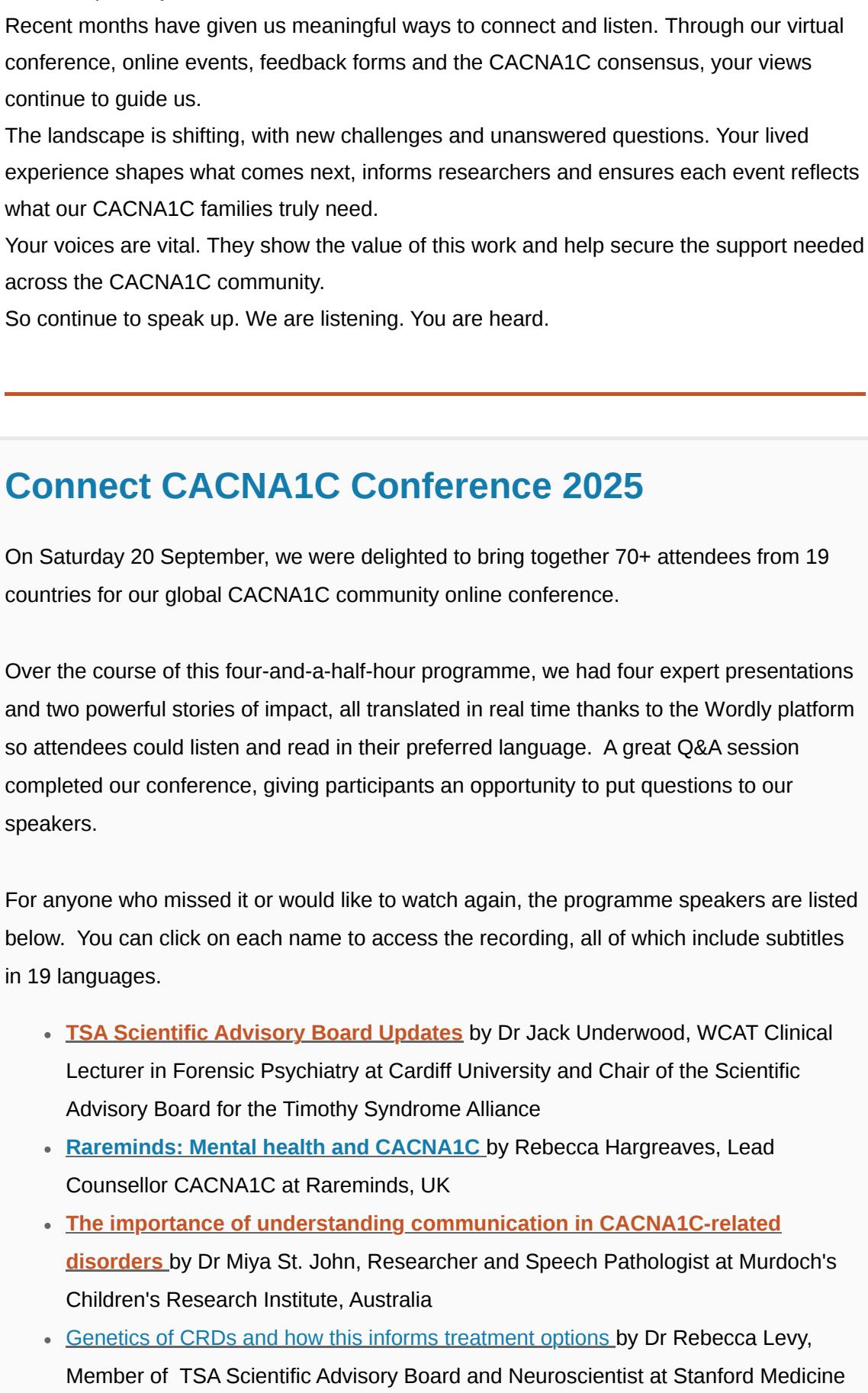




Timothy Syndrome Alliance

CACNA1C



We Hear You...

The leaves are changing colour and there is more of a chill in the air, so it must be time for our next quarterly newsletter.

Recent months have given us meaningful ways to connect and listen. Through our virtual conference, online events, feedback forms and the CACNA1C consensus, your views continue to guide us.

The landscape is shifting, with new challenges and unanswered questions. Your lived experience shapes what comes next, informs researchers and ensures each event reflects what our CACNA1C families truly need.

Your voices are vital. They show the value of this work and help secure the support needed across the CACNA1C community.

So continue to speak up. We are listening. You are heard.

Connect CACNA1C Conference 2025

On Saturday 20 September, we were delighted to bring together 70+ attendees from 19 countries for our global CACNA1C community online conference.

Over the course of this four-and-a-half-hour programme, we had four expert presentations and two powerful stories of impact, all translated in real time thanks to the Wordly platform so attendees could listen and read in their preferred language. A great Q&A session completed our conference, giving participants an opportunity to put questions to our speakers.

For anyone who missed it or would like to watch again, the programme speakers are listed below. You can click on each name to access the recording, all of which include subtitles in 19 languages.

- [TSA Scientific Advisory Board Updates](#) by Dr Jack Underwood, WCAT Clinical Lecturer in Forensic Psychiatry at Cardiff University and Chair of the Scientific Advisory Board for the Timothy Syndrome Alliance
- [Rareminds: Mental health and CACNA1C](#) by Rebecca Hargreaves, Lead Counsellor CACNA1C at Rareminds, UK
- [The importance of understanding communication in CACNA1C-related disorders](#) by Dr Miya St. John, Researcher and Speech Pathologist at Murdoch's Children's Research Institute, Australia
- [Genetics of CRDs and how this informs treatment options](#) by Dr Rebecca Levy, Member of TSA Scientific Advisory Board and Neuroscientist at Stanford Medicine Children's Health, USA
- [Story of Impact: Linzie - she's not one in a MILLION, she's one in 8.2 BILLION](#) by Jill Witt, Parent of Linzie, USA
- [Diverse Effects of Timothy Syndrome Variants on Channel Function](#) by Dr Ivy Dick, Associate Professor at School of Medicine, University of Maryland, USA
- [Story of Impact: Rare but Loud: giving every voice a place to shine](#) by Gemma Duncan, Parent of Noah

Following on from our Conference, we had a further live presentation in mid-October:

- [Cognition and CACNA1C](#) by Dr Amy Arnsten, Albert E. Kent Professor of Neuroscience & Professor of Psychology, and Member of the Kavli Institute of Neuroscience, Yale University, USA.

Joined by 20+ attendees from 10 countries, Dr Arnsten spoke about new research findings of the importance of CACNA1C to the cognitive functioning of the prefrontal cortex. She outlined the numerous functions of the prefrontal cortex in humans, including language, working memory, abstract reasoning, social cognition, the executive functions, and top-down control, and talked about the narrow 'inverted-U' relationship between CaV1.2 and prefrontal function. She has found that CaV1.2 are essential to prefrontal function, but that excessive actions, as occurs with stress, impairs prefrontal function. This may explain why either loss- or gain-of-function mutations in CACNA1C impair prefrontal cortical abilities.

In late September, there was a [Q&A with Dr Miya St John](#) following on from her talk at our Conference. To protect the personal information of attendees, this Q&A session was not recorded. Instead, we have prepared a [summary of the key questions and answers](#).

We need your voice...

Please tell us what you thought about the conference and the recordings. Your feedback helps us create future events that are relevant, engaging, and meaningful to you. As we rely 100% on grants and donations, this feedback also helps us share how these conferences and events benefit you.

[Click here to share your feedback and help shape what comes next.](#)

REGISTER YOUR INTEREST TO ATTEND

Connect CACNA1C In-Person Global Network Conference

22/23 July 2026

@ Cardiff, UK

We're thrilled to announce that the next Connect CACNA1C Global Network Conference will be held 22-23 July 2026 in Cardiff, UK. This inaugural in-person event aims to unite all those committed to improving the lives of individuals with CACNA1C-Related Disorders and Timothy Syndrome.

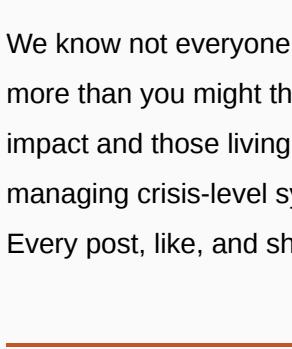
But why travel all the way to the UK? Because there is so much more than the conference itself.

Team TSA are hard at work already making arrangements, so keep an eye on your inbox, our social media profiles and these newsletters for further details about the conference programme, registration, hotel bookings, travel bursaries/ assistance and childcare.

[Click here to register your interest in attending](#)

What's New?

We've Hired...



a Research and Public Engagement Officer, adding another vital part to the engine room of our charity. Introducing [Amy Houseman](#) who will help develop and oversee communications and engagement with all our key international stakeholders, such as researchers, clinicians, healthcare professionals, our CACNA1C community and the wider public.

Amy has a PhD in Rare Disease Genetics from Cardiff University. For her PhD, she analysed the DNA sequences from over 300 patients with colorectal polyposis, a rare disease that, if left untreated, can develop into bowel cancer. Amy searched for pathogenic variants in known and new genes to determine how some patients may have a genetic predisposition to bowel cancer. Her work has led to the identification of a promising candidate gene that may play a role in inherited bowel cancer, representing a step towards improving diagnosis and personalised care for those at-risk patients.

Amy has previously volunteered with Unique RareChromo to create leaflets for rare disorders, the European Journal of Human Genetics to help with their engagement of newly published articles and has organised numerous science events for both the public and researchers. She has also been all the way to Shanghai for her placement year in genomics, too!

Amy hopes she can make a difference to patients and families with CACNA1C variants through organising communication and engagement activities, liaising with researchers, and helping with the research portal! She will help raise the profile of Timothy Syndrome, and CACNA1C-related disorders and also help coordinate global research efforts, knowledge-sharing, collaboration and accelerate patient prioritised research.

This appointment has been enabled by our RareAsOne multi-year funding from the Chan Zuckerberg Initiative (CZI).

Why support TSA?

- Because we're not filling a gap. We're building the system.
- Because families and scientists deserve to work side-by-side.
- Because what's rare to the world is everything to us.
- Because with you, the impossible becomes possible.

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Team TSA

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