

## Curriculum Vitae

### I. Personal Information

- **Full Name:** *Kamal Omer Mohamed Ali Abdalla*
- **First name:** Kamal
- **Surname:** Abdalla
- **Sex:** Male.
- **Date of Birth:** 01 January, 1969, Sudan.
- **Nationality:** Sudanese.
- **Address:** Department of Biochemistry,  
University of Gadarif, P. O. Box 449, Gadarif 32211, Sudan.
- **Mobile:** +249-119246534, Fax: +249-4481-42578.
- **E-mail Address:** [kamalabdalla7@yahoo.com](mailto:kamalabdalla7@yahoo.com) OR [kamalabdalla03@gmail.com](mailto:kamalabdalla03@gmail.com)
- **Skype:** [kamalabdalla47](https://www.skype.com/user/kamalabdalla47)
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- **Yahoo messenger:** [kamalabdalla7@yahoo.com](mailto:kamalabdalla7@yahoo.com)
- **Marital status:** Married, I have four daughters.  
**Spouse:** Amani Mustafa Elbada (Med. lab. Specialist-Medical Microbiology),  
BD: May 08, 1972.  
**Daughters:** Dorar, BD: June 22, 2003. Lamees, BD: Feb. 07, 2005. Rayan,  
BD: April 22, 2007, Alia, BD: October 08, 2011.
- **Passport No. & validity:** P00973788, issued Sept., 05, 2013. Valid till: Sept., 04, 2018.



### II. Key Skills

- Teaching, Learning, Research, Management, Administration, Organization and Leadership.

### III. Main Academic Qualifications

- **25 August 2005 to 14 December 2009.**  
**PhD** in Molecular & Cell Biology (Biology-Biochemistry) at the **University of Cape Town** in South Africa. **Thesis's title:** Analysis of the Nuclear Proteome of the Resurrection Plant *Xerophyta viscosa* (Baker) and its response to dehydration stress. I have earned 3 distinctions (3As) by my thesis's 3 international external examiners, the report is available upon request.
- **01 September, 1988 to 04 June 1993.**  
**Master's Diploma** (equivalent to B.Sc. Honors) in Biology-Biochemistry at **Saint-Petersburg State University** in the USSR. **Thesis' title:** Analysis of component composition of the cationic peptides from rabbit and porcine neutrophils and mass-spectrometric investigation of their structures. I defended the thesis with excellence.

#### **IV. Additional University Qualifications**

- **02 April-27 April, 2016**                      **Mini-Master in ISO** (9001, 14001, 22000 and 17025) Fundamental & Internal Audit (80 Hours) at American Institute of Personal Development, Khartoum.
- **01 May, 2015 to 31 May, 2015.**                      **Certificate** in Migration and Development at the **University of Maastricht** and the **United Nations University** in Maastricht, the Netherlands.
- **28 March 2015 to 30 April, 2015.**                      **Certificate** in Migration Management and Protection, at the **University of Maastricht** and the **United Nations University** in Maastricht, the Netherlands.
- **01 Sept., 1993 to 28 Sept., 1995**                      **Certificate** in clinical laboratory diagnostics (clinical Biochemistry, as a clinical scientist) at the Russian Academy for Advanced Medical Studies in Moscow.

#### **V. Work Experience, Academic Positions**

- **01 June, 2014 to date.**                      **Associate Professor** of Biochemistry and Molecular Biology, Faculty of Medicine & Health Sciences, University of Gadarif, Sudan.
- **04 Feb., 2008-30 June, 2014**  
**(6 years 5 months).**                      **Assistant Professor** of Biochemistry, University of Gadarif, Sudan.
- **01 December 1999 to 03 February 2008.**  
**(8 years 2 months)**                      **Lecturer** of Biochemistry. University of Gadarif, Sudan.
- **01 September 1992 to 30 June 1993.**  
**(10 months)**                      **Researcher** in protein chemistry at Institute for Analytical Instrumentation of the **Russian Academy of Sciences in Saint-Petersburg.**

#### **VI. Work Experience, Administrative Positions**

- **11 May, 2014 to date.**                      **Director**, Directorate of Scientific Research and External Relations, University of Gadarif, Sudan.

