Implen Prof Beer's Journal Club | Feb Issue, 2026

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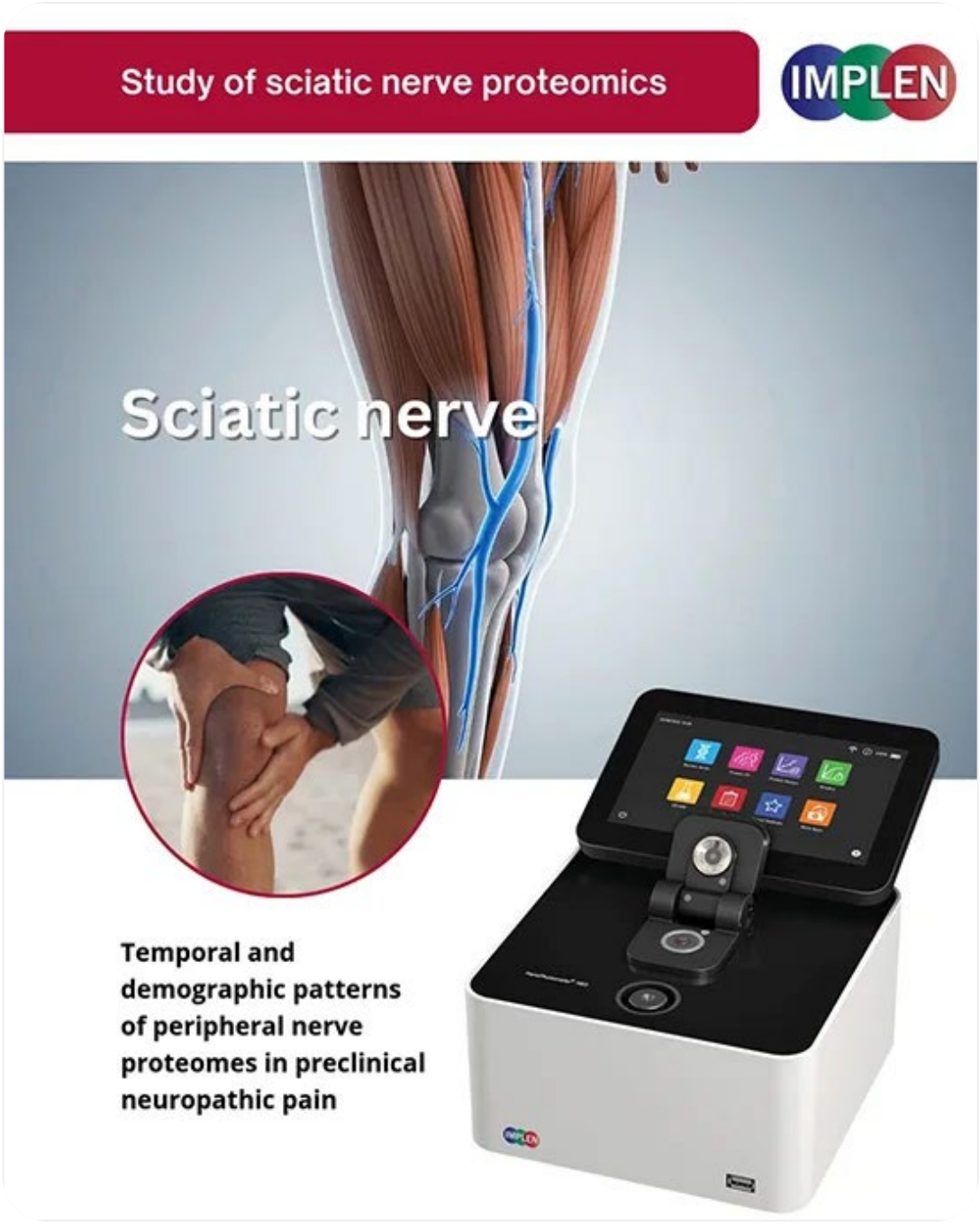

Longitudinal characterization of proteome dynamics after sciatic nerve injury

In a recent study published in Biomedicine & Pharmacotherapy, a group at the University of Vienna present a

longitudinal study of sciatic nerve proteomics across age and sex to provide a framework for identifying therapeutic targets in nerve injury. The group used the Implen NanoPhotometer® N60 to measure protein concentration of sciatic nerve tissue samples, then for downstream peptide concentration measurement after digestion. The data reveal sex- and age-modulated changes after sciatic nerve injury in immune processes and metabolic pathways, as well as transcriptional remodeling, providing important insights into nerve injury-associated neuropathy.

#Implen #NanoPhotometer #Spectrophotometer #ProteinQuantification #BiomedicalResearch

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Investigating cacao seed lipid biosynthesis

Join us for a Valentine's Day choc talk In an article published in Scientific Reports, lipid biosynthesis of cacao seeds—an important component of chocolate—was investigated using biochemical and transcriptomic methods. An Implen NanoPhotometer® was used to assess RNA purity for utilization in downstream qRT-PCR analysis. The results show differences in lipid accumulation rates and gene expression between high and low lipid content cacao accessions, which potentially explains overall differences in lipid content.

#Implen #NanoPhotometer #Spectrophotometer #RNAQuantification #Research

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NRF2 activation and immune cell suppression in the tumor microenvironment

A recent publication from researchers at @Tohoku University describes an investigation of the effect of NRF2 activation on immune suppression in the tumor microenvironment. The NanoPhotometer® NP80 was used to measure RNA concentration and assess RNA purity for qRT-PCR gene expression analysis and RNA-seq, respectively. The results show that in syngeneic murine cancer models, NRF2 hyperactivation suppresses immune cell infiltration into tumors, providing insights into the mechanism by which NRF2 activation contributes to cancer malignancy.

#Implen #NanoPhotometer #Spectrophotometer #RNAQuantification #LifeScienceResearch"

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Colony-level mechanisms of ambrosia beetles against spread of infectious disease

A study from the @University of Illinois Chicago describes spatial protective mechanisms utilized by beetle colonies to limit the spread of infectious disease. DNA was isolated from a single fungal colony and concentration was measured using the NanoPhotometer® NP80. The results suggest that spatial bias of diseased beetles reduces infection risk and support colony resistance. #Implen #NanoPhotometer #Spectrophotometer #DNAQuantification #BiologicalResearch

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