

## ASHRAF NABIEL ABDALLA ABDRABO

### Host Institute

#### University of Nottingham

Faculty of Science, School of Pharmacy  
Centre for Biomolecular Sciences (CBS)  
Department of Medicinal Chemistry & Structural Biology  
Clifton Boulevard, University Park  
Nottingham, NG7 2RD, UK

### Home Institute

Ministry of Science and Technology  
National Centre for Research  
Medicinal and Aromatic Plants Research Institute  
P.O. Box: 2404, Khartoum – Sudan

E-mail: [ashraf\\_abdalla@hotmail.com](mailto:ashraf_abdalla@hotmail.com)

### HIGHLIGHTS OF QUALIFICATIONS

- 11 years experience in research and teaching of natural products, synthetics and molecular target-directed drug discovery; and microbiology.
- Patent: Ashraf A. and Mohammed A., Sudan, No. 1264/2005: New ointment from MeOH extract of *Solenostemma argel* in polyethylene glycol for treatment of open wounds.
- Rehabilitation of the National experimental animal house (NEAH), Sudan.

### SKILLS AND EXPERINNCE

#### Research projects

##### UK

Anticancer activity of medicinal plants	2007-2011
Investigation of synthetic and virtually screened compounds for inhibition of eIF4E	2011
Inhibition of MAPK-interacting protein kinase and mTOR (combination study)	2011
Investigation of mitotic and polo-like inhibitors (Novel benzyl styrylsulfonyls)	2011
Novel CDK9 inhibitors	2011
Nottingham managed chemical compound collection-high through put	2011
Dissolution, quality control (UFLC-LCMS Shimadzu LC2020), storage, construction of library-database of 250 compounds; addition to the automated store (comPOUND), and robotic screening (comPILER)	
Observer for Yellow Cards Scheme usability test, NHS, UK	2008

*Techniques acquired during PhD: photochemistry, chromatography (solid liquid and liquid-liquid extraction, and flash), HPLC, LCMS. Tissue culture, cell based assays, flowcytometry, immune-flourescence, immuno-blotting, DNA and RNA extraction, PCR, and drug combination studies. High through put robotics.*

##### Sudan

Antimicrobial, antimalaria and wound healing activities of medicinal plants	2000-2007
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## **Teaching**

Intensive learning and teaching programme (ILTP) **2011**  
University of Nottingham. Preparing application for associate status of the Higher Education Academy (HEA-UK)

Postgraduate teaching assistant **2008-2011**  
School of Pharmacy, University of Nottingham, MPharm students: Laboratory studies in Pharmaceutical Sciences, Pharmaceutical Microbiology, Sterile production and Hospital aseptic dispensing. In addition to advising MSc and PhD students.

Lecturer **2002-2006**  
Faculties of Medicine and Health sciences; and Pure and Applied Science, International University of Africa, Biology.

Postgraduate teaching assistant **2004-2006**  
Faculty of Pharmacy, Omdurman Islamic University, department of Pharmaceutics (Microbiology). And supervisor for 6 graduation projects: Quality Control of microbial contaminants of synthetic drugs.

Postgraduate teaching assistant **2004-2005**  
School of Biotechnology, University of Alneelain, department of Microbiology and Molecular Biology.

Co-supervision of six higher diploma students in medical microbiology, Sudan **2003**

## **Administration**

Invigilator in University of Nottingham examination office **2008-2011**

Supervisor, National Experimental Animal House, Sudan. **2000-2007**

Supervisor, Microbiology Laboratory **2002-2007**  
Lab management, practical supervision. Assistance for undergraduates, trainees, higher diploma 'Medical Microbiology' and master students.

SPSS statistical Data Analysis **2005**  
Intellectual property questionnaires, WIPO-COMESA project for National Intellectual Property Assessment (IPA) in Sudan.

Member, Promotion of Administrative Staff Committee, Sudan **2004**

## **Information Technology (IT)**

Student IT Supporting-tutor, University of Nottingham, UK **2011**  
Dealing with 8,000 international students: advice on connecting to internet, antivirus downloads, flagging complex issues to helpline staff, workspace, student network service, wireless, registration.

