



The NEXT Generation of Neurologic Treatments
NIH-Network for Excellence in Neuroscience Clinical Trials

Clinical Trial Networks: The Network for Excellence in Neuroscience Clinical Trials (NeuroNEXT)

August 21, 2018



What Is NeuorNEXT?

- NIH - Network for Excellence in Neuroscience Clinical Trials
- Website: <https://www.neuronext.org>
- Network funded by NINDS in 2011
- 1 Clinical Coordinating Center (CCC); 1 Data Coordinating Center (DCC); 25 Clinical Study Sites (CSS)
- Network renewed in 2018
- 1 CCC, 1 DCC and 25 CSS (17 original sites and 8 new sites)

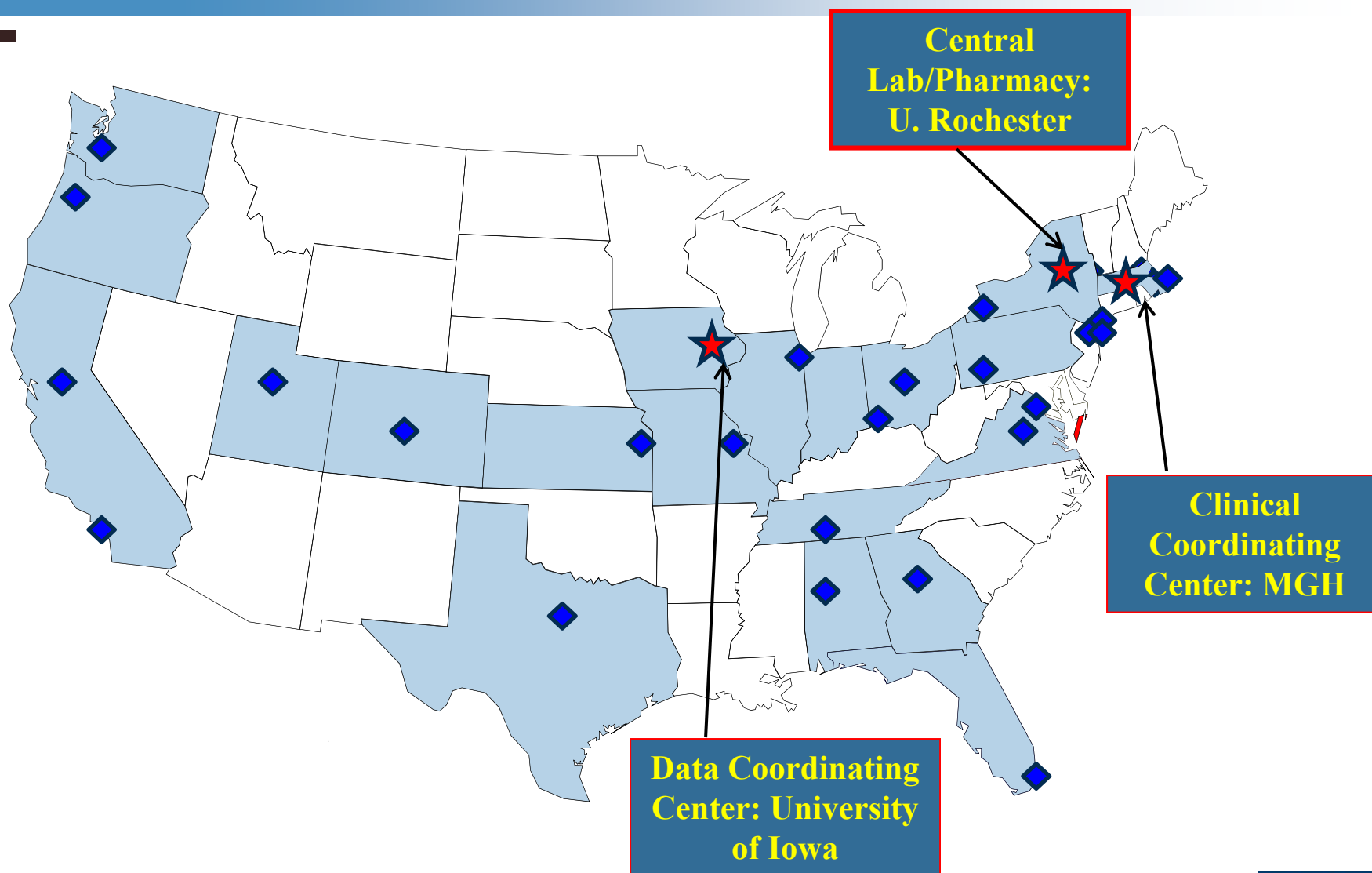
Network Vision

Conduct studies in neurological diseases through partnership with academia, private foundations and industry

Expand the NINDS capability to:

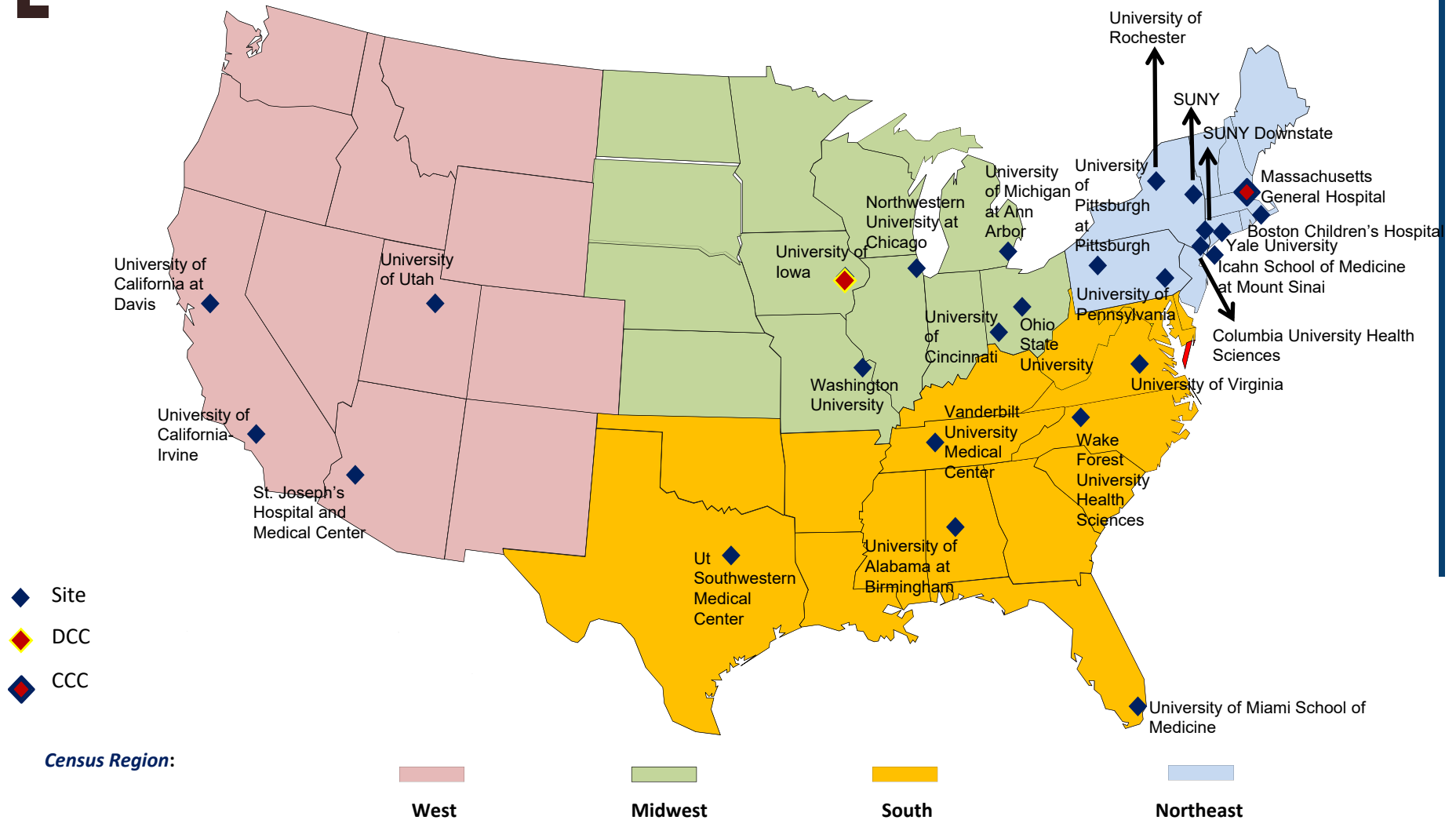
- Test promising new therapies
- Increase efficiency of clinical trials before embarking on larger studies
- Respond quickly as new opportunities arise to test promising therapies for people with neurological disorders