- **01 December, 1999 to 19 May, 2005,  
and from 01 February, 2010 to date.**

**Head**, Department of Biochemistry, Faculty of Medicine and Health Sciences, University of Gadarif, Sudan.

## **VII. Scientific Papers**

1. **Kamal Abdalla** et al., 2016. Effects of raw camel milk in glycaemic control and lipid profile of type 1 diabetic patients. Research paper, in preparation.
2. **Kamal Abdalla**, 2015. Clinical trials to treat type 2 diabetic patients with *Sonchus oleraceus* (Asteraceae). Research paper, in preparation.
3. **Kamal Abdalla**, 2015. Treatment of Chronic Dysentery with a single dose of fresh camel milk. In preparation.
4. **Kamal Abdalla** et al., 2015. Fermented camel milk significantly improves hemoglobin and renal profile in a patient with chronic renal failure. In preparation.
5. **Kamal Abdalla**, 2015. Chemical constituents of camel's milk and its effects on diabetes mellitus. *Gezira journal of health sciences*.
6. **Abdalla, Kamal Omer** (university of Khartoum, 2015). Camel milk is an alternative and a complementary treatment to the current parenteral insulin therapy of type 1 diabetes mellitus. The 6th Annual Conference - the Medical & Health Sciences Studies - February 2015.  
URL: <http://khartoumspace.uofk.edu/handle/123456789/19629>
7. Jill M Farrant; Keren Cooper, Amelia Hilgart, **Kamal O Abdalla**, Joanne Bentley, Jennifer A Thomson, Halford JW Dace, Nashied Peton, Sagadevan G Mundree, Mohamed Suhail Rafudeen, 2015. A molecular physiological review of vegetative desiccation tolerance in the resurrection plant *Xerophyta viscosa* (Baker). *Planta J. V 242*, issue 2, pp 407-426. (IF ~3.5)
8. **Kamal Omer Abdalla**, 2014. An overview of the therapeutic effects of camel milk in the treatment of type 1 diabetes mellitus. *J. Bio-molecular Research Therapeutics*. Issue 3: 118. doi:10.4172/2167-7956.1000118. V. 3. (IF ~2).
9. **Kamal Omer Abdalla**, and *Muhammad Suhail Rafudeen*, 2012. Analysis of the nuclear proteome of the resurrection plant *Xerophyta viscosa* in response to dehydration stress using iTRAQ with 2DLC and tandem mass spectrometry. *J. of Proteomics*; 75(8):2361-74. (IF ~5).
10. **Kamal Omer Abdalla**, *Bienyamien Baker and Muhammad Suhail Rafudeen*, 2010. Proteomic analysis of nuclear proteins during dehydration of the resurrection plant *Xerophyta viscosa*. *J. of Plant growth regulation*, 62:279-292. (IF ~2.5)
11. **Kamal Omer Abdalla**, *Jennifer Ann Thomson, Muhammad Suhail Rafudeen*, 2009. Protocols for nuclei isolation and nuclear protein extraction from the resurrection plant *Xerophyta viscosa* for proteomic studies. *Analytical Biochemistry* 384, 365-367. (IF ~3.5).
12. *Olga A. Mirgorodskaya, Andrew A. Shevchenko, Kamal Omer M.A, Abdalla & et al.*, 1993. Primary structure of three cationic peptides from porcine neutrophils, *Federation of European Biochemical Societies (FEBS)* 12933, 330, 339-342. (IF ~3.5).
13. **Kamal Omer Abdalla** and David Mackintosh, 2005. Isolation and purification of the malarial enzyme HGPRT as a target for anti-malaria drug. University of Cape Town.
14. **Kamal Omer Abdalla**. *Biochemistry of Metabolism and Its Regulation*, handout.
15. **Kamal Omer Abdalla**. *Nutritional values of commonly used Sudanese foods*, handout.
16. **Kamal Omer Abdalla**. *The Chemistry of diabetes mellitus*, unpublished work.
17. **Kamal Omer Abdalla**. *Guidelines for writing master dissertations and PhD theses*, unpublished work.

18. **Kamal Omer Abdalla.** Textbook of practical biochemistry, unpublished work.
19. **Kamal Omer Abdalla.** Medical service in Aldraweesh rural area, a case-study for improving health services in the rural areas of Gadarif State, unpublished data.
20. **Kamal Omer Abdalla** and Natalia Alexandrovna Voynova, 1993. The inhibiting effects of some tyrosine dyes (textile) on rat's 6PGDH, unpublished work.

