Alberta Health Services
Glenrose Rehabilitation Hospital

Research, Innovation & Technology Development

"Joining State-of-the-Art Research with State-of-the-Art Care"

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Dr. Streimer's primary research interests are the cognitive neuroscience of attention, perception and visuomotor control. He studies these topics in healthy individuals and neurological patients using a combination of behavioural testing, kinematic recording, brain imaging (MRI and fMRI) and non-invasive brain stimulation (tDCS).

Research Interests:

- The use of prism adaptation to reduce symptoms of spatial neglect.
- The effects of cerebellar brain damage on cognitive and motor functions.
- Implicit visual and motor processing in patients with damage to visual cortex.

Clinical Implications of Research:

Dr. Streimer's research aims to better understand the effects of brain damage on visual and motor functions in order to enhance patient diagnosis and rehabilitation.

Recent Publications

Striemer CL, Enns JT & Whitwell RL. (2019). Visuomotor adaptation in the absence of input from early visual cortex. *Cortex*. https://doi.org/10.1016/j.cortex.2019.01.022

Striemer CL Cantelmi D, Cusimano M, Danckert J & Schweizer T. (2015). Deficits in reflexive covert attention following cerebellar injury. *Frontiers in Human Neuroscience*, 9, article 428.

Striemer CL, Chouinard PA, Goodale MA & de Ribaupierre S. (2015). Overlapping neural circuits for visual attention and eye movements in the human cerebellum. *Neuropsychologia*, 69, 9-21.

Striemer CL, Ferber S & Danckert J. (2013). Spatial working memory deficits represent a core challenge for rehabilitating neglect. *Frontiers in Human Neuroscience*, 7, article 334.

Striemer CL & Danckert J. (2010). Through a prism darkly: re-evaluating prisms and neglect. *Trends in Cognitive Sciences*. 14(7), 308-316.

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