

The NINDS Repository Biomarkers Discovery Collection: A Public Resource of Biomaterials for Neurodegenerative Disease Research

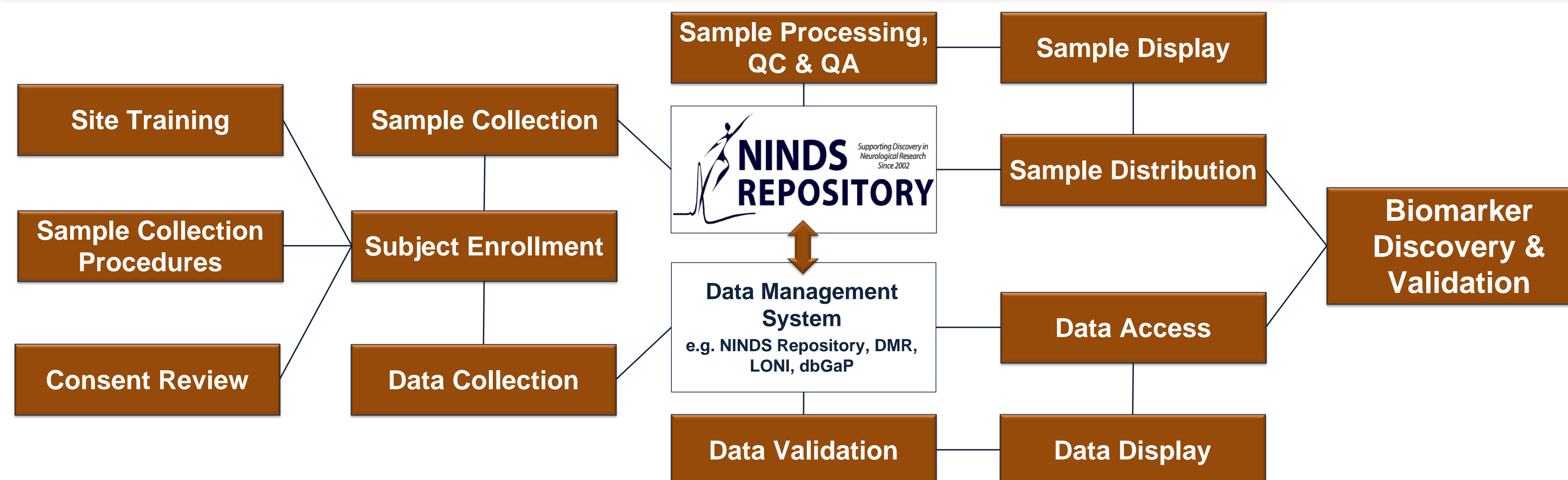
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1) The NINDS Repository, Coriell Institute for Medical Research, Camden, NJ; 2) National Institute for Neurological Disorders and Stroke-NIH, Bethesda, MD; 3) Michael J Fox Foundation, New York, NY.

