

Rachel Currier, B.Sc, M.Sc, Ph.D

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Employment:

- Dec 2017 – Present **Postdoctoral researcher**
Universität Heidelberg (PI Prof. Dr Luise Krauth Siegel)
Investigating thiol redox control in African Trypanosomes.
- Aug 2013 – Sept 2016 **Postdoctoral researcher**
London School of Hygiene and Tropical Medicine (PI Associate Prof. Sam Alford)
Applying a genome-wide RNAi library screen to identify and characterise parasite-specific determinants which define susceptibility to serum trypanolytic factors in African Trypanosomes.
- Oct 2012 – May 2013 **Postdoctoral researcher**
Liverpool School of Tropical Medicine (PI Dr Robert Harrison)
Investigating the stability and biological function of messenger RNA in snake venoms

Education:

- Sept 2008 – Sept 2012 **Ph.D**
Liverpool School of Tropical Medicine (PI Drs Robert Harrison and Simon Wagstaff)
'Investigating venom synthesis: Exploring the composition, variation and gene expression dynamics of *Bitis arietans* venom'.
- Sept 2008 – Sept 2008 **M.Sc Parasitology**
Liverpool School of Tropical Medicine
- Sept 2004 – July 2007 **B.Sc (Hons) Bioveterinary Science**
University of Liverpool

Publications:

- Macedo, J.P., Currier, R.B., Wirdnam, C., Horn, D., Alford, S. and Rentsch, D. (2017) "Ornithine uptake and the modulation of drug sensitivity in *Trypanosoma brucei*". The FASEB Journal
- Alford, S., Currier, R.B., Guerra-Assunção, J.A., Clark, T.G. and Horn, D. (2014) "Cathepsin-L can resist lysis by human serum in *Trypanosoma brucei brucei*". PLoS Pathogens 10 (5). e1004130. ISSN 1553-7366 doi:10.1371/journal.ppat.1004130
- Vonk, F.J, Casewell, N.R, Henkel, C.V, Heimberg, A, McCleary, R.J.R, Kerckamp, H.M.E, Vos, R, McGlenn, E, Guerreiro, I, Calvete, J.J, Wuster, W, Logan, J.M, Woods, W.E, Harrison, R.A, Castoe, T.A, de Koning, A.P.J, Pollock, D.D, Renjifo, C, Currier, R.B., Salgado, D, Pla, D, Sanz, L, Spaink, H.P, Jansen, H.J, Hyder, A.S, Ribeiro, J.M.C, Arntzen, P.W, van den Thillart, G.E.E.J, Boetzer, M, Pirovano, W, Dirks, R.P, Duboule, D, Kini, R.M,

Richardson, M.K (2013) "King cobra genome reveals dynamic duplication and adaptation in the snake venom system". PNAS 110 (51). pp. 20651-6. ISSN 0027-8424 doi: 10.1073/pnas.1314702110

- Currier, R.B, Calvete, J.J, Sanz, L., Harrison, R.A, Rowley, P.D and Wagstaff, S.C (2012) "Unusual stability of messenger RNA in snake venom reveals gene expression dynamics of venom replenishment". Public Library of Science One 7(8): e41888. doi:10.1371/journal.pone.0041888
- Harrison, R.A, Cook, D.A, Renjifo, C, Casewell, N.R, Currier, R.B and Wagstaff, S.C (2011) "Research strategies to improve snakebite treatment: Challenges and Progress". Journal of Proteomics Vol. 74 p. 1768-1780.
- Currier, R.B, Harrison, R.A, Rowley, P.D, Laing, G.D and Wagstaff, SC (2010) "Intra-specific variation in venom of the African Puff Adder (*Bitis arietans*): differential expression and activity of snake venom metalloproteinases (SVMs)". Toxicon Vol. 55 Issue 4 p. 864-873.

Conference attendance and prizes:

- Kinetoplastid Molecular Cell Biology Meeting, Woods Hole – Poster presentation (2015)
- British Society of Parasitology Tryp/Leish Symposium, University of Cambridge – Poster presentation (2014).
- University of Bangor Herpetological Society Venom Day – Oral presentation (2012).
- British Herpetological Society Annual Symposium, Bangor University – Oral presentation (2011).
- International Society on Toxinology European Congress, Valencia – Oral presentation (2011).
- LSTM Postgraduate seminar day – Oral presentation (2011).
- LSTM Postgraduate seminar day – Oral presentation (Runner up prize) (2010).
- University of Liverpool Postgraduate Poster day – poster presentation (Highly recommended) (2010).
- University of Bangor Herpetological Society Venom Day – Oral presentation (2010).
- International Society on Toxinology World Congress, Brazil – Oral and poster presentation (2009).

Further training and activities:

- SPP1710 Summer School, TU Kaiserslautern (25th-30th June 2017): '*Monitoring redox processes in living organisms*'.
- Postgraduate Certificate in Learning and Teaching, London School of Hygiene and Tropical Medicine (certificate completed June 2017).
- Laboratory Diagnosis of Fecal and Blood Parasites course, Liverpool School of Tropical Medicine (17-21st January 2011).
- European Bioinformatics Institute/Wellcome Trust Proteomics and Bioinformatics Advanced course, Cambridge (9-13th November 2009).
- STEM ambassador: Visiting schools to encourage young people to study and enjoy STEM subjects (science, technology, engineering and mathematics).

Other skills:

- Language: English (native)
- IT: proficient in MS office, Adobe Photoshop, various bioinformatics software tools.