

CURRICULUM VITAE

STEPHANIE DIEZMANN, PHD

CONTACT INFORMATION

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CURRENT AND PAST ACADEMIC APPOINTMENTS

2018 – present Senior Lecturer at the University of Bristol
2015 – 2018 Lecturer at the University of Bath
2013 – 2015 University of Bath Prize Fellow

EDUCATION & WORK EXPERIENCE

2017 Fellow of the Higher Education Academy

2009 – 2013 Postdoctoral Fellow – Prof Leah E Cowen
Department of Molecular Genetics
University of Toronto, Canada

2002 – 2009 PhD Thesis – Prof Fred S Dietrich
Duke University Program in Genetics & Genomics
Duke University Medical Center, Durham, USA

1997 – 2002 Diploma in Biology (Undergraduate), Humboldt University, Berlin, Germany

Diploma Thesis – Profs Thomas Börner and Thomas G Mitchell
Department of Biology, Humboldt University, Berlin, Germany
Department of Molecular Genetics & Microbiology
Duke University, Durham, USA

1998 – 2000 Part-time laboratory technician, Charité University Hospital, Berlin, Germany

1994 – 1997 Laboratory Technician Apprenticeship
Charité University Hospital, Berlin, Germany

PARENTAL RESPONSIBILITIES

2017 – 2018 Maternity leave (10 months)

FUNDING & FELLOWSHIPS

2014 – 2018 Marie Curie Career Integration Grant (€100,000 fEC)
“Are Heat Shock Protein 90 (Hsp90) Co-chaperones Virulence Factors in the Human Fungal Pathogen *Candida albicans*?”

2014 – 2017 MRC (Grant Ref: MR/L018349/1 £599,338 fEC)
“Deciphering the *Candida albicans* Hsp90 Kinase Interactome and Elucidating its Role in Fungal Virulence”

2014 – 2017 BBSRC (Grant Ref: BB/L007886/1 £534,920 fEC)
“Comparing the Hsp90 Genetic Interaction Network Landscape Governing Fungal Life”

2013 – 2015 Royal Society Research Grant (£14,973)
“Does the Loss-of-Heterozygosity in Mitotic Diploids Enable Adaptation? Implications for Fungal and Cancer Therapies”

2010 – 2012 Postdoctoral Fellowship (\$50,000)
Ontario Ministry of Research and Innovation, Government of Ontario

2002 – 2004 PhD Fellowship (tuition and salary)
Duke University Program in Genetics and Genomics

