

## ANNUAL DECLARATION OF INTERESTS (ADoI)

*(Please note that high quality of scientific expertise is by nature based on prior experience and that therefore having an interest does not necessarily mean having a conflict of interest)*

**Name:** BONSALL, Michael

**Title:** Prof

**Profession:** Professor of Mathematical Biology

**Current EFSA involvements:** Member-GMO WG on Gene drive (GMO)

Nature of Activities	Period	Organisation	Subject matter
<b>I. Financial investments</b>			NO INTEREST
<b>II. Managerial role</b>	04/2005 - now	-Name: St Peter's College	<p>St Peter's College is one of the Colleges that makes up the University of Oxford. It is a charity (mandated in UK legislation) and as such its charitable aims are outlined in a Royal Charter "to maintain and promote education, religion and learning for and among students...".</p> <p>Oversight of College is managed by the set of Fellows (academics) and this management is operationalized through the Governing Body.</p> <p>This Governing Body meets three times each term (24 times a year) each meeting lasting approx 2 hrs. Impact on annual earnings: &gt;25%</p>

<b>III. Member of a scientific advisory entity</b>	12/2007 - 11/2016	-Name: Advisory Committee for Releases to the Environment (DEFRA)	<p>The Advisory Committee on Releases to the Environment is independent scientific committee that through EU derivatives and national UK legislation is mandated to provide the UK government/ministers with advice on the environmental risks (to wider receiving environments/human health) of non-native and GM releases.</p> <p>I was a member of this committee from December 2007. - November 2016 Impact on annual earnings: &gt;0% and &lt;5%</p>
<b>IV. Employment</b>	04/2005 - now	-Name: University of Oxford	<p>The University of Oxford is dedicated to research and teaching. It was founded in the 11th century and boasts 900 years of continuous history in the teaching and research across all academic disciplines.</p> <p>I am employed by the University and hold a teaching and research position within the Department of Zoology. I hold the title of Professor in Mathematical Biology (Zoology Department) Impact on annual earnings: &gt;25%</p>
(Close family member)	07/2009 - now	-Name: Academy of Medical Sciences	<p>The Academy of Medical Sciences is the national academy for clinicians within the UK. It has charitable status (mandated in UK legislation). Annually it elects Fellows (scientists and clinicians) who support the role of the Academy.</p> <p>The core staff of the Academy run the day to day activities. My partner is employed as the Director of Medical Policy (since 2009) at the Academy of Medical Sciences Impact on annual earnings: &gt;25%</p>
<b>V. Occasional consultancy</b>	09/2018 - now	-Name: BBSRC, Biotechnology and Biological Sciences Research Council, Biotechnology and Biological Sciences Research Council, UNITED KINGDOM, Swindon	<p>Gene Drive Working Group member. This working group is an panel of independent experts providing BBSRC with advice and policy direction on the use of gene drive technologies. BBSRC want to create a positional statement on gene drive research so it relates to the research funding activities of the BBSRC. Impact on annual earnings: 0%</p>
	07/2015 - 12/2015	-Name: House of Lords Science and Technology Committee (HoL S&T), EN, London, UNITED KINGDOM	<p>Science advisor to House of Lords inquiry on GM Insects (Sept - Dec 2015) Impact on annual earnings: 0%</p>
<b>VI. Research funding</b>	10/2018 - now	-Name: Food Standards Agency (FSA), UK, London, UK	<p>FSA/BBSRC iCASE Studentship Award: Antimicrobial resistance in Campylobacter in the food chain.</p> <p>This project is focused on the bioinformatic analysis of Campylobacter sequences and investigation of antimicrobial resistance. The award supports a PhD student in my group. (Role: Supervisor)</p>
	10/2017 - now	-Name: BBSRC, Biotechnology and Biological Sciences Research Council, Biotechnology and Biological Sciences Research Council, UNITED KINGDOM, Swindon	<p>BBSRC iCASE Award: Insect Resistance Management</p> <p>This project is focused on the development of mathematical models. The award supports a PhD student in my group.</p> <p>It is joint grant between the University of Oxford and Oxitec Ltd. In the frame of a collaboration agreement between my employer, the University of Oxford, and Oxitec Ltd., Oxitec Ltd. acts as a partner in this project by providing information for some of our model developments. Oxitec Ltd., which is a SME that develops GM insects for different applications, is a spin-out company from the University of Oxford. The portfolio of share-holdings for spin-outs is managed by OSEM and currently holds (as of Feb 2015) 11.7% in Oxitec. All results of our research are unrestricted and can be published freely.</p>

