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BOLETÍN MENSUAL DE DIVULGACIÓN DE INFORMACIÓN DEL CRE DISCAPACIDAD Y DEPENDENCIA, IMSERSO

Boletín
mensual de
divulgación de
información
sobre
investigaciones,
publicaciones y
avances
científicos
relacionados
con la
discapacidad

Enero

2023



Recopilación de nuevas investigaciones, publicaciones y avances sobre:

Discapacidad.

- ✓ Rehabilitation enhances epothilone-induced locomotor recovery after spinal cord injury.

Jarred M Griffin, Sonia Hingorani Jai Prakash, Till Bockemühl, Jessica M Gonyer, Barbara Schaffran, Victoria Moreno-Manzano, Ansgar Büschges, Frank Bradke.

DOI: <https://doi.org/10.1093/braincomms/fcad005>

Artículo de la revista Brains Communications

- ✓ Neuroanatomical mapping of the lumbosacral spinal cord in individuals with chronic spinal cord injury.

Samineh Mesbah, April Herrity, Beatrice Ugiliweneza, Claudia Angeli, Yury Gerasimenko, Maxwell Boakye, Susan Harkema.

DOI: <https://doi.org/10.1093/braincomms/fcac330>

Artículo de la revista Brains Communications

- ✓ Body mass index is not suitable for assessing body composition in children with spastic cerebral palsy.

Laura M. Breij, Rick A. H. van de Ven, Raquel Y. Hulst, Ana R. P. Smorenburg, Jan Willem Gorter & Olaf W. Verschuren.

DOI: <https://doi.org/10.1080/09638288.2023.2167007>

Artículo de la revista Disability and Rehabilitation.

- ✓ Functional genomics provide key insights to improve the diagnostic yield of hereditary ataxia

Zhongbo Chen, Arianna Tucci, Valentina Cipriani, Emil K Gustavsson, Kristina Ibañez, Regina H Reynolds, David Zhang, Letizia Vestito, Alejandro Cisterna García, Siddharth Sethi, Jonathan W Brenton, Sonia



García-Ruiz, Aine Fairbrother-Browne, Ana-Luisa Gil-Martinez, Genomics England Research Consortium Nick Wood , John A Hardy, Damian Smedley, Henry Houlden, Juan Botía, Mina Ryten

DOI: <https://doi.org/10.1093/brain/awad009>

Artículo de la revista Brain.

- ✓ Synaptogenic gene therapy with FGF22 improves circuit plasticity and functional recovery following spinal cord injury

Almir Aljović, Anne Jacobi, Maite Marcantoni, Fritz Kagerer, Kristina Loy, Arek Kendirli, Jonas Bräutigam, Luca Fabbio, Valérie Van Steenberg, Katarzyna Pleśniar, Martin Kerschensteiner, Florence M Bareyre

DOI: <https://doi.org/10.15252/emmm.202216111>

Artículo de la revista EMBO Molecular Medicine.

- ✓ Targeting gut dysbiosis against inflammation and impaired autophagy in Duchenne muscular dystrophy

Hilal Kalkan, Ester Pagano, Debora Paris, Elisabetta Panza, Mariarosaria Cuozzo, Claudia Moriello, Fabiana Piscitelli, Armita Abolghasemi, Elisabetta Gazzo, Cristoforo Silvestri, Raffaele Capasso, Andrea Motta, Roberto Russo, Vincenzo Di Marzo, Fabio Arturo Iannotti

DOI: <https://doi.org/10.15252/emmm.202216225>

Artículo de la revista EMBO Molecular Medicine.

- ✓ AAV Vector Mediated Delivery of NG2 Function Neutralizing Antibody and Neurotrophin NT-3 Improves Synaptic Transmission, Locomotion, and Urinary Tract Function after Contusion Spinal Cord Contusion Injury in Adult Rats.

Hayk A. Petrosyan, Valentina Alessi, Kristin Lasek, Sricharan Gumudavelli, Robert Muffaletto, Li Liang, William F. Collins III, Joel Levine and Victor L. Arvanian.

DOI: <https://doi.org/10.1523/JNEUROSCI.1276-22.2023>

Artículo de la revista The Journal of Neuroscience.