User of e-labbook, www.idbs.com **2009-2011**

Computer Application Diploma, Sudan **1999**

## EMPLOYMENT HISTORY

**Researcher** **2000-2007**  
Medicinal and Aromatic Plants Research Institute, National Centre for Research, Sudan.

## EDUCATION HISTORY

**PhD in Pharmacy** **2007-2011**  
University of Nottingham, UK, school of Pharmacy, department of medicinal chemistry and structural biology, Cancer Research Nottingham. With Prof Peter Fischer and Dr Tracey Bradshaw: Investigation of the anti-breast cancer activity of traditionally used Sudanese medicinal plants, with emphasis on *Indigofera astragalina*.

**Master in Pharmaceutical Microbiology (M.Sc.)** **2003-2005**  
University of Khartoum, Sudan, faculty of Pharmacy, department of pharmaceuticals, grade: excellent: Antimicrobial and wound healing activity of ten selected medicinal plants.

**Bachelor of Veterinary Sciences (B.V.Sc.)** **1994-1999**  
University of Khartoum, Sudan, faculty of Veterinary Sciences, grade: excellent (top 10 % class). Merits: Animal Husbandry, Microbiology, Animal Production (merit with 2 prizes).

## MEMBERSHIPS, INTERESTS AND VOLUNTARY WORK

American Association for the Advancement of Science (AAAS). European Association for Cancer Research (EACR). American Association for Cancer Research (AACR). Football, cycling and collection of old coins. Volunteered in Multi-faith events, Sudanese community, UK (2011).

## PUBLICATIONS

Abdalla AN, Fischer PM, Bradshaw TD: **Exploring the Medical Benefits of Sudanese Medicinal Plants as a Practical Element in Sustainable development**. In: *Conference of the Role of Diaspora in Technology Transfer and Achieving Sustainable Development in Sudan; oral presentation, Brighton, UK*. 24-25 Jan 2009. (<http://sudanknowledge.org/index.php/component/sobi2/?sobi2Task=sobi2Details&catid=15&sobi2Id=110>).

Abdalla AN, Fischer PM, Bradshaw TD: **Investigation of the anti breast cancer activity of five traditionally used Sudanese medicinal plants I**. In: *AACR conference, poster No 779; Washington DC, USA*. 17-21 Apr 2010. (<http://www.abstractsonline.com/Plan/ViewAbstract.aspx?mID=2521&sKey=88163e45-7ba2-411a-a631-fdba51b127e4&cKey=b4ee55c3-b852-448b-9169-f5e43c3b4a0f&mKey=%7b0591FA3B-AFEF-49D2-8E65-5F41EE8117E%7d>).

Abdalla AN, Fischer PM, Bradshaw TD: **Investigation of the anti breast cancer activity of five traditionally used Sudanese medicinal plants II**. In: *Journal of Pharmacy and Pharmacology*. 2010, **62**(10): 1201-1516. (<http://onlinelibrary.wiley.com/doi/10.1111/jphp.2010.62.issue-10/issuetoc>).

Chahrour O, Xiangrui L, Lam F, Abdalla A, Midgley C, Wang S: **Synthesis and biological evaluation of thymoquinone derivatives and ON01910 derivatives as anticancer agents**. In: *NCRI conference, late breaking abstract No LB 156; Liverpool, UK*. 7-10 Nov 2010. (<http://www.ncri.org.uk/ncriconference/2010abstracts/abstracts/LB156.htm>).

Chahrour O, Abdalla A, Lam F, Midgley C, Wang S: **Synthesis and biological evaluation of benzyl styrylsulfonyl derivatives as potent anticancer mitotic inhibitors**. *Bioorg Med Chem Lett* 2011, **21**(10):3066-3069. (DOI: [10.1016/j.bmcl.2011.03.041](https://doi.org/10.1016/j.bmcl.2011.03.041)) [IF=2.661].

## CONFERENCES

Chahrour O, Xiangrui L, Franki L, Abdallah A, Midgley C, Shudong W. Design, synthesis and biological evaluation of novel thymoquinone and ON 01910.Na derivatives as anticancer agents. In: 4<sup>th</sup> Biological and medicinal chemistry symposium 2010; 10 Dec; Cambridge, UK

Chahrour O, Wang S. Ligand based discovery of novel non ATP-competitive PLK1 inhibitors. In: Nottingham school of pharmacy conference 2008; Nottingham, UK.