	09/2017 - now	-Name: BBSRC, Biotechnology and Biological Sciences Research Council, Biotechnology and Biological Sciences Research Council, UNITED KINGDOM, Swindon	BBSRC Grant: Epidemiological consequences of reproductive senescence in a long-lived vector (2017 – 2020)  The funder had no involvement in the design of the project and we are free to publish findings from the project.
	09/2017 - now	-Name: National Science Foundation (USA)	NSF Grant: Drivers of Rarity in Annual Plants (2017 – 2021) This project is to develop a detailed understanding of the link between plant ecophysiology and plant dynamics. (Role: Co-Investigator) It is a joint project between the University of Tennessee, University of Georgia, Seton Hill University, Austin Peay State University and the University of Oxford  The funders had no involvement in the project design and we are free to publish the findings from this project
	10/2013 - 06/2018	-Name: Biotechnology and Biological Sciences Research Council	BBSRC iCASE Award: Insect Resistance Management  This project is focused on the development of mathematical models. The award supports a PhD student in my group.  It is joint grant between the University of Oxford and Oxtiec Ltd. In the frame of a collaboration agreement between my employer, the University of Oxford, and Oxitec Ltd., Oxitec Ltd. acts as a partner in this project by providing information for some of our model developments. Oxitec Ltd., which is a SME that develops GM insects for different applications, is a spin-out company from the University of Oxford. The portfolio of share-holdings for spin-outs is managed by OSEM and currently holds (as of Feb 2015) 11.7% in Oxitec. All results of our research are unrestricted and can be published freely.
	04/2016 - 10/2017	-Name: Defense Advanced Research Projects Agency (DARPA)	Defense Advanced Research Projects Agency (DARPA) funded a research grant on the economics of mosquito control. The aim was to develop framework(s) for the cost-effective implementation of mosquito controls. This involve the development of mathematical tools to evaluate the economic and ecological implications of transgenic mosquito control. As this was a stand-alone project (part of a general call - broad agency agreement) undertaken to investigate the economics of different types of transgenic mosquito control, DARPA (the funder) had no involvement in the project design or its implementation.
	02/2014 - 02/2017	-Name: Biotechnology and Biological Sciences Research Council	BBSRC grant: Insect resistance management (2014-2017)  This was a project to develop a range of mathematical models to explore GM insects in the mitigation of insect resistance management. It was joint grant between Imperial College, Oxtiec Ltd. and University of Oxford. In the frame of a collaboration agreement between my employer, the University of Oxford, and Oxitec Ltd., Oxitec Ltd. acts as a partner in this project by providing information for some of our model developments. Oxitec Ltd., which is a SME that develops GM insects for different applications, is a spin-out company from the University of Oxford. I do not receive any direct financial benefit from Oxitec. All results of our research are unrestricted and can be published freely.
	01/2012 - 05/2015	-Name: Natural Environment Research Council	NERC grant: Understanding bird community phylogenetics (Role: Co-Principal Investigator)
<b>VII. Intellectual property rights</b>			NO INTEREST

<b>VIII. Other memberships or affiliations</b>	10/2016 - now	-Name: Royal Society for Biology (UK)	<p>Fellow of the Royal Society of Biology.</p> <p>The Royal Society of Biology is a single unified voice for biology: advising Government and influencing policy; advancing education and professional development; supporting our members, and engaging and encouraging public interest in the life sciences. The Society represents a diverse membership of individuals, learned societies and other organisations.</p> <p>Individual members include practising scientists, students at all levels, professionals in academia, industry and education, and non-professionals with an interest in biology.</p> <p>Impact on annual earnings: 0%</p>
	01/2010 - now	-Name: British Society for Developmental Biology	<p>Member. The British Society for Developmental Biology promotes the science of developmental biology at all levels and present its views on key issues in developmental biology and science.</p> <p>Impact on annual earnings: 0%</p>
	01/2006 - now	-Name: Royal Statistical Society	<p>Fellow of Royal Statistical Society. The Royal Statistical Society promotes public understanding of statistics and provides professional support to users of statistics and statisticians.</p> <p>Impact on annual earnings: 0%</p>
	01/2001 - now	-Name: Ecological Society of America	<p>Member. The Ecological Society of America (ESA) is a nonpartisan, nonprofit organization of scientists founded in 1915 to: promote ecological science by improving communication among ecologists; raise the public's level of awareness of the importance of ecological science; increase the resources available for the conduct of ecological science; and ensure the appropriate use of ecological science in environmental decision making by enhancing communication between the ecological community and policy-makers.</p> <p>Impact on annual earnings: 0%</p>
	04/1998 - now	-Name: American Society of Naturalists	<p>Member. The aim of the American Society of Naturalists is to advance and to diffuse knowledge of organic evolution and other broad biological principles so as to enhance the conceptual unification of the biological sciences.</p> <p>Impact on annual earnings: 0%</p>
	01/1994 - now	-Name: Royal Entomological Society	<p>Fellow of the Royal Entomological Society. The Royal Entomological Society plays a major national and international role in disseminating information about insects and improving communication between entomologists.</p> <p>Impact on annual earnings: 0%</p>
	01/1992 - now	-Name: British Ecological Society	<p>Member. The vision of the British Ecological Society is to advance ecology and make it count.</p> <p>Impact on annual earnings: 0%</p>
<b>IX. Other relevant interest</b>			NO INTEREST

I hereby declare that I have read both the **Guidance Document on Declarations of Interests and the Procedure for identifying and handling potential conflict of interests** and that the above Declaration of Interests is complete.

**Date:** 06/01/2019

**Signature:**

**SIGNED**