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Research Interests: My laboratory is interested in understanding the key roles played by zinc (and other metals such as iron) in both “normal” and “pathological” ageing, with a specific focus on their role in various brain functions including critical endpoints such as learning and memory. We have a keen interest in a number of indications. These include age-related cognitive decline, Alzheimer’s disease, Frontotemporal dementia and traumatic brain injury.

Through close collaboration with both academic and industry partners we are exploring not only how zinc and iron are involved in the initiation and potentiation of disease pathways, but how they themselves may be therapeutic targets. We also continue to explore other pharmacological approaches that may modulate specific disease-relevant pathways. Thus, we hope to translate our basic science into effective therapeutics for many of these devastating conditions.