- ✓ A first-in-human phase I/IIa gene transfer clinical trial for Duchenne muscular dystrophy using rAAVrh74.MCK.GALGT2

Kevin M. Flanigan, Tatyana A. Vetter, Tabatha R. Simmons, Megan Iammarino, Emma C. Frair, Federica Rinaldi, Louis G. Chicoine, Johan Harris, John P. Cheatham, Sharon L. Cheatham, Brian Boe, Megan A. Waldrop, Deborah A. Zygmunt, Davin Packer, Paul T. Martin.



DOI: <https://doi.org/10.1016/j.omtm.2022.08.009>

Artículo de la revista Molecular Therapy. Methods & Clinical Development.

- ✓ Human spinal GABA neurons survive and mature in the injured nonhuman primate spinal cord

Xiaolong Zheng, Bo Zhu, Jiang Xu, Dong Liu, Yan Huang, Daiqi Chen, Zhixian Liu, Fangliang Guo, Yuanji Dong, Wenzhen Zhu, Dengji Pan, Su-Chun Zhang, Hong Chen, Wei Wang

DOI: <https://doi.org/10.1016/j.stemcr.2022.12.016>

Artículo de la revista Stem Cell Reports

Enfermedad de Huntington.

- ✓ Altered m6A RNA methylation contributes to hippocampal memory deficits in Huntington's disease mice

Anika Pupak, Ankita Singh, Anna Sancho-Balsells, Rafael Alcalá-Vida, Marc Espina, Albert Giralte, Eulàlia Martí, Ulf Andersson Vang Ørom, Silvia Ginés & Verónica Brito

DOI: <https://doi.org/10.1007/s00018-022-04444-6>

Artículo de la revista Cellular and Molecular Life Sciences

Enfermedad de Parkinson.

- ✓ Mitochondrial haplogroups and cognitive progression in Parkinson's disease.

Ganqiang Liu, Chunming Ni, Jiamin Zhan, Weimin Li, Junfeng Luo, Zhixiang Liao, Joseph J Locascio, Wenbiao Xian, Ling Chen, Zhong Pei, Jean-Christophe Corvol, Jodi Maple-Grødem, Meghan C Campbell, Alexis Elbaz, Suzanne Lesage, Alexis Brice, Albert Y Hung, Michael A Schwarzschild, Michael T Hayes, Anne-Marie Wills, Bernard Ravina, Ira Shoulson, Pille Taba, Sulev Kõks, Thomas G Beach, Florence Cormier-Dequaire, Guido Alves, Ole-Bjørn Tysnes, Joel S Perlmutter, Peter Heutink, Jacobus J van Hilten, Roger A Barker, Caroline H Williams-Gray, Clemens R Scherzer, International Genetics of Parkinson Disease Progression (IGPP) Consortium.

DOI: <https://doi.org/10.1093/brain/awac327>

Artículo de la revista Brain.



- ✓ Genome-wide contribution of common short-tandem repeats to Parkinson's disease genetic risk.

Bernabe I Bustos, Kimberley Billingsley, Cornelis Blauwendraat, J Raphael Gibbs, Ziv Gan-Or, Dimitri Krainc, Andrew B Singleton, Steven J Lubbe, International Parkinson's Disease Genomics Consortium (IPDGC)

DOI <https://doi.org/10.1093/brain/awac301>

Artículo de la revista Brain.

- ✓ Extracellular vesicle biomarkers for cognitive impairment in Parkinson's disease

Joseph Blommer, Toni Pitcher, Maja Mustapic, Erden Eren, Pamela J Yao, Michael P Vreones, Krishna A Pucha, John Dalrymple-Alford, Reza Shoorangiz, Wassilios G Meissner, Tim Anderson, Dimitrios Kapogiannis.

DOI <https://doi.org/10.1093/brain/awac258>

Artículo de la revista Brain.

- ✓ CSF-derived extracellular vesicles from patients with Parkinson's disease induce symptoms and pathology.

Shay Herman, Ruth Djaldetti, Brit Mollenhauer, Daniel Offen.

DOI <https://doi.org/10.1093/brain/awac261>

Artículo de la revista Brain.

- ✓ Peripheral neuropathy in Parkinson's disease: prevalence and functional impact on gait and balance.

Marta Francisca Corrà, Nuno Vila-Chã, Ana Sardoeira, Clint Hansen, Ana Paula Sousa, Inês Reis, Firmina Sambayeta, Joana Damásio, Margarida Calejo, Andreas Schicketmueller, Inês Laranjinha, Paula Salgado, Ricardo Taipa, Rui Magalhães, Manuel Correia, Walter Maetzler, Luís F Maia.