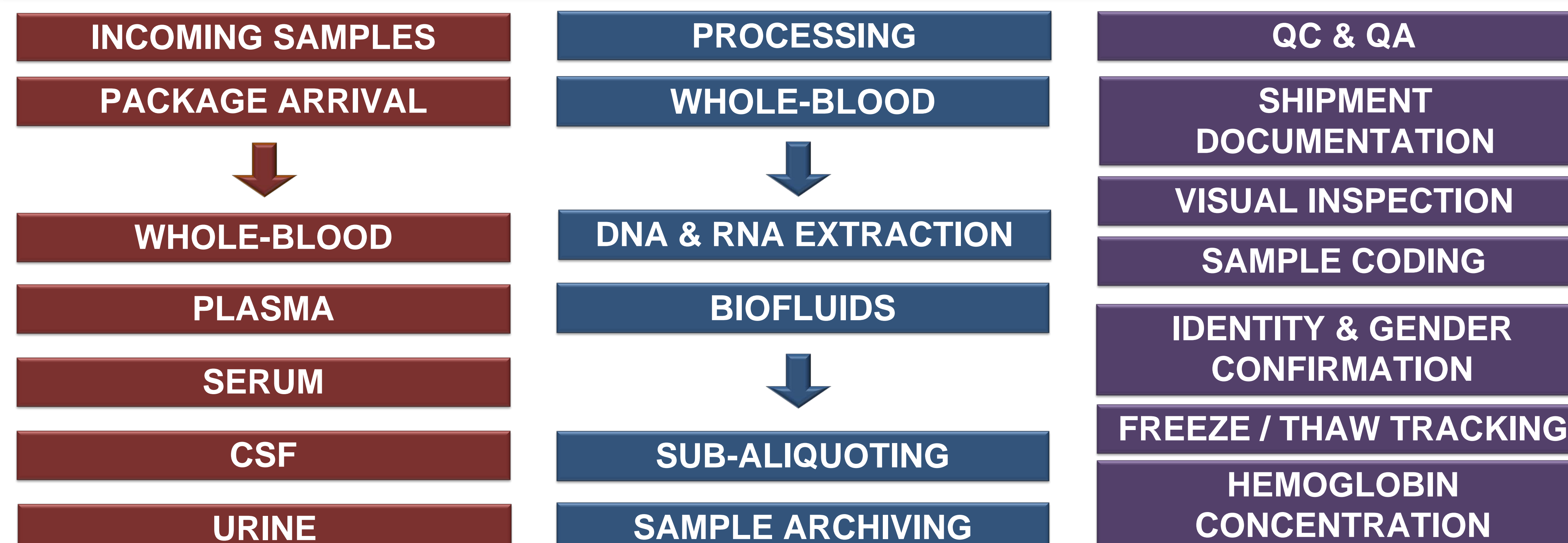
NINDS REPOSITORY

- Established in 2002 by the National Institute of Neurological Disorders and Stroke (NINDS) as a public resource
- Online catalog: <http://ccr.coriell.org/NINDS>
- Biospecimens from >44,000 unique individuals
- Biospecimens include: DNA, RNA, lymphoblastoid cell lines (LCL), fibroblasts, induced pluripotent stem cells (iPSC), plasma, serum, cerebrospinal fluid, whole-blood, and urine for studying neurological disorders.

STUDY WORKFLOW



PROCESSING, QC & QA



BIOMARKER DISCOVERY COLLECTIONS

PDBP
Parkinson's Disease
Biomarkers Program



2012 – Present
5 yrs. 1,400 unique subjects
Longitudinal Visits 2/yr.
(affected / control)

| PDBP | | |
|-------------|----------------|---------------|
| Samples | Total Subjects | Total Samples |
| WB (DNA) | 483 | 378 |
| WB (RNA) | 495 | 1,220 |
| Plasma | 336 | 1,824 |
| Serum | 300 | 1,651 |
| CSF | 114 | 679 |
| WB (stored) | 534 | 422 |

pdbp.ninds.nih.gov

BioFIND

THE FOX INVESTIGATION FOR
NEW DISCOVERY OF BIOMARKERS

Play a Part in Parkinson's Research

2012 – Present
2 yrs. 240 unique subjects
2 Visits within 2 weeks
(120 affected / 120 control)

| BioFIND | | |
|-------------|----------------|---------------|
| Samples | Total Subjects | Total Samples |
| WB (DNA) | 35 | 35 |
| WB (RNA) | 32 | 64 |
| Plasma | 34 | 394 |
| CSF | 30 | 302 |
| WB (stored) | 32 | 65 |

www.michaeljfox.org/biofind



2000 – Present
10+ yrs. 1,409 unique subjects
Longitudinal Visits 1/yr.
(diagnosed / at-risk / control)

| PREDICT-HD | | |
|-------------|----------------|---------------|
| Samples | Total Subjects | Total Samples |
| WB (DNA) | 16 | 16 |
| WB (RNA) | 353 | 723 |
| Plasma | 1,409 | 20,875 |
| CSF | 51 | 603 |
| Urine | 1,409 | 5,142 |
| WB (stored) | 1,409 | 2,558 |

www.predict-hd.net

Biomarkers of FTD

2013 – Present
3 yrs. 60 unique subjects
Longitudinal Visits 1/ two yrs.
(diagnosed / unaffected relatives)

| Frontotemporal Dementia | | |
|-------------------------|----------------|---------------|
| Samples | Total Subjects | Total Samples |
| WB (DNA) | 24 | 24 |
| WB (RNA) | 23 | 69 |
| Plasma | 23 | 138 |
| CSF | 7 | 63 |
| WB (stored) | 23 | 23 |

ccr.coriell.org/NINDS

