

CURRICULUM VITAE

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EDUCATION

University of Bristol, UK, School of
Chemistry

PhD. in Chemistry, 2014
Thesis title: *Tropolone and
Sorbicillactone Biosynthesis in Fungi*

King Saud University, College of Sciences

M.Sc. in Chemistry, 2007

Umm Al-Qura University, College of Applied
Sciences

B.Sc. in Chemistry and a minor degree in
Education, 1999

INTERESTS

- The application of molecular biology methods such as knockout, silence or heterologous expression on fungal biosynthetic genes for the generation of new secondary metabolites of pharmaceutical and agrochemical interest. This includes isolation and structural elucidation of new compounds from those experiments and useful compounds could be tested for new biological properties.
- The production of soluble active biosynthetic enzymes for in vitro assays and the chemical synthesis of suitable substrates. The investigation of mechanisms and selectivity of biosynthetic enzymes for biological exploitation.

PUBLICATIONS

1. **A. Abood, A. Al-Fahad, A. Scott, A. M. Hosny, A. M. Hashem, A. M. Fattah, P. R. Race, T. J. Simpson^a and R. J. Cox:** Kinetic characterisation of the FAD dependent monooxygenase TropB and investigation of its biotransformation potential, *RSC Adv.*, **2015**, 5, 49987-49995.
[DOI: 10.1039/C5RA06693J](https://doi.org/10.1039/C5RA06693J)
2. **A. Al-Fahad, A. Abood, T. J. Simpson, R. J. Cox:** The Biosynthesis and Catabolism of the Maleic Anhydride Moiety of Stipitonic Acid, *Angew. Chem. Int. Ed.*, **2014**, 53, 1-6.
[DOI: 10.1002/anie.201403450](https://doi.org/10.1002/anie.201403450).

3. **A. Al-Fahad, A. Abood, K. M. Fisch, A. Osipow, J. Davison, M. Avramovic, C. P. Butts, J. Piel, T. J. Simpson, R. J. Cox** : Oxidative Dearomatisation: The Key Step of Sorbicillinoid Biosynthesis, *Chem. Sci.* **2014**, *5*, 523-527.
DOI: [10.1039/C3SC52911H](https://doi.org/10.1039/C3SC52911H).
4. **R. J. Cox, A. Al-Fahad** : Chemical mechanisms involved during the biosynthesis of tropolones, *Curr. Opin. Chem. Biol.*, **2013**, *17*, 532-536.
DOI: [10.1016/j.cbpa.2013.06.029](https://doi.org/10.1016/j.cbpa.2013.06.029).
5. **J. Davison, A. Al-Fahad, M. Cai, Z. Song, S. Yehia, C. M. Lazarus, A. M. Bailey, T. J. Simpson and R. J. Cox**: Genetic, Molecular and Biochemical Basis of Fungal Tropolone Biosynthesis, *Proc. Natl. Acad. Sci. USA.*, **2012**, *109*(20), 7642-7647.
DOI: [10.1073/pnas.1201469109](https://doi.org/10.1073/pnas.1201469109).

TEACHING EXPERIENCE

- A chemistry teacher at the Ministry of Education of Saudi Arabia 1999-2002
- A chemistry assistant lecturer, Chemistry department, Albaha University 2002-2003
- A chemistry lecturer, Albaha University 2008-2013
- An assistant professor, Albaha University 2014 to date
- A vice dean of academic research, Albaha University 2015 to date
- A dean of academic research, Albaha University 2016 to date
- A chairman of Computer Sciences and Information Systems Department, Faculty of Science, Albaha University 2015 to date
- A member of Royal Society of Chemistry *RSC*

ACADEMIC PRESENTATIONS

- The Royal Society of Chemistry International Directing Biosynthesis IV Conference at the John Innes Centre, Norwich on 25-27 March 2015.
- The Royal Society of Chemistry International Directing Biosynthesis III Conference at the University of Nottingham on 19-21 September 2012. (Poster)
- Fungal group meeting, School of Chemistry, University of Bristol 2012. (talk)
- Syngenta Poster Competition, School of Chemistry, University of Bristol. (Poster)
- Bio-Organic Postgraduate Symposium, School of Chemistry, Cardiff University 2012. (Poster)

AWARDS

- The 1st prize of Syngenta Poster Competition at the School of Chemistry University of Bristol 2012.
- Three rewards and congratulatory letters for outstanding academic performance during my PhD study from Saudi Arabian Cultural Bureau, London, UK in 2012, 2013 and 2014.

REFERENCES

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