DOI <https://doi.org/10.1093/brain/awac026>

Artículo de la revista Brain.

- ✓ Transcranial sonography with clinical and demographic characteristics to predict cognitive impairment in PD: a longitudinal study.

Zhiguang Chen, Wei Zhang, Wen He, Yang Guang, Tengfei Yu, Yue Du & Rui Li.

DOI: <https://doi.org/10.1186/s12883-023-03057-1>



Artículo de la revista BMC Neurology

- ✓ Effects and parameters of community-based exercise on motor symptoms in Parkinson's disease: a meta-analysis.

Chun-Lan Yang, Jia-Peng Huang, Ting-Ting Wang, Ying-Chao Tan, Yin Chen, Zi-Qi Zhao, Chao-Hua Qu & Yun Qu.

DOI: <https://doi.org/10.1186/s12883-022-03027-z>

Artículo de la revista BMC Neurology

- ✓ Changes in both top-down and bottom-up effective connectivity drive visual hallucinations in Parkinson's disease.

George E C Thomas, Peter Zeidman, Tajwar Sultana, Angeliki Zarkali, Adeel Razi, Rimona S Weil.

DOI: <https://doi.org/10.1093/braincomms/fcac329>

Artículo de la revista Brains Communications

- ✓ Whole-brain dynamical modelling for classification of Parkinson's disease.

Kyesam Jung, Esther Florin, Kaustubh R Patil, Julian Caspers, Christian Rubbert, Simon B Eickhoff, Oleksandr V Popovych.

DOI: <https://doi.org/10.1093/braincomms/fcac331>

Artículo de la revista Brains Communications

- ✓ Novelty-induced frontal–STN networks in Parkinson's disease

Rachel C Cole, Arturo I Espinoza, Arun Singh, Joel I Berger, James F Cavanagh, Jan R Wessel, Jeremy D Greenlee, Nandakumar S Narayanan

DOI: <https://doi.org/10.1093/cercor/bhac078>

Artículo de la revista Cerebral Cortex.

- ✓ Effect of aquatic exercise programs according to the International Classification of Functionality, Disability and Health domains in individuals with Parkinson's disease: a systematic review and meta-analysis with GRADE quality assessment.

Marcos Paulo Braz de Oliveira, Carla Rigo Lima, Silvia Lanzotti Azevedo da Silva, Eluy Cristina Firmino Vaz Figueira, Brendon David Truax & Suhaila Mahmoud Smali.

DOI: <https://doi.org/10.1080/09638288.2022.2164800>

Artículo de la revista Disability and Rehabilitation.



- ✓ The c-Abl inhibitor IKT-148009 suppresses neurodegeneration in mouse models of heritable and sporadic Parkinson's disease.

Senthilkumar S. Karuppagounder, Hu Wang, Terence Kelly, Roger Rush, Richard Nguyen, Shivani Bisen, Yoko Yamashita, Nicholas Sloan, Brianna Dang, Alexander Sigmon, Hyeun Woo Lee, Shirley Marino Lee, Leslie Watkins, Erica Kim, Saurav Brahmachari, Manoj Kumar, Milton H. Werner, Ted M. Dawson and Valina L. Dawson.

DOI: [10.1126/scitranslmed.abp9352](https://doi.org/10.1126/scitranslmed.abp9352)

Artículo de la revista Science Translational Medicine

- ✓ Altered Neurovascular Coupling for Multidisciplinary Intensive Rehabilitation in Parkinson's Disease.

Ting Li, Li Wang, Zhixin Piao, Keke Chen, Xin Yu, Qiping Wen, Dingjie Suo, Chunyu Zhang, Shintaro Funahashi, Guangying Pei, Boyan Fang and Tianyi Yan.

DOI: <https://doi.org/10.1523/JNEUROSCI.1204-22.2023>

Artículo de la revista The Journal of Neuroscience.

- ✓ α -Synuclein Pathology and Reduced Neurogenesis in the Olfactory System Affect Olfaction in a Mouse Model of Parkinson's Disease.

Eduardo Martin-Lopez, D. J. Vidyadhara, Teresa Liberia, Sarah J. Meller, Leah E. Harmon, Ryan M. Hsu, Natalie Spence, Bowen Brennan, Kimberly Han, Betül Yