## Insights into Corneal Neuropathic Pain: Unraveling the Neurophysiological Mechanisms

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## **Abstract**

## Introduction

Corneal neuropathic pain, a debilitating condition resulting from damage or dysfunction of corneal nerves, presents a signi cant challenge in ophthalmology and pain management. Patients su ering from corneal neuropathic pain o en describe symptoms such as persistent burning, stinging, and foreign body sensation, severely impacting their quality of life. Understanding the neurophysiological mechanisms underlying this condition is crucial for developing e ective treatments and improving patient outcomes. Corneal neuropathic pain can be central, peripheral or have both central and peripheral components. Corneal neuropathic pain is a complex process involving di erent cell types and molecules; nerves, dendritic cells, neurokines, neuropeptides, and axon-guidance molecules which causes a high level of sensory rearrangement. ese processes emanating in corneal neuropathic pain is not well understood warranting further studies to ascertain appropriate pharmacotherapeutics required in speci c clinical scenarios [1]. is paper reviews the current understanding of the neurophysiological pathways of corneal neuropathic pain and current state of its neuropharmacological management.

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Citation: Zhou M (2024) Insights into Corne	al Neuropathic Pain: I	Unraveling the Neuro	ophysiological Mechai	nisms . J Clin Exp N	euroimmunol, 9: 227