2001 Undergraduate Research Fellowship for the United States (\$5,000)
German Academic Exchange Service (DAAD)

AWARDS & HONOURS

2018 American Society for Microbiology Travel Award

2012 International Society for Human and Animal Mycology
Young Investigator Award in Clinical Mycology (€4,000)

2012 Keystone Meeting Poster Award

2011 Eukaryotic Cell Young Investigator Award

2008 Genetics Society of America Travel Award

2007 Duke University Mycology Research Unit Travel Award

2006 Genetics Society of America Travel Award

2005 FEBS Advanced Lecture Course Tuition Scholarship

2004 Molecular Mycology Tuition Scholarship

2004 Summer Institute in Statistical Genetics Tuition Scholarship

INVITED AND SELECTED* ORAL PRESENTATIONS

- 2020 Mycology 2020*, London, UK (cancelled due to COVID-19)
- 15th European Conference on Fungal Genetics*
Sapienza University, Rome, Italy
- 2019 Keynote speaker Florey Institute Postgraduate Symposium
University of Sheffield, Sheffield, UK
- 2018 9th International Conference on the Hsp90 Chaperone Machine
Leysin, Switzerland
- Microbiology Society Annual Meeting
Birmingham, UK
- 14th ASM Conference on *Candida* and Candidiasis
Providence, USA
- 2016 Interdisciplinary Forum “Virulence of Phyto- and Human-Pathogenic Fungi”
Microbiology Institute, University Hospital Erlangen
Erlangen, Germany
- Royal Society Satellite Meeting “Tackling emerging fungal threats to animal health, food security and ecosystem resilience: The state of the art”
Kavli Royal Society Centre, Chicheley Hall, Newport Pagnell, UK
- Vice-Chancellor’s Research Day
University of Bath
- 2015 Department of Molecular Microbiology and Biotechnology
Tel Aviv University, Tel Aviv, Israel
- 19th Congress of the International Society for Human & Animal Mycology,
Melbourne, Australia
- 51st BSMM Annual Scientific Meeting
Aberdeen, UK
- College of Life and Environmental Sciences
University of Exeter, UK
- 2014 May Laboratory Retreat external speaker
Institute for Microbiology and Infection, University of Birmingham, UK
- Aberdeen Fungal Group Retreat external speaker
University of Aberdeen, UK
- 2013 Institute of Medical Sciences
University of Aberdeen, UK

- 2012 18th Congress of the International Society for Human & Animal Mycology
Young Investigator Award Lecture
Berlin, Germany
- 2012 Duke University Mycological Research Unit, Durham, USA
- 2011 FEBS Human Fungal Pathogens Meeting, Plenary Presentation
La Colle-sur-Loup, France
- 2009, 2011 Department of Molecular Genetics, University of Toronto, Canada
- 2008 The Whitehead Institute for Biomedical Research, Department of Biology
MIT, Cambridge, USA
- 2008 Department of Molecular Genetics, University of Toronto, Canada
- 2007 XXIII International Conference on Yeast Genetics and Molecular Biology*
Melbourne, Australia
- 2007 School of Molecular and Microbial Sciences, The University of Queensland
Brisbane, Australia
- 2005, 2007 Department of Molecular Genetics & Microbiology
Duke University Medical Center, Durham, USA
- 2006 Yeast Genetics and Molecular Biology Meeting, Princeton, USA
- 2004 Research Triangle Park Small Eukaryotes Meeting, Durham, USA
- 2001 Duke University Mycological Research Unit, Durham, USA

POSTER PRESENTATIONS

- 2014 12th ASM Conference on *Candida* and Candidiasis
New Orleans, USA
- 2012 Keystone Meeting Fungal Pathogens: From Basic Biology to Drug Discovery
Santa Fe, USA
- 2011 26th Fungal Genetics Meeting, Pacific Grove, USA
- 2008 Yeast Genetics and Molecular Biology Meeting, Toronto, Canada
- 2006 Yeast Genetics and Molecular Biology Meeting, Princeton, USA
- 2005 1st FEBS Advanced Lecture Course on Human Fungal Pathogens
La Colle-sur-Loup, France

PROFESSIONAL AFFILIATIONS

- 2014 – present British Society for Medical Mycology
- 2013 – present Microbiology Society

2012 – present	International Society for Human and Animal Mycology
2006 – 2019	Genetics Society of America
2004 – 2016	American Society of Microbiology
2005 – 2013	American Association for the Advancement of Science
2006 – 2012	Gesellschaft für Biochemie und Molekularbiologie e.V. FEBS Constituent Society

PROFESSIONAL PROFILES

- **ResearchGate** <http://bit.ly/1KtZKhX>
 - **ORCID** orcid.org/0000-0002-9528-1495
 - **Google Scholar** <http://bit.ly/1JEJk4P>
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Ad hoc REVIEWER ACITIVITES

2020	eLife, Medical Mycology (3x), Cell Stress & Chaperones
2019	Medical Mycology (2x), Scientific Reports
2018	Nature Communications, Medical Mycology, Genetics (2x), Nature Scientific Reports
2016	Fungal Genetics and Biology, Genetics (2x), Antonie van Leeuwenhoek, International Journal of Food Microbiology, Medical Mycology (3x)
2015	PLOS Genetics, PLOS Pathogens, Fungal Biology Reviews, Genetics, Medical Mycology (6x), Antonie van Leeuwenhoek, Cellular Microbiology
2014	PLOS Pathogens, Genome Research, Genetics, Eukaryotic Cell (2x), Heredity, European Biophysics Journal
2013	Eukaryotic Cell
2012, 2013	PLoS ONE
2011	Antioxidants & Redox Signalling
2008, 2009	Mycoses

