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**Effects of maternal cigarette smoke  
exposure on brain health in offspring**

We do not understand well how maternal smoking and secondhand smoke exposure during pregnancy can cause lifelong adverse effects in the offspring, especially in their neurological function. Maternal cigarette smoke exposure is a risk factor for the shutdown of blood and oxygen supply to the brain. This can lead to several functional defects, including problems with movement, sensation, strength, and thinking, increasing the financial burden of both the family and government. My work aims to understand how maternal cigarette smoke exposure affects brain health, to allow the discovery of therapeutic targets for potential interventions. In this talk, I will present my latest findings in a mouse model of maternal cigarette smoke exposure carried out during my PhD.



Yik Lung Chan is a recipient of a Royal Society of NSW Scholarship Award, 2017.