NeuroFest

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Reversing Synapse Dysfunction in Neuropsychiatric Disease

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Neurology
Glutamate Synapse
Synaptic Plasticity
NMDA receptors in disease

- Autism
- Intellectual Disability
- Depression
- Bipolar Disorder
- Anxiety Disorders
- PTSD
- Addiction
- Alzheimer’s Disease
- Huntington’s Disease
- Ischemia and Stroke
- Epilepsy
- ALS
- Chronic Pain
- Schizophrenia
NMDA receptors in disease

- Autism
- Intellectual Disability
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- Alzheimer's Disease
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- Ischemia and Stroke
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- Chronic Pain
- Schizophrenia
- Addiction
- Schizophrenia
- PTSD
- Chronic Pain
- Intellectual Disability
- Depression
- Bipolar Disorder
- Anxiety Disorders
- PTSD
NMDA Receptor

D-serine  glutamate
Neuromodulation

- **non-invasive**
  - CBT
  - tDCS
  - neurofeedback
  - psychotherapy

- **targeted**
  - TMS
  - LIFUP
  - optogenetics
  - DREADDs

- **invasive**
  - ICS
  - DBS
  - RNS
  - VNS
  - ECT
  - medications

- **global**
  - psychotherapy
  - medication
Neuromodulation

non-invasive

 targeted

 invasive

global

CBT

TMS

tDCS

LIFUP

medications

neurofeedback

psychotherapy

ECT

VNS

psychopharmacology

optogenetics

DREADDs

ECT

psychotherapy

medications

neurofeedback

psychotherapy
Neuromodulation

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 Optogenetics