



Targeted Call for Research into Biotoxin-related Illnesses in Australia (Biotoxin TCR)

Consultation Response Form

The purpose of this survey is to seek input from experts, research end-users and policy makers in the field of biotoxin-related illnesses. The information you provide will inform the design of this TCR, by helping NHMRC better understand the research gaps the TCR seeks to address. NHMRC will not share your responses with other respondents to this survey. Please provide your responses in the fields below.

Name	Julien Colangelo (President), Dr Claire Bird (Technical Group Coordinator), Dr Jason Green (Committee member) and Bryan Jepsen (Committee member) member)
Institution ¹	Indoor Air Quality Association Australia (IAQAA) <u>www.iaqaaustralia.org.au</u>
Position	Submitted by the President. Responses were provided by members of IAQAA from the following professional positions: Occupational Hygiene and Microbiology. Note that responders are not medically qualified, and provide comments based on their specific areas of expertise and limits of knowledge at the time of submission.
Affiliations (related to biotoxin/biotoxin-related illnesses research, impacted community, etc.)	All named contributors can operate in a function for evaluating and consulting on risk management, including health risks associated with water damaged buildings that may involve the impacted community. Contributors provide ongoing support through online support forums for impacted individuals in relation to testing and assessment of environmental data from the premises they occupy
Please describe any real or perceived conflicts of interests you may have to this TCR:	Contributors operate mould analytical laboratories and provide Consulting services around water damaged buildings, which may be seen to benefit from promoting testing of the indoor environment. All named contributors can operate in a function for evaluating and consulting on risk management, including water damaged buildings. However, our roles under IAQAA should not conflict with the review.

¹ Leave blank if the responses are your personal views and not that of your institution, organisation or agency.





The responses below will inform development of NHMRC's TCR into Biotoxin-related Illnesses in Australia.

We suggest not exceeding **250 words** (1/2 page) per answer.



Australian Government National Health and Medical Research Council

	 Evidence of exposure to unacceptable levels of mould that may allow an accurate diagnosis to be made for example differentiating CIRS from other similar illnesses. Evidence of neglect or successful maintenance of mould rented properties where tenants report CIRS symptoms allowing faster resolution of disputes which can increase stress, anxiety and consequently CIRS-like symptoms. Rapid diagnosis and new treatment options may be applicable to dysbiotic (imbalanced) human microbiomes using for example probiotics, dietary modification or faecal transplant.
What research, if any, is already underway or planned to address these gaps and how could a TCR best complement these activities?	Although IAQAA members have academic and practical knowledge of water damaged buildings and the effects of mould exposure. To our understanding none of our members are involved in active studies to do with this matter. A full literature review would be required to cover all research and is not a suitable remit for this response. Key funding and research bodies researching the area include: The Albert Sloane Foundation (US) Purdue University
What are the challenges in addressing the need for research into these conditions?	 Identifying staff and students with a broad-based background suitable to have an overview of the complex processes involved in developing CIRS-like symptoms. Clinically isolating subjects of their contributing factors – environmental, diet, lifestyle, genetic influence, sensitivities
 What research areas are likely to: a. reduce the impact of biotoxin-related illnesses on affected individuals and communities b. assist health services to manage these health issues, and/or enable policy makers to make informed decisions? 	 A + B - Epidemiology. Toxicology. Microbial Ecology. Human Genetics. Microbiome/Mycobiome research. A - Practical control strategies to prevent and mitigate risk causing exposures. A - Safe and easily implemented strategies for symptom management and recovery that can be undertaken with general medical guidance.
	B - Medical research into suitable diagnosis and medical interventions for treatment. B – The impact environmental exposures have on human health

