



➔ **Cover Image**

Confocal images of motor neuron primary and secondary axons (green) in uninjected (left) and *tp73^{CRISPR}* injected (right) embryos.

tp73^{CRISPR} mutagenized embryos exhibited a significant reduction in primary and secondary axonal branching length. Stylized by Kaitlyn Aman Ramm, Digital Multimedia/Graphics Coordinator.

See page 109

In Focus

103 **Spotlight on the July 20 Issue**

104 **This Week's *Neurology*® Podcast**

Editorials

105 **New Amyotrophic Lateral Sclerosis Gene Identified: Are Novel Therapies on the Horizon?**

P. Hedera

107 **Subthalamic Nucleus Deep Brain Stimulation: Uncomplicating Motor Complications for the Long Haul**

K.L. Chou and D. Charles

Research Articles: Short Format

Full articles at Neurology.org/N

109 **Pathogenic Effect of *TP73* Gene Variants in People With Amyotrophic Lateral Sclerosis**

K.L. Russell, J.M. Downie, S.B. Gibson, S. Tsetsou, M.D. Keefe, J.A. Duran, K.P. Figueroa, M.B. Bromberg, L.C. Murtaugh, J.L. Bonkowsky, S.M. Pulst, and L.B. Jorde

➔ Editorial, p. 105

110 **Rare Missense Functional Variants at *COL4A1* and *COL4A2* in Sporadic Intracerebral Hemorrhage**

J. Chung, G. Hamilton, M. Kim, S. Marini, B. Montgomery, J. Henry, A.E. Cho, D.L. Brown, B.B. Worrall, J.F. Meschia, S.L. Silliman, M. Selim, D.L. Tirschwell, C.S. Kidwell, B. Kissela, S.M. Greenberg, A. Viswanathan, J.N. Goldstein, C.D. Langefeld, K. Rannikmae, C.L.M. Sudlow, N. Samarasekera, M. Rodrigues, R. Al-Shahi Salman, J.G.D. Prendergast, S.E. Harris, I. Deary, D. Woo, J. Rosand, T. Van Agetmael, and C.D. Anderson

OPEN ACCESS

111 **Reversible Cerebral Vasoconstriction Syndrome: Symptoms, Incidence, and Resource Utilization in a Population-Based US Cohort**

J. Magid-Bernstein, S.S. Omran, N.S. Parikh, A.E. Merkler, B. Navi, and H. Kamel

➔ CME Course ➔ Podcast

112 **Long-term Outcomes (15 Years) After Subthalamic Nucleus Deep Brain Stimulation in Patients With Parkinson Disease**

F. Bove, D. Mulas, F. Cavallieri, A. Castrioto, S. Chabardès, S. Meoni, E. Schmitt, A. Bichon, E. Di Stasio, A. Kistner, P. Pélissier, E. Chevrier, E. Seigneuret, P. Krack, V. Fraix, and E. Moro

➔ Infographic ➔ Video Summary ➔ Class of Evidence
➔ Editorial, p. 107

113 **Nomograms to Predict Verbal Memory Decline After Temporal Lobe Resection in Adults With Epilepsy**

R.M. Busch, O. Hogue, M. Miller, L. Ferguson, M.P. McAndrews, M. Hamberger, M. Kim, C.R. McDonald, A. Reyes, D.L. Drane, B.P. Hermann, W. Bingaman, I.M. Najm, M.W. Kattan, and L. Jehi

➔ Class of Evidence

114 **Association of Type 1 Diabetes and Hypoglycemic and Hyperglycemic Events and Risk of Dementia**

R.A. Whitmer, P. Gilsanz, C.P. Quesenberry, A.J. Karter, and M.E. Lacy

➔ CME Course

115 **Tripartite Relationship Among Synaptic, Amyloid, and Tau Proteins: An In Vivo and Postmortem Study**

K.B. Casaletto, H. Zetterberg, K. Blennow, A. Brinkmalm, W. Honer, J.A. Schneider, D.A. Bennett, N. Djukic, M. You, S. Weiner-Light, C. Fonseca, B.L. Miller, and J. Kramer

116 **White Matter Disruption in Pediatric Traumatic Brain Injury: Results From ENIGMA Pediatric Moderate to Severe Traumatic Brain Injury**

E.L. Dennis, K. Caeyenberghs, K.R. Hoskinson, T.L. Merkley, S.J. Suskauer, R.F. Asarnow, T. Babikian, B. Bartnik-Olson, K. Bickart, E.D. Bigler, L. Ewing-Cobbs, A. Figaji, C.C. Giza, N.J. Goodrich-Hunsaker, C.B. Hodges, E.S. Hovenden, A. Irimia, M. Königs, H.S. Levin, H.M. Lindsey, J.E. Max, M.R. Newsome, A. Olsen, N.P. Ryan, A.T. Schmidt, M.S. Spruiell, B.S.C. Wade, A.L. Ware, C.G. Watson, A.L. Wheeler, K.O. Yeates, B.A. Zielinski, P. Kochunov, N. Jahanshad, P.M. Thompson, D.F. Tate, and E.A. Wilde

