



JOHNS HOPKINS
SCHOOL *of* MEDICINE



Excess Sphingolipid Synthesis and Motor Neuron Disease

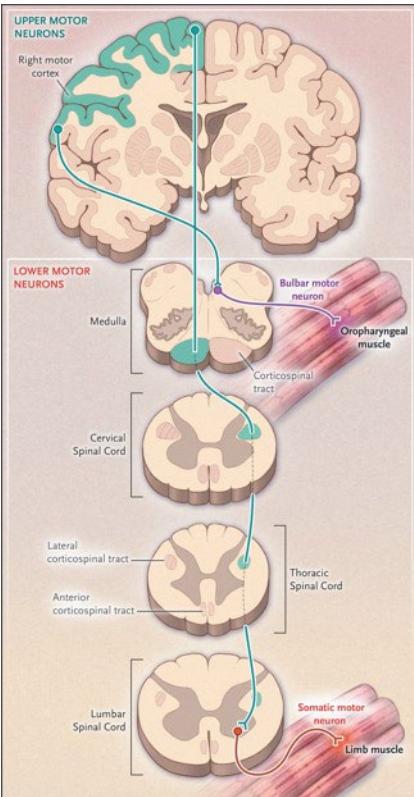
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Juvenile amyotrophic lateral sclerosis (jALS)



Upper motor neuron:

Pseudo bulbar affect
Spasticity
Hyperreflexia
Extensor plantar responses
Clonus
Synkinesias
Co-contraction (RAM deficits)

Lower motor neuron:

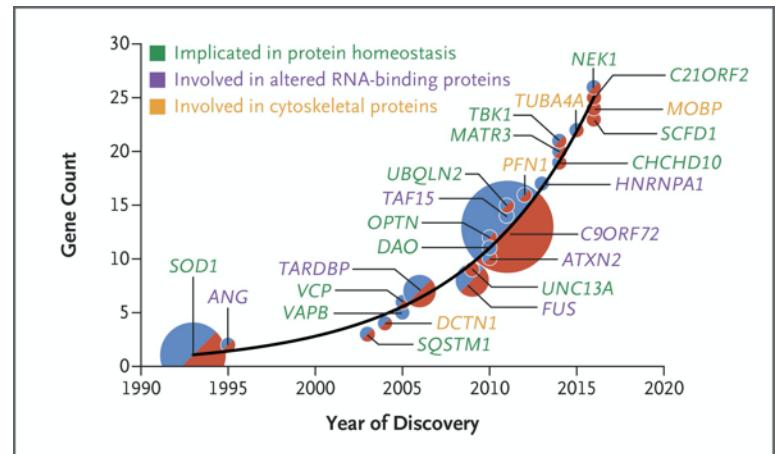
Weakness
Atrophy
Muscle hypotonicity
Fasciculations
Hyporeflexia

ALS is a **clinical diagnosis**

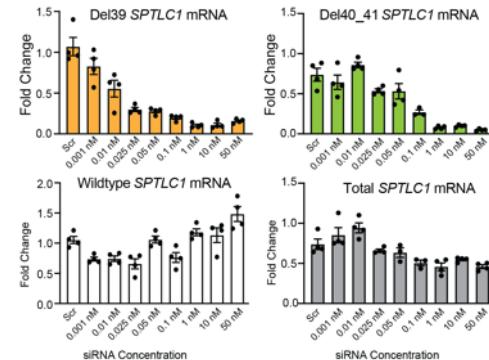
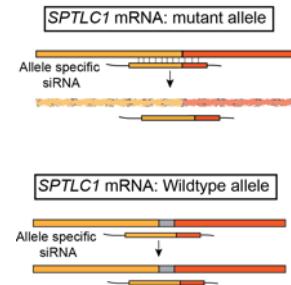
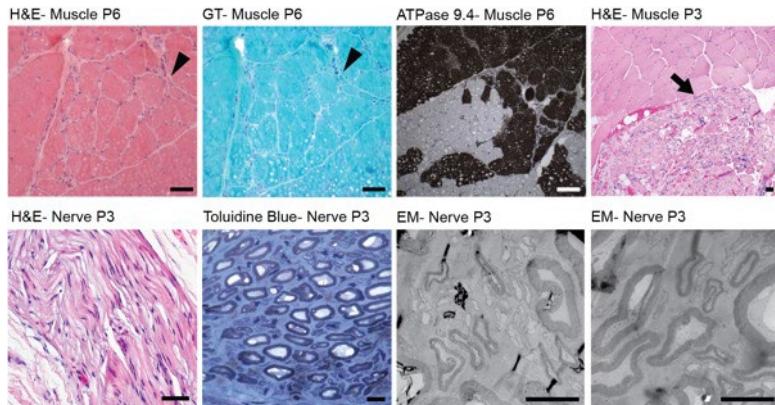
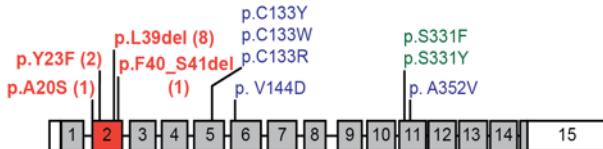
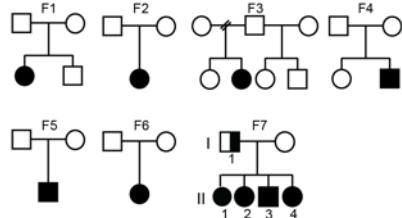
History, Clinical examination
Supported by electrodiagnostic
and other ancillary studies

Sporadic ALS vs familial/genetic ALS

ALS is a neurodegenerative disease

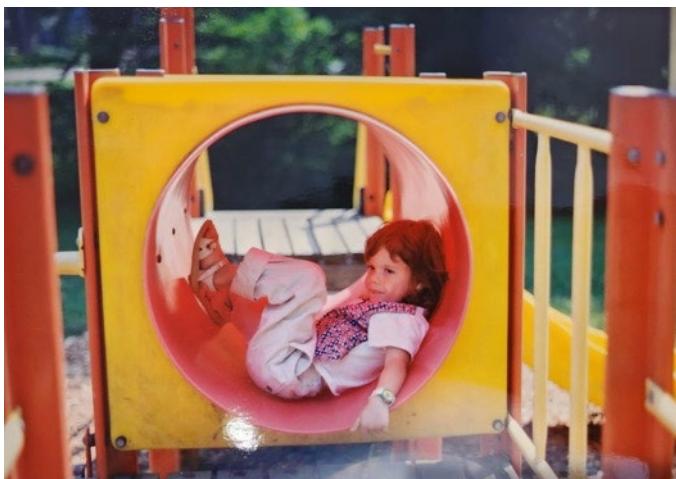
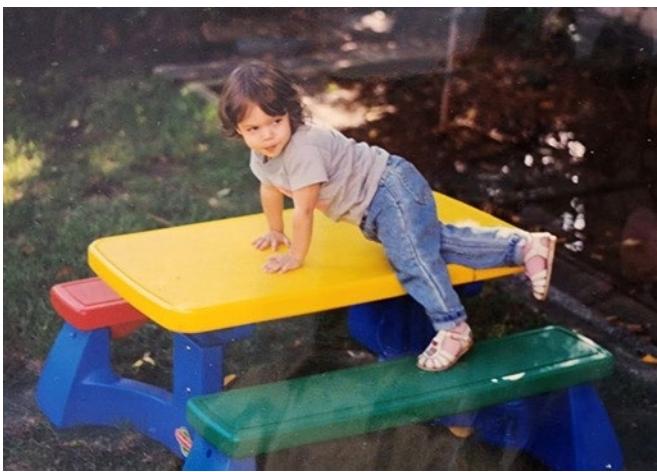


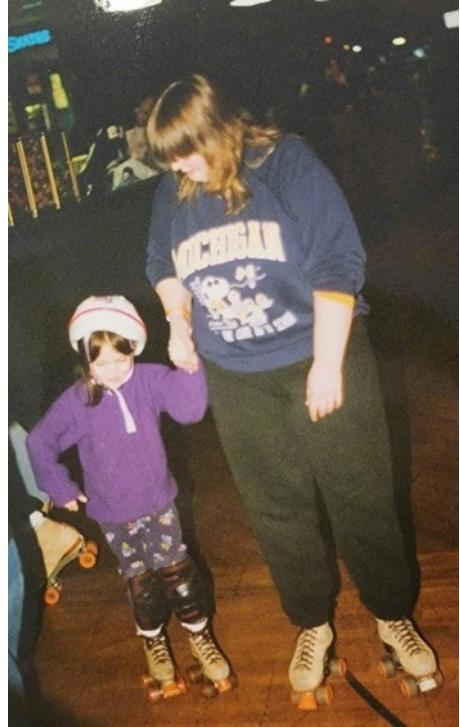
Gene discovery: a new monogenic form of childhood ALS



Voice of the participant

- Rivka Herzfeld





2011



2018





