine for the diagnosis of Hepatorenal Tyrosinemia, *Analytical Biochemistry*. Vol. 339, pp.310-317.
21. Shoolingin – Jordan, PM. **Al-Dbass, A.M.**, McNeill, L.A., Sarwar, M. and Butler, D. (2003) Human Porphobilinogen Deaminase mutations in the investigation of the mechanism of dipyrromethane cofactor assembly and tetrapyrrol formation. *Biochem. Sco. Transactions*. Vol. 31, pp.731-735.

#### **(K) Research Interests**

- Autism.
- Antioxidant and antimicrobial activity
- Inborn errors of metabolism (Molecular and Biochemical aspects).
- Enzymes and Kinetics.
- Enzymes Deficiencies.
- Protein Crystallography and Modeling.
- Site Directed Mutagenesis.