117 **Variability in Pediatric Brain Death Determination Protocols in the United States**

C. Francoeur, M.J. Weiss, J.M. MacDonald, C. Press, D.M. Greer, R.A. Berg, A.A. Topjian, W. Morrison, and M.P. Kirschen

Clinical/Scientific Notes

118 **Clinical Presentation and Management of SMART Syndrome**

S.F. Winter, J.P. Klein, E.J. Vaios, P. Karschnia, E.Q. Lee, H.A. Shih, F. Loebel, and J. Dietrich

➔ **Ahead of Print Articles and Editorials**

NPub.org/aheadofprint

Continued

Basic Science in the Clinic

- 121 **What Is the Potential Role of Poly(ADP-Ribose) Polymerase 1 in Parkinson Disease?**
R. Savica and E. Benarroch

Contemporary Issues in Practice, Education, & Research

- 125 **Career Development Program for Underrepresented in Medicine Scholars in Academic Neurology: TRANSCENDS**
R. Tagge, D.T. Lackland, P.B. Gorelick, I. Litvan, S. Cruz-Flores, J.G. Merino, and B. Ovbiagele

Special Article

- 134 **Quality Improvement in Neurology: Multiple Sclerosis Quality Measurement Set 2020 Update**
A. Rae-Grant, L. Amezcua, J. English, N. Garg, B. Giesser, A.G. Kelly, I.V. Marin Collazo, A. Montague, M. Olek, E. Page, A. Bennett, and T. Caller

NeuroImages

- 142 **Bilateral Posterior Temporal Lobe Contusions as a Rare Pattern of Traumatic Brain Injury**
A. Geebels, P. Vermynen, L. Janssen, and M. Dewil

Resident & Fellow Section

- 144 **Journal Club: Trends in Incidence and Epidemiologic Characteristics of Cerebral Venous Thrombosis in the United States**
N. Raptis, S.M. Zuurbier, and M.R. Heldner
- e320 **Pearls & Oy-sters: Paradoxical Head Tilt in a Congenital Fourth Nerve Palsy**
A.K. Sharma, D.D. Kim, and J.A. Fraser
- e324 **Teaching NeuroImages: MRI Abnormalities of Spinal Dural Arteriovenous Fistula in the Absence of Flow Voids**
A.M. Miranda, M.G. Rodrigues, A. Araujo, M.Q. Ribeiro, H. Costa, and S. Castro
- e326 **Teaching Video NeuroImages: Optic Ataxia as the Presenting Sign of the Heidenhain Variant of Creutzfeldt-Jakob Disease**
S.-L. Yang, X. Han, and Q. Dong



Video

Disputes & Debates: Editors' Choice

- 148 **Editors' Note: Cause of Death in Spontaneous Intracerebral Hemorrhage Survivors: Multistate Longitudinal Study**
J.E. Siegler and S. Galetta
- 148 **Reader Response: Cause of Death in Spontaneous Intracerebral Hemorrhage Survivors: Multistate Longitudinal Study**
A.E.E. Llamas-Nieves, I.D. Lozada-Martinez, D.M. Torres-Llinás, and L.R. Moscote-Salazar
- 149 **Author Response: Cause of Death in Spontaneous Intracerebral Hemorrhage Survivors: Multistate Longitudinal Study**
L. Kuohn and K. Sheth
- 150 **Editors' Note: Sex, Race, and Risk of Dementia Diagnosis After Traumatic Brain Injury Among Older Veterans**
J.E. Siegler and S. Galetta
- 150 **Reader Response: Sex, Race, and Risk of Dementia Diagnosis After Traumatic Brain Injury Among Older Veterans**
J.S. Roberts I
- 151 **Author Response: Sex, Race, and Risk of Dementia Diagnosis After Traumatic Brain Injury Among Older Veterans**
E.S. Kornblith

Corrections

- 151 **Thrombolysis in Acute Ischemic Stroke in Patients With Dementia: A Swedish Registry Study**
- 151 **ALS is a Multistep Process in South Korean, Japanese, and Australian Patients**

DepartmentIn the Next Issue of *Neurology*[®]

Neurology[®]

97 (3)

Neurology 2021;97:e324-151

This information is current as of January 1, 2021

Updated Information & Services

including high resolution figures, can be found at:
<http://n.neurology.org/content/97/3.full>

Permissions & Licensing

Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:
http://www.neurology.org/about/about_the_journal#permissions

Reprints

Information about ordering reprints can be found online:
<http://n.neurology.org/subscribers/advertise>

Neurology® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright . All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