### **VIII. Published Books**

1. **Kamal Abdalla, 2015.** Guideline for academic counselors, book in Arabic, Gadarif University, Sudan.
2. **Kamal Omer Abdalla, 2014.** Fundamentals of Biological Chemistry, textbook in English, ISBN: 978-99942-3-230-7.
3. **Kamal Omer Abdalla, 2013.** Secrets of Studying Excellence, (book in Arabic) (Asrar Altafoq Aldirasi). ISBN: 987-99942-69-15-0. Published by Gezira Corporation for print and press, Sudan.
4. **Kamal Omer Abdalla, 2012.** Treatment of incurable ailments with camel's milk and urine, based on scientific research (book in Arabic) (Elaaj Alamraad Almostasia Be-laban Wa-bool Al-ebeel, Be-esbaat Al-bahth Al-elmi). ISBN: 978-99942-64-15-5. Published by Int'l University of Africa Press in Sudan.
5. **Kamal Omer Abdalla, 2004.** Scientific and Historic Analysis of AIDS Endemics (book in Arabic), (Altahlil Alelmi Wa-altarikhi Le-waba-Alaids). ISBN 978-99942-871-4-7. Khartoum University Press, Sudan.

### **XI. Conferences and Workshops**

1. **04 June, 2016.** Workshop, development of postgraduate studies at the University of Gadarif, Venue, Gadarif University, Gadarif, Sudan.
2. **12 May, 2016.** Workshop, regulations of research and academic ethics in Sudan: current situation and future vision. The Role of Sudanese Higher Institutions in regulation and implementation the principles and bases of research ethics. The Grand Hall, Sudan Ministry of Higher Education & Scientific Research, Khartoum.
3. **7-9 March, 2016.** Sudanese German Forum on Higher Education and Scientific Research, the Grand Hall, Sudan Ministry of Higher Education & Scientific Research, Khartoum.
4. **22-24 January, 2016.** Chairman of special Session on the Role of Sudanese & Ethiopian Universities in Promoting Relationships Between Sudan & Ethiopia, Fourth International Conference on Computer Sciences & Information Technology, University of Gadarif, Sudan.
5. **17<sup>th</sup> January, 2016.** Horizon 2020, Opportunities for International Cooperation in Research and Innovation, the Grand Hall, Sudan Ministry of Higher Education & Scientific Research, Khartoum.
6. **27-28 December, 2015.** Consultative Forum of Sudanese Experts working abroad to design a road-map for knowledge transfer in Sudan through the Sudanese Partnership for Knowledge Transfer by Expatriate Nationals (SPaKTEN). Organizer: Secretariat of Sudanese Working Abroad, venue: Grand Holiday Villa Hotel, Khartoum, Sudan.
7. **14-16 December, 2015.** Conference on Higher Education and Scientific Research are the basis of development, venue: Conferences' Hall, Sudan Ministry of Higher Education and Scientific Research, Khartoum.
8. **03 December, 2015.** Forum on Higher Education and Scientific Research are the basis of renaissance & development, venue: Alkhabeir's Hall for International Conferences, University of the Red Sea, Port-Sudan.
9. **11-18 November, 2015.** Scientific training workshop: scientific signs in Qur'an and Sunnah organized by International Commission on Scientific Signs in Qur'an and Sunnah of the Muslim World League. Venue: leMeridien Hotel, Cairo, Egypt.

