

Special Issue

Corneal Confocal Microscopy and the Nervous System

Message from the Guest Editors

The study of human corneal nerve morphology has previously been limited by the necessity of ex vivo analysis and the rapid degeneration of corneal nerves after death. However, the advent of corneal in vivo confocal microscopy (IVCM) has enabled rapid non-invasive imaging of corneal nerve fibre bundles and allowed a correlation with peripheral nerves. IVCM is clinically used to assess corneal dystrophies, herpetic infections following corneal surgery, and other ocular surface diseases. The application of IVCM has gained traction beyond ophthalmology, including in evaluating idiopathic small fibre neuropathy, Fabry disease, Charcot-Marie-Tooth disease, auto-immune neuropathy, HIV-associated peripheral neuropathy, and diabetic peripheral neuropathy. This Special Issue aims to highlight recent advances and explore the potential of IVCM in clinical diagnosis and monitor peripheral neuropathy due to various diseases and conditions to contribute towards clinical knowledge and informed clinical decision making.

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