BOARD & COMMITTEE MEMBERSHIPS

2020 – present	Member of the Infection & Immunity Research Network Steering Group University of Bristol
2019	“Human pathogenic fungi” session co-chair 30 th Fungal Genetics Meeting, Asilomar, USA

2018 – present	PLoS ONE Academic Editor
2018	Outer Board Assessor for Irish Research Council, Government of Ireland Post-graduate Scholarship Programme “Late Breaking Hot Topics” session co-chair 14 th ASM Candida meeting, Providence, USA
2016 – present	Deputy lead for the Infection & Immunity research theme BBSRC Pool of Experts Departmental Learning, Teaching, and Quality Control Committee Transforming Curricula and Assessment (TraCA)
2016	Search Committee for Prize Fellowship for the Milner Centre for Evolution Milner Centre for Evolution Executive Committee (Darwin Day organiser) Working group Research Staff Career Progression
2015 – present	F1000 Faculty Member in Microbial Growth & Development Medical Mycology Editorial Board
2015 – 2017	MRC BioMed DTP (Bath and GW4 partners) - operations lead for Bath CDT/DTP sub-committee operations group (as MRC DTP rep)
2015	“Animal-Fungal Interactions” session co-chair & poster judge 28 th Fungal Genetics Meeting, Asilomar, USA
2014	Search Committee for Lectureship in Biomedical Sciences Department of Biology & Biochemistry placement poster judge
2014 – present	Departmental Athena SWAN Self Assessment Team
2014 – 2015	Eukaryotic Cell Editorial Board

SERVICES & CONSULTATIONS

2020	<ul style="list-style-type: none"> • BBSRC panel C meeting
2019	<ul style="list-style-type: none"> • BBSRC panel C meeting
2017	<ul style="list-style-type: none"> • BBSRC panel D meeting • Member of departmental pitch panel for BBSRC, MRC, and EPSRC applications
2016	<ul style="list-style-type: none"> • BBSRC panel D meeting • Departmental peer review for BBSRC and ERC submissions
2015	<ul style="list-style-type: none"> • External scientific reviewer for draft of Screening Assessment Report on <i>Saccharomyces cerevisiae</i> F53, Health Canada, Government of Canada • Departmental peer review for Royal Society submission • Reviewer for research proposals submitted to the MRC and BBSRC • Reviewer for MRC Career Development Award • Participant of BioSciences Lecturer Research Focus Group Society of Biology

- 2014
 - Participant of MRC Strategic Review Workshop on Fungal Disease Research in the UK
 - Departmental peer review for BBSRC and ERC grant submissions
 - Reviewer for research proposal submitted to the BBSRC
 - Designed Infection & Immunity Theme poster
- 2013
 - Reviewer for research proposal submitted to the BBSRC
 - Assisted Bath's Research & Innovation Services with the development of a 'Pathways to Impact' tool kit

SUPERVISORY EXPERIENCE

- 2019 – 2020 2 Ms Students, 3 BSc students, 1 summer student
- 2016 – 2021 Julia Crunden (PhD Student)
Co-supervisors: Prof Christiane Berger-Schaffitzel (University of Bristol)
Prof Ken Haynes (University of Exeter)
Funding: GW4 MRC Doctoral Training Program
- 2016 – 2017 2 BSc students
- 2015 – 2018 Debra DeLoach (PhD Student)
Second supervisor: Prof Jean van den Elsen
Funding: self-funded, ERC
- 2015 – 2016 4 BSc students, 1 MRes student
- 2014 –2017 Dr Leenah Alaalm (Postdoctoral Research Associate)
Carolyn Williamson (Laboratory Technician)
Funding: MRC

Dr Kangzhen Dong (Postdoctoral Research Associate)
Dr Stephen Milne (Laboratory Technician)
Funding: BBSRC