10. **02- 04 November, 2015.** Training workshop on the importance of intellectual property in scientific research organized by Intellectual Property Department of Sudan Ministry of Justice, Industrial Research and Consultancy Centre, Federation of Arab Scientific Research Councils and the World Intellectual Property Organization in Geneva. Venue: Sudan Open University, Khartoum, Sudan.
11. **17 October, 2015.** Workshop on implementation of decentralization of administrative and financial affairs of the University of Gadarif. Venue, Gadarif University, Gadarif, Sudan.
12. **29 September-02 October 2015.** Conference on towards a paradigm shift in conflict analysis, tools and resolution in Sudan and South Sudan. Organized by Centre for Peace and Development Studies, University of Bahri in Sudan, in collaboration with School of Conflict Analysis and Resolution of the University of George Mason in USA. Venue: Friendship Hall and Grand Holiday Villa Hotel, Khartoum, Sudan.
13. **02 June, 2015.** International Conference on Diaspora in Action, Dutch Ministry of Foreign Affairs and International Organization for Migration (IOM), the Hague, Netherlands.
14. **20-24 April, 2015.** Effective communication skills training workshop: debating, writing, and personal presentations. Maastricht Graduate School of Governance, University of Maastricht, Netherlands.
15. **31 March, 2015.** Blackboard training, University of Maastricht, Netherlands.
16. **20-22 February, 2015,** the 6<sup>th</sup> Annual Postgraduate Studies & Scientific Research Conference, University of Khartoum, Sudan. I participated with a poster presentation under the title: Camel milk is an alternative and a complementary treatment to the current parenteral insulin therapy of type 1 diabetes mellitus.
17. **12-14 January 2015.** I participated in Sudan Turkish Universities Collaboration Conference and Education Fair, Khartoum, Sudan.
18. **24-25 December, 2014.** I participated in Regional workshop on boarder issues in the Horn of Africa, University of Gadarif and the University of Khartoum, venue, Gadarif.
19. **16-20 November, 2014,** I participated in Molecular Epidemiology Course. University of Khartoum, Sudan.
20. **10-13 August, 2014.** I participated in training workshop entitled support and follow up of trained cadre in their dissemination of knowledge and communication. Ahfad University for Women, Sudan.
21. **16-18 June, 2014.** I participated in workshop on national standards for quality assurance in higher education in Sudan. Khartoum University Centre for Advanced training, Sudan.
22. **11 March, 2014.** I participated in workshop on bioethics an interdisciplinary approach, an overview. University of Khartoum, Faculty of Medicine, Sudan.
23. **09 December. 2013,** I participated in workshop on Code of post-graduate studies within the Sudanese Higher Educational Institutions, University of Gadarif, Sudan.
24. **29 June, 2013.** I participated in workshop on quality number and university number at University of Gadarif, Sudan.
25. **17-19 April, 2013.** I participated in international conference on camel's research and productions. Friendship Hall, Sudan University of science and technology, Khartoum.
26. **01-03 October, 2011.** I participated in training workshop on academic counseling, University of Gezira in joint with the University of Gadarif, Sudan.
27. **24-28 October, 2010.** I participated in workshop on teaching and learning held at Educational Development Centre at the University of Khartoum in Sudan.
28. **21-25 November, 2010.** I participated in workshop on assessment and evaluation held at Educational Development Centre at the University of Khartoum in Sudan.
29. **12-16 December, 2010.** I participated in workshop on course design and management held at Educational Development Centre at the University of Khartoum in Sudan.
30. **06 October, 2008.** I participated in workshop on nano-HPLC (chips) proteins separation and protein identification and detection. Protein identification using a combination of collision induced

dissociation and electron transfer dissociation MS/MS, and protein quantitation with HPLC-Chip/MS and isotope labeled peptides. Agilent Technologies of Germany in the Western Cape University, South Africa.

31. **July-November 2008.** Writing effectiveness workshops, University of Cape Town, South Africa.
32. **10-14 March, 2008,** I participated in proteomic MS/MS data analysis, processing, identification and management course. National Bioinformatics Network & Centre for Proteomics and Genomics Research, University of Cape Town and Institute of Infectious Diseases & Molecular Medicine.
33. **03-05 March, 2008.** I participated in international proteomics conference. University of the Western Cape, Department of Biotechnology, South African.
34. **06-07 July, 2007.** I participated in workshop on research methodologies for proteomics & genomics organized by the National Bioinformatics Network & Centre for Proteomics and Genomics Research at the University of Cape Town and Institute of Infectious Diseases & Molecular Medicine, South Africa.
35. **12-14 June, 2007.** I participated in proteomic data analysis workshop. National Bioinformatics Network & Centre for Proteomics and Genomics Research, University of Cape Town and Institute of Infectious Diseases & Molecular Medicine, South Africa.
36. **12-13 July, 2006,** I participated in Bio-Rad 2DE data analysis workshop held at the University of Cape Town, Department of Molecular & Cell Biology, South Africa.
37. **16-20 March, 2006,** I participated in workshop on applied 2DE held at the National Bioinformatics Network, University of the Western Cape, South Africa.
38. **06-07 March, 2006.** I participated in an international proteomics conference, the University of the Western Cape, Department of Biotechnology, South Africa.
39. **17 September, 2003.** I was the chairman of committee that prepared and I presented the current biochemistry syllabus of the University of Gadarif in a workshop entitled revision of the curriculum of faculty of Medicine & Health Sciences, organized by Medical Educational Development & Research Centre of the University of Gezira, Sudan.
40. **09 October, 2002.** I was the chairman of a committee that prepared and I presented the current biochemistry syllabus of the Faculty of Medicine and Health Sciences of the University of Gadarif in a workshop entitled revision of the curriculum of this faculty organized by Medical Educational Development & Research Centre of the University of Gezira, Sudan.

## X. Special Skills

1. Expertise in teaching Biochemistry and Basic Human Genetics.
2. Expertise in running and supervision of basic and community-oriented scientific research.
3. Expertise in examination and supervision of postgraduate studies.
4. Expertise in supervision of Biochemistry undergraduate laboratory works.
5. Expertise in optimization of methodologies of isolation of nuclei from plant tissues.
6. Expertise in optimization of methodologies of extraction of proteins from whole plant tissues and sub-cellular organelles.
7. Expertise in optimization of Western blot analysis.
8. Expertise in performing 1SDS PAGE and 2DE with data analysis and interpretation.
9. Expertise in protein purification techniques such as: ion-exchange and affinity chromatography.
10. Expertise in protein assays, protein dialysis and lyophilization.
11. Expertise in performing enzyme inhibiting kinetic studies: 6PGDH with textile dyes (tyrosine inhibitors).
12. Expertise in bacterial transformation and protein expression in bacteria.
13. Expertise in DNA and RNA isolation and purification.
14. Expertise in academic writing.

15. I invited as editorial member of many international scientific journals notable SOJ Biochemistry, SOJ Immunology and Journal of Biochemistry & Physiology and etc.
16. Referee for the Journal of Proteome Science, USA, April, 2013.
17. Computer competency: MS Word, MS Excel, MS Power Point, Picture Manager, Office Tools, Outlook expression, internet.
18. Typing competent: Arabic, English and Russian languages.
19. Expertise in management and administration of scientific departments and divisions.
20. I am ambitious, interested and knowledgeable to work with international institutions and communities.
21. Full professional proficiency in English, Russian and Arabic Languages.

## **XI. Research Grants and Research Projects**

1. Awarded research grant (2013) on 15 Jan., 2014 (SP25.000.000) by Sudan Ministry of higher Education and Scientific Research to investigate the therapeutic effects of camel's milk on type 1 diabetes mellitus.
2. Supervisor of research projects to investigate therapeutic effects of camel milk and *Sonchus oleraceus* (*Asteraceae*) in the treatment of diabetes mellitus and other human chronic diseases.

## **XII. Awards and Honors**

1. Letter from the Editor of Journal of Biomolecular Research & Therapeutics ([editor.jbmrt@omicsinc.com](mailto:editor.jbmrt@omicsinc.com)) that I have well-contributed for the development of the Journal through publication, 16 October, 2015.
2. Awarded Scholarship for Migration Management Diploma Program in 2015 funded by the International Organization for Migration (IOM), MGSOG/UNU-MERIT, the Netherlands.
3. Awarded cash prizes four times for merits in authorship by the University of Gadarif in Sudan during the years: 2007, 2012, 2013 and 2014.
4. Awarded permanent residence permit in the Republic of South Africa under the category of extraordinary skills on 2009-04-06.
5. Awarded UCT international academic scholarship for academic merits in 2007.
6. Awarded research bursary, MCB department, UCT for 2 years 2007-008.
7. Awarded full scholarship in a competitive basis to study in the former Soviet Union for Master's Diploma, 1988-1993.
8. Awarded cash prize 1982 in intermediate school (Village-10 Alfau in Sudan) for talented student.

## **XIII. Membership with International and National Scientific & Civil Organizations**

1. Advisory Board Member of the World Association for Sustainable Development (WASD), University of Sussex, the UK, <http://www.wasd.org.uk>.
2. Sudan Advisory Board Member of the International Journal of Sudan Research (IJSR), University of Sussex, the UK (<http://www.sudanknowledge.org/journals/international-journal-of-sudan-research-ijsr/editorial-team/>).
3. Editorial member, Journal of Science Reports-Takshila, <http://takshila.org/editorial-board/>.
4. My profile is published on OMICS Group International website for excellent contribution for the development of Journal of Biomolecular Research & Therapeutics, [http://www.omicsgroup.org/author-profile/Abdalla\\_KO/](http://www.omicsgroup.org/author-profile/Abdalla_KO/)
5. Regular reviewer for the Journal of Ethnopharmacology, <http://ees.elsevier.com/jep/>.
6. Secretary of External Relations of Workers' Union of Gadarif University as from 2016.