Network: Funded in 2011



Confidential

Network: Funded 2018



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[Network Infrastructure

➤ NIH/NINDS

- Janice Cordell, PhD
Robin Conwit, MD
Codrin Lungu, MD



➤ Clinical Coordinating Center

- Massachusetts General Hospital
(Merit Cudkowicz, MD, MSc)

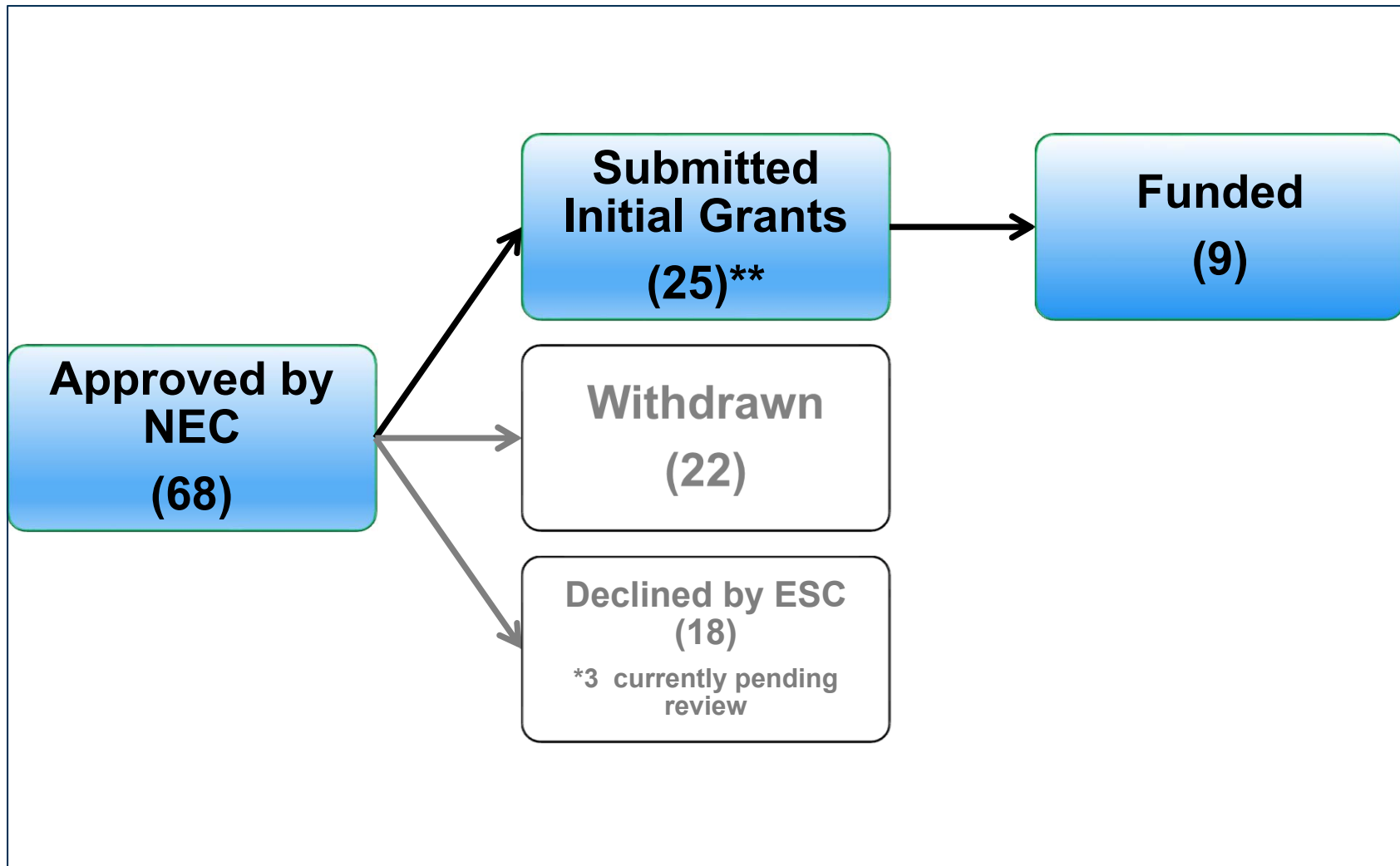


➤ Data Coordinating Center

- University of Iowa
(Christopher S. Coffey, PhD)



Nine Funded Studies



** 12 by investigators submitting their 1st NIH grant

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Network Studies to Date

- ✓ **Spinal Muscular Atrophy** Biomarker Study
- ✓ Ibudilast in Progressive **Multiple Sclerosis**
- ✓ Rituximab in **Myasthenia Gravis**
- ✓ 3K3A-APC in **Acute Stroke**
- ✓ SRX246 for Irritability in **Huntington's Disease**
- ✓ Cytochrome C as Biomarker for **Glioblastoma Multiforme**
- ✓ AFQ056 for Language Learning in **Fragile X Syndrome**
- ✓ Topiramate for **Cryptogenic Peripheral Neuropathy**
- ✓ ManNAc for **GNE Myopathy**

Network Accomplishments

- ✓ **Test promising (new) agents in Phase 2 clinical trials**
 - NN102, NN104, NN105, NN107, NN108, NN109
- ✓ **Establish efficient clinical trials infrastructure**
 - Central IRB (first for NINDS)
 - Master clinical trial agreements
 - Optimal use of NINDS CDEs
- ✓ **Coordinate public/private sector efforts**
- ✓ **Conduct clinical trials/biomarker studies with**
 - Academics – NN101, NN102, NN103, NN104, NN106, NN107, NN108
 - Small business – NN105
 - Industry partnerships – NN102, NN104, NN109
- ✓ **All studies meeting enrollment goals and sites providing high quality data!**

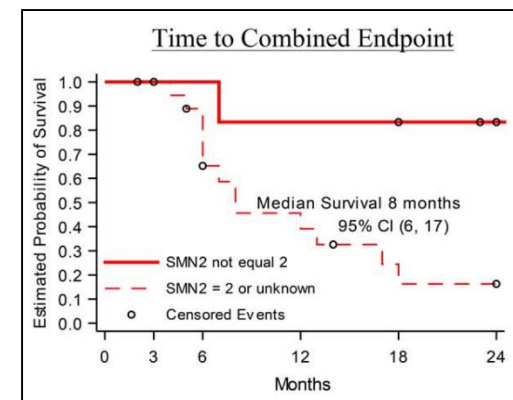
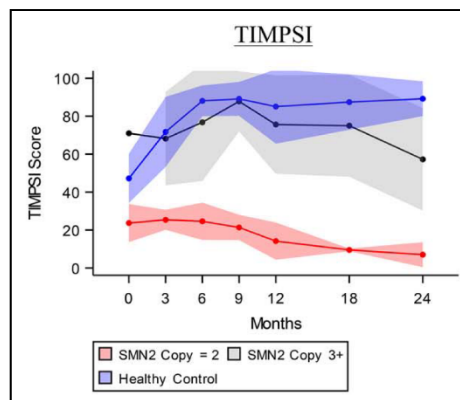
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NN101 – Spinal Muscular Atrophy



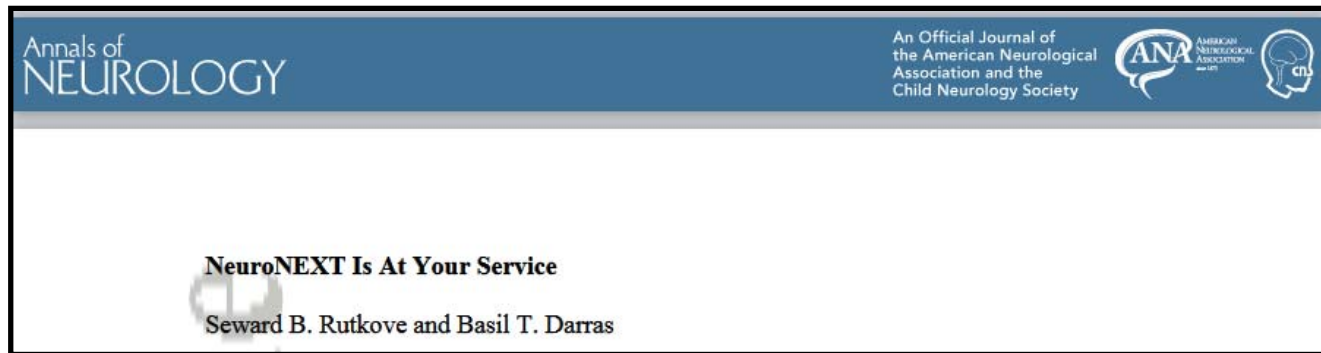
✓ Dec 2017: Primary Manuscript Published

- Motor function scores decreased rapidly in SMA infants, versus rapid increase in healthy infants
- Post hoc analysis of survival to combined endpoint in SMA infants with 2 copies of SMN2 indicated a median age of 8 months at death or need of ventilation (95% CI: 6, 17)



NN101 – Spinal Muscular Atrophy

✓ Jan 2018: Accompanying Editorial



- *“Perhaps the most remarkable aspect of this study is that it is already serving as the gold-standard for the natural history of untreated infantile SMA.”*
- *“NeuroNEXT is clearly trying to change the landscape of clinical trials in neurology, helping to empower the academic investigator to pursue research efforts that would otherwise be impossible.*
- *So what’s next for NeuroNEXT? That is up to you.*

Why Apply to Use NeuroNEXT

- Allows access to NeuroNEXT infrastructure
- Novel initiatives to increase efficiency of conducting clinical trials in the network:
 - Utilization of a Central IRB (CIRB) of record
 - Pre-existing Master Clinical Trial Agreements (MCTA) between the CCC and all clinical study sites
 - Availability of experienced trial design staff to assist with protocol and grant development
 - Experienced sites with full time funded coordinator and record of high enrollment and quality study conduct

Submitting Proposals to NeuroNEXT

- Contact Codrin Lungu, MD at NINDS
 - lunguci@ninds.nih.gov / 301-496-9135
- Complete Concept Form, submit to NINDS
- NINDS initial review to determine if proposal meets goals and missions of NeuroNEXT
 - If yes, proposal sent to:
 - NeuroNEXT Executive Committee (NEC) for feasibility review
 - NINDS Extramural Science Committee (ESC) for scientific merit & budget review
 - If no, NINDS informs Protocol PI and discusses other funding options

[Summary Statements

Primary reasons for studies not funded are primarily concerns with:

- Scientific Rationale/Significance
- Dosing/PK/PD
- Trial Design
- Outcome Measures