Ms Naomi Lyons (PhD Student)
Second supervisor: Prof Laurence Hurst
Funding: University Research Studentship, ERC
- 2014 – 2015 3 BSc students, 1 MRes student
- 2013 – 2014 1 BSc student, 2 MSc students, 2 MRes students

MENTORING EXPERIENCE

- 2016 Nuffield placement student
- 2015 Year 12 student work experience (<http://bit.ly/ViiKMY>)

Career Luncheon Mentor at the 28th Fungal Genetics Conference

	Pacific Grove, USA
	In2Science summer student
2014	In2Science summer student (http://bit.ly/1SUqFci)
2012	Undergraduate Mentor Molecular Genetics Department, University of Toronto, Canada
2007	Undergraduate Mentor Howard Hughes Undergraduate Research Program Department of Molecular Genetics & Microbiology Duke University Medical Center, Durham, USA
2006	Undergraduate Mentor Institute for Genome Sciences & Policy Summer Program Department of Molecular Genetics & Microbiology Duke University Medical Center, Durham, USA
1997 – 2000	Mentor for visiting scholars and students Institute of Microbiology, Charité University Hospital, Berlin, Germany

STAFF DEVELOPMENT & COURSE WORK

2020	Digital Design Course for the delivery of online teaching
2017	Bath Course Section C (Curriculum Development)
2016	‘The Nuts and Bolts of Managing People’ Bath Course Section A (Teaching and supporting learning) ‘Saying No Positively’ ‘Mind mapping using MindGenius’ SDPR Training Course
2015	Invigilator’s Training Course Bath Course Section B (Academic practice at Bath) ‘The Seven Secrets of Highly Successful Research Students’
2014	BBSRC grant holder media training ‘Chairing Recruitment Panels’ ‘Navigating People’ ‘On Writing Quality Papers’ ‘Prize Fellows Networking’
2013	Bath Course Section D (Research management)
2005	FEBS Advanced Lecture Course on Human Fungal Pathogens La Colle-sur-Loup, France
2004	Molecular Mycology ‘Current Approaches to Fungal Pathogenesis’ Marine Biological Laboratory, Woods Hole, USA

2004 Summer Institute in Statistical Genetics
Modules: Microarray Analysis, Principles of Quantitative Genetics,
Introduction to Bioinformatics
North Carolina State University, Raleigh, USA

PUBLIC ENGAGEMENT

- 2017
- Interview with the British Science Association (<http://bit.ly/2msdx3k>)
 - Bath Science Cafe presenter
- 2016
- Royal Society Summer Exhibition volunteer
- 2015
- The Conversation article “Enemy within: the fungus that lives in your mouth and kills as many as MRSA” (<http://bit.ly/1fYSBg9>) (>12,400 reads)
 - BBSRC “My View” (<http://bit.ly/1GnVlOl>)
 - Fringe Arts Bath Ignites Research (<http://bit.ly/1yFOxUf>)
 - Collaboration with animation artist Tamara Webster (<http://bit.ly/1HMLBzN>)
- 2014
- Female scientist role model at “Counting on Girls Day” at Ralph Allen School
 - Presented research to 3. graders at Combe Down Primary School
- 2013
- Bath Ignite Talk (<http://bit.ly/1CE6ESq>)
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RESEARCH PUBLICATIONS

Total citations: 1417
h-index: 11

Alaalm, L., J. L. Crunden, M. Butcher, U. Obst, R. Whealy, C. E. Williamson, H. E. O’Brien, C. Schaffitzel, G. Ramage & **S. Diezmann**. 2020. A novel Hsp90 phospho-switch modulates virulence in the major human fungal pathogen *Candida albicans*.
doi: <https://doi.org/10.1101/2020.09.23.309831> (bioRxiv preprint server)

Lyons, N., I. Softley, A. Balfour, C. Williamson, H. E. O’Brien. A. C. Shetty, V. M. Bruno & **S. Diezmann**. 2020. Tobacco Hornworm (*Manduca sexta*) caterpillars as a novel host model for the study of fungal virulence and drug efficacy. **Virulence** 11(1): 1075-1089.