7. Member of the International Commission on Scientific Signs in Qur'an and Sunnah, Muslim World League, Sudan Office and HQ office in Makah, Kingdom of Saudi Arabia.
8. Member of the Editorial Board of Gadarif University Journal for Science & Humanity.
9. Member of Council of Gadarif University Journal for Science & Humanity.
10. Editorial Member, J. of Biochemistry and Physiology.
11. Editorial Member, Merit Research J. of Medicine & Medical Sciences.
12. Member of the American Association for the Advancement of Science (AAAS), 2008-2010.
13. Member of Senate of the University of Gadarif (U of G).
14. Member of Board of Secretariat of Academic Affairs at the U of G.
15. Member of Board of Faculty of Medicine and Health Sciences at the U of G.
16. Member of Board of faculty of post- graduate studies at the U of G.
17. Member of Board of Centre for Advanced Training and Technical Consultancy at the U of G.
18. Chairman of Academic Counseling Committee, U of G.
19. Member of Curriculum Development Committee, Faculty of Medicine and Health Sciences at the U of G.
20. Member of Self-assessment and Quality Assurance Committee, Faculty of Medicine and Health Sciences at the U of G.
21. Member of Course Feedback Committee, Faculty of Medicine and Health Sciences at the U of G  
Faculty of Medicine and Health Sciences at the U of G.
22. Member and previous chairman of Faculty Examination Committee, Faculty of Medicine and Health Sciences at the U of G.
23. Member of Faculty of Medicine Accreditation Committee.
24. Member of Plagiarism Committee, Faculty of Medicine and Health Sciences at the U of G.
25. Member of Faculty Farewell Committee, Faculty of Medicine and Health Sciences at the U of G.
26. Member of committee of revision of abstract of M.Sc. MBA, MD and PhD, U of G.
27. Member of the UCT and Saint-Petersburg State University Alumni.

#### **XIV. Popularization of Science and Community Service**

Since 2013 to date I have been involving in science popularization and community- related activities that include:

- Delivering lectures on regular basis on nutritional values of commonly used Sudanese foods to the populations in Gadarif State, Sudan.
- TV: Sudan TV presented my book (on 19 May, 2013): Treatment of incurable ailments with camel's milk and urine, based on scientific research, as first Sudanese scientist to write a scientific work on health benefits of camel milk and urine.
- Program: Darfur radio FM 90/3 (11 June, 2013), I delivered a lecture on nutritional values and therapeutic effects of camel's milk.
- Delivering lectures on regular basis on studying excellence and better behavioral changes to students of secondary schools in the State of Gadarif.
- Delivering lectures on nutritional and health benefits of camel milk and urine to the population of Gadarif State.
- Delivering lectures on regular basis on the importance of oxygen and water to life to students of the University of Gadarif.
- I answer on a daily basis questions of Sudanese public about health benefits of camel milk and urine.



## References

1. **Prof. MS, Rafudeen**, Molecular & Cell Biology Department, University of Cape Town, Upper Campus, 22 University Avenue, Private Bag, Rondebosch 7701, Cape Town, South Africa. Cell phone: (+27) 837812025, office tel. /fax: (+27-21) 6503263. E-mail: [Suhail.Rafudeen@uct.ac.za](mailto:Suhail.Rafudeen@uct.ac.za)
2. **Prof. Gamal Khalid Adam**, Faculty of Medicine and Health Sciences, University of Gadarif, Gadarif 32211, PO box 449, Sudan. Mobile: 00249-912539372 or 00240-114747152. Fax: +249-4481-42578, E-mail: [gamalkhalid5@hotmail.com](mailto:gamalkhalid5@hotmail.com)
3. **Prof. Osman Sadiq Bukhari**, Faculty of Medicine and Health Sciences, University of Gadarif, Gadarif 32211, PO box 449, Sudan. Mobile: 00249-912315718. Fax: +249-4481-42578, E-mail: [osman.sadiq@yahoo.com](mailto:osman.sadiq@yahoo.com)
4. **Dr. Robin Thomas**, Scientist, Roche Molecular Systems, Inc. 4300 Hacienda Dr. Pleasanton, CA 94588, USA. Phone: +1 925-730-8633, iPhone: +1 925-353-7814. Email: [robin.thomas.rt1@roche.com](mailto:robin.thomas.rt1@roche.com) or E-mail: [robincarlthomas@gmail.com](mailto:robincarlthomas@gmail.com)