Feb 2, 2022

TG-Bug UPDATE

FOR: GitHub

S. C. Pries

Key websites for researching ALS, Parkinson's Disease (PD), MS

JAMA

<https://store.jamanetwork.com/>

LANCET, free registration, many specialties to select

Elsevier Alerting service

<https://www.thelancet.com/>

UC-San Diego: videos, conferences, research trials

[https://health.ucsd.edu/specialties/neuro/Pages/default.aspx](https://health.ucsd.edu/specialties/neuro/Pages/default.aspxhttps://health.ucsd.edu/specialties/neuro/Pages/default.aspx)

Neurology Solutions Movement Disorders Center

<https://www.neurologysolutions.com/resources/>

https://www.webmd.com/

Ohio State Med School

[https://wexnermedical.osu](https://wexnermedical.osu/).

USA National Library of Medicine

<https://www.ncbi.nlm.nih.gov/pmc/>

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Recent finds

A hyper-phosphorylated, ubiquitinated and cleaved form of TDP-43—known as pathologic TDP43—is the major disease protein in ubiquitin-positive, tau-, and alpha-synuclein-negative frontotemporal dementia (FTLD-TDP, previously referred to as FTLD-U) and in amyotrophic lateral sclerosis (ALS).

[https://en.m.wikipedia.org/](https://en.m.wikipedia.org/wiki/TAR_DNA-binding_protein_43" \l "Clinical_significance)

Prize winner uncovers how microbiome can combat neurodegeneration

[https://www.drugtargetreview.c](https://www.drugtargetreview.com/news/95438/prize-winner-uncovers-how-microbiome-can-combat-neurodegeneration/)

The brain is indeed a target for treating ALS (amyotrophic lateral sclerosis), Northwestern Medicine scientists have discovered.

<https://news.northwestern.edu/stories/2021/12/als-therapy-should-target-brain-not-just-spine/>

A new approach to gene therapy provides hope to those living with incurable neurologic disorder  
https://wexnermedical.osu.edu/departments/innovations/neuronews/gene-therapy-new-approach?utm\_source=twitter&utm\_medium=paid-social&utm\_campaign=med\_national-reputation\_fy22\_corp

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[https://en.m.wikipedia.org/wiki/TAR\_DNA-binding\_protein\_43#Clinical\_significance](https://en.m.wikipedia.org/wiki/TAR_DNA-binding_protein_43" \l "Clinical_significance)

The structure, function and evolution of proteins that bind DNA and RNA | Nature Reviews Molecular Cell Biology

TDP43 - TAR DNA-binding protein 43 - Homo sapiens (Human) - TDP43 gene & protei

[https://www.uniprot.org/unipro](https://www.uniprot.org/uniprot/A0A0A0N0L3)

New therapy halts progression of Lou Gehrig's

https://www.eurekalert.org/new

Antiparasitic effects of Zingiber officinale (Ginger) extract against Toxoplasma gondii

https://www.sciencedirect.com/

IN VIVO EFFECT OF SOME HOME SPICES EXTRACTS ON THE TOXOPLASMA GONDII TACHYZOITES

[https://www.ncbi.nlm.nih.gov/p](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3377031/)

# Single-Dose Pharmacokinetics and Pharmacodynamics of IPX203 in Patients With Advanced Parkinson Disease: A Comparison With Immediate-Release Carbidopa-Levodopa and With Extended-Release Carbidopa-Levodopa Capsules

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7654938/

# Conversion to IPX066 (Rytary) from Standard Levodopa Formulations in Advanced Parkinson’s Disease: Experience in Clinical Trials

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4927929/>

Neurophysiological Changes Induced by Chronic Toxoplasma gondii Infection

https://www.ncbi.nlm.nih.gov/p

[The effect of low-frequency vibration on GABA metabolism in brain structures] – PubMed

https://pubmed.ncbi.nlm.nih.go

Toxoplasma bradyzoites exhibit physiological plasticity of calcium and energy stores controlling motility and egress | eLife

https://elifesciences.org/arti

Prion Disease

https://18kxerroa80uqzne1b7qmo

New Drug Targets for AD, ALS, and Parkinson's Revealed by Brain Proteome Atlas

https://www.clinicalomics.com/als-and-parkinsons-

# Ion channel dysfunction and altered motoneuron excitability in ALS (2020)

https://www.ncbi.nlm.nih.gov/

# Voltage-Dependent Sodium Channels in Spinal Cord Motor Neurons Display Rapid Recovery From Fast Inactivation in a Mouse Model of Amyotrophic Lateral Sclerosis

[https://journals.physiology](https://journals.physiology/)[.](https://journals.physiology.org/doi/full/10.1152/jn.00566.2006)

[https://pubmed.ncbi.nlm.nih](https://pubmed.ncbi.nlm.nih/)[.](https://pubmed.ncbi.nlm.nih.gov/16899637/)