This Physiological Society Annual GL Brown Prize lecture will focus on the inherited disease cystic fibrosis (CF), where thick sticky mucus blocks the lungs and bowel, leading to breathing difficulties and problems digesting food. Over thirty years ago, the faulty gene responsible for CF – encoding the CFTR ion channel - was identified. This lecture will highlight physiology research that has been crucial to understanding CFTR dysfunction and the subsequent development of precision medicines targeting the root cause of the disease, which are transforming the lives of people with CF today.

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