



Novel Therapeutic Inducible Exosome (iExo) Platform for Regenerative Medicine

Institute of Cellular and System Medicine
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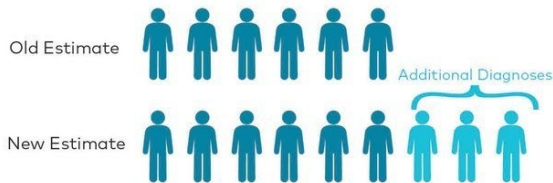
Institute of Biotechnology and Pharmaceutical Research
National Health Research Institutes

Unmet Medical Need

INCIDENCE RATE OF PARKINSON'S DISEASE INCREASES IN THE U.S.

New Parkinson's Foundation-Backed Study Shows the Incidence of Parkinson's Disease (PD) in the U.S. Totals Nearly 90,000 Diagnoses Annually, a Rate 1.5 Times Higher Than Previous Estimates of 60,000 Diagnoses Annually

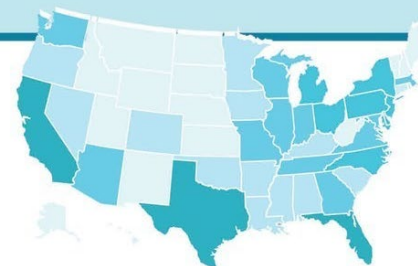
EVERY 6 MINUTES, SOMEONE IS DIAGNOSED WITH PD.



Each person in the chart represents 10,000 people diagnosed with PD each year.

NEW PD INCIDENCE IS 50% HIGHER THAN PREVIOUS ESTIMATES.

PD INCIDENCE ESTIMATES ARE HIGHER IN MALES AS COMPARED TO FEMALES OF ALL AGES.

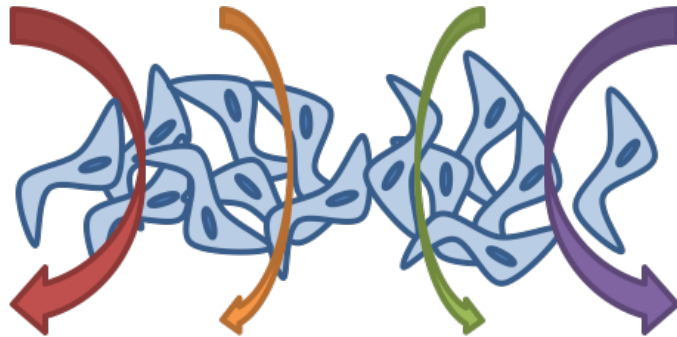


PD INCIDENCE RATES ARE HIGHER IN CERTAIN GEOGRAPHIC REGIONS.

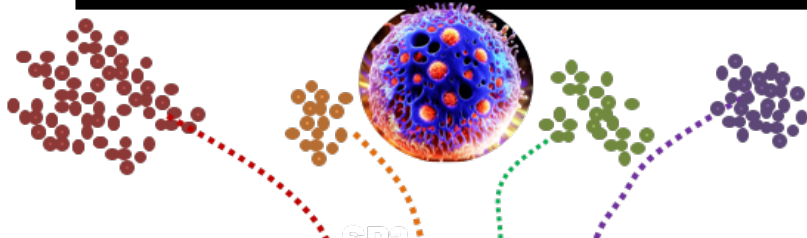
- The "Rust Belt" (parts of the U.S. previously dominated by industrial manufacturing)
- Southern California
- Southeastern Texas
- Central Pennsylvania
- Florida

Our Design for PD treatment

NHRI Signaling Modulator #1 NHRI Signaling Modulator #2 NHRI Signaling Modulator #3 NHRI Signaling Modulator #4



NHRI's Novel Inducible Exosomes (iExo)



"Omics -Profiling" of exosome contents



The degeneration of the dopaminergic neurons in the brain is thought to play a key role in the development of Parkinson's disease.

Our induced exosome (iExo) can potentiate the growth of dopamine neurons.

Product Profile

Key Features

- *NHRI holds the design and synthesis of novel exosome inducers as such can direct the regulated sorting of relevant bioactive cargos into the collected exosomes*
- *Platform was implemented with Deep Learning/AI capacity*

Pharmaceutical Development

- *Opportunity for large-scale bioproduction of inducible exosomes*

Market Positioning

The iExo harness intrinsic stemness transferring from respective mesenchymal stem cells and such MSC-derived iExo can be employed as regeneration medicine for several unmet medical needs in area of brain associated diseases.