O’Meara T., A. Veri, E. Polvi, X. Li, S. F. Valaei, **S. Diezmann**, L. E. Cowen. 2016. Mapping the Hsp90 genetic network reveals ergosterol biosynthesis and phosphatidylinositol-4-kinase signaling as core circuitry governing cellular stress. **PLoS Genetics** 12(6):e1006142

Diezmann, S.*, M.D. Leach & L.E. Cowen. 2015. Functional divergence of Hsp90 genetic interactions in biofilm and planktonic cellular states. **PLoS ONE** 10(9):e0137947

*co-corresponding author

Diezmann, S., M. Michaut, R.S. Shapiro, G.D. Bader, L.E. Cowen. 2012. Mapping the

Hsp90 genetic interaction network in *Candida albicans* reveals environmental contingency and rewired circuitry. **PLoS Genetics** 8: e1002562.

Singh-Babak, S.D, T. Babak, **S. Diezmann**, J.A. Hill, J. L. Xie, Y.-L. Chen, S.M. Poutanen, R.P. Rennie, J. Heitman, L.E. Cowen. 2012. Global analysis of the evolution and mechanism of echinocandin resistance in *Candida glabrata*. **PLoS Pathogens** 8(5): e1002718.

Diezmann, S.* and F. S. Dietrich. 2011. Oxidative stress survival in a clinical *Saccharomyces cerevisiae* isolate is influenced by a major quantitative trait nucleotide. **Genetics** 188: 709-722.
*corresponding author

Diezmann, S.* and F. S. Dietrich. 2009. Population divergence and resistance to oxidative stress among clinical and wild *Saccharomyces cerevisiae* isolates. **PLoS ONE** 4: e5317.
*corresponding author

Al-Jawabreh, A., **S. Diezmann**, M. Müller, T. Wirth, L. Schnur, M. Strelkova, D. Kovalenko, S. Razakov, J. Schwenkenbecher, W. Presber, and G. Schönian. 2008. Identification of geographically distributed sub-populations of *Leishmania major* by microsatellite analysis. **BMC Evolutionary Biology** 8: 183-195.

Fraser, J.A., S.M.C. Lim, **S. Diezmann**, E.C. Wenink, C.G. Arndt, G.M. Cox, F.S. Dietrich, and J. Heitman. 2006. Yeast diversity sampling on the San Juan Islands reveals no evidence for the spread of the Vancouver Island *Cryptococcus gattii* outbreak to this local. **FEMS Yeast Research** 6: 620-624.

Fraser, J.A., S.S. Giles, E.C. Wenink, S.G. Geunes-Boyer, J.R. Wright, **S. Diezmann**, A. Allen, J.E. Stajich, F.S. Dietrich, J.R. Perfect, and J. Heitman. 2005. Same-sex mating and the origin of the Vancouver Island *Cryptococcus gattii* outbreak. **Nature** 437: 1360-1364.

Diezmann, S.*, C.J. Cox, G. Schönian, R.J. Vilgalys, and T.G. Mitchell. 2004. Phylogeny and evolution of medical species of *Candida* and related taxa: a multigenic analysis. **Journal of Clinical Microbiology** 42: 5624-5635.
*corresponding author

Fraser, J.A., **S. Diezmann**, R.L. Subaran, A. Allen, K.B. Lengeler, F.S. Dietrich, and J. Heitman. 2004. Convergent evolution of the chromosomal sex-determining regions in the animal and fungal kingdoms. **PLoS Biology** 2: 2243-2255.

REVIEW

Diezmann, S. 2014. Oxidative stress response and adaptation to H_2O_2 in the model eukaryote *Saccharomyces cerevisiae* and its human pathogenic relatives *Candida albicans* and *Candida glabrata*. **Fungal Biology Reviews** 28: 126-136

BOOK CHAPTER

Diezmann, S.* & L.E. Cowen. 2014. The *Candida albicans* Hsp90 chaperone network is environmentally flexible and evolutionary divergent. in “The Molecular Chaperones Interaction Networks in Protein Folding and Degradation” pp 185-206 **Springer New York**.

*co-corresponding author