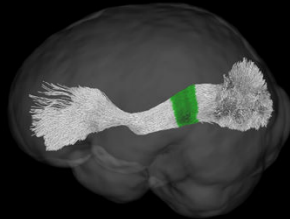


Individuals born with congenital cataracts exhibit both persisting impairment and extensive recovery of white matter microstructure after sight restoration

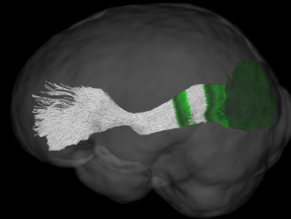
Jordan Hassett, Cordula Hölig, Sunitha Lingareddy, Ramesh Kekunnaya, & Brigitte Röder

Persisting impairment and considerable recovery in congenital cataract reversal individuals

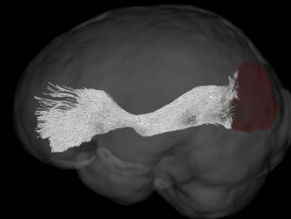
Congenital cataract reversal individuals vs Normally sighted controls



Congenitally blind individuals vs Normally sighted controls



Congenital cataract reversal individuals vs Congenitally blind individuals



Impairment



Recovery

Permanent congenital blindness results in **impaired white matter microstructure** in major visual white matter tracts.

Restoring sight in individuals with congenital cataracts results in **widespread recovery** of major visual white matter tracts.

Sight restoration after congenital blindness seems to be closely related to myelin plasticity.



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