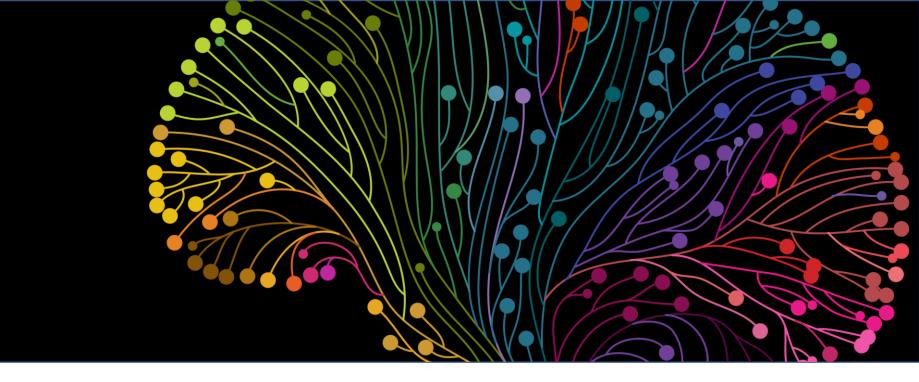


Biobanking at NINDS: BioSEND and NHCDR

Price, R.C.; Swanson-Fischer, C.
National Institute of Neurological Disorders and Stroke



Why Biobanking? Biobanking efforts at NINDS promote the development of promising diagnostic and progression biomarkers, as well as provide well characterized cell sources to both academic and industry investigators worldwide to advance the study of neurological disorders.





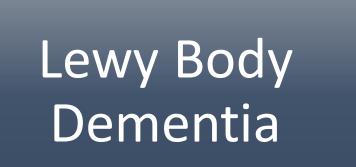
Housed at Indiana University Genetics Biobank (IUGB), BioSEND banks, maintains, and distributes biospecimens collected through studies supported by or conducted in collaboration with NINDS, the majority of which are linked with clinical and phenotypic data.



What is currently available at BioSEND?

Parkinson's Disease





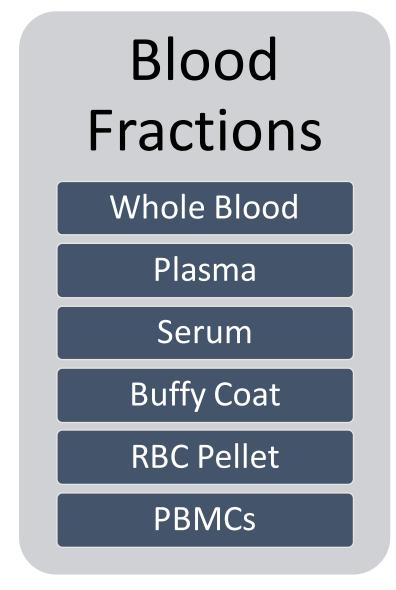
Huntington's Disease

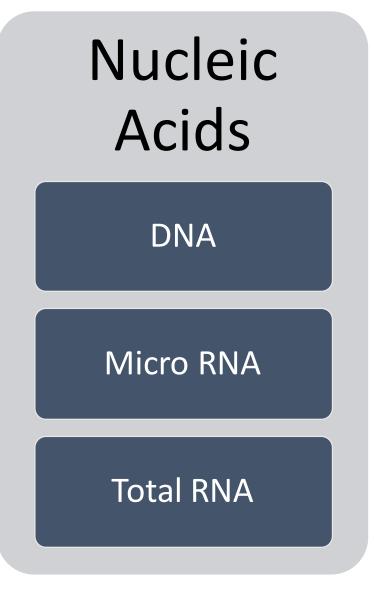


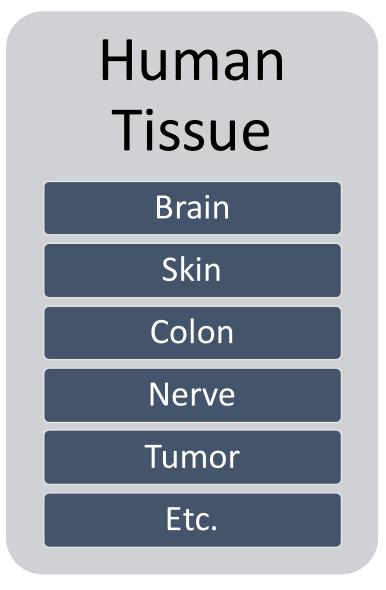


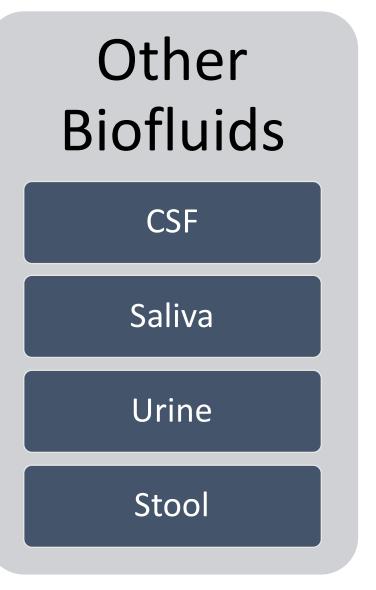












How can BioSEND benefit your research?



Site requests kits



Samples collected at study site



Samples accessioned, processed, and stored at IU



Inventory uploaded to searchable catalog



Samples distributed for analysis



Results shared with research community

Current BioSEND collaborations











Housed at Sampled in coordination with Rutgers University, The NINDS Human Cell and Data Repository (NHCDR) banks, maintains, and distributes fibroblasts and induced pluripotent stem cells (iPSCs) from NINDS mission-relevant disorders.

What is currently available at NHCDR?

Disease Collection	Fibroblasts	iPSC	Edited iPSC
Alzheimer's Disease	4	0	0
Amyotrophic Lateral Sclerosis	19	51	7
Amyotrophic Lateral Sclerosis, Controls	0	8	0
Amyotrophic Lateral Sclerosis, Frontotemporal Degeneration	0	1	0
Ataxia-Telangiectasia	0	4	0
Controls	11	28	0
Controls, Huntington's Disease	8	9	0
Controls, Parkinsonism	1	0	0
Dystonia	91	0	0
Dystonia, Parkinsonism	1	0	0

Disease Collection	Fibroblasts	iPSC	Edited iPSC
Frontotemporal Degeneration	19	68	8
Frontotemporal Degeneration, Parkinsonism	4	3	2
Huntington's Disease	19	29	3
Lewy Body Dementia	0	26	0
Lewy Body Dementia, Parkinsonism	0	3	0
Mild Cognitive Impairment	0	2	0
Myotonic Dystrophy	0	23	0
Parkinsonism	94	59	11
Spinal Muscular Atrophy	0	3	0
Spinal-Bulbar Muscular Atrophy	0	7	0

How can NHCDR benefit your research?

Process whole blood to cryopreserved lymphocytes (CPLs)

Process skin biopsies to fibroblast cell lines (FCLs)

Reprogram CPLs, FCLs, and lymphoblastoid cell lines (LCLs) into iPSC

Edit iPSC lines

Maintain a comprehensive catalog and ordering platform

Current NHCDR collaborations







For more information on research and collaboration opportunities, contact: Rebecca Price, rebecca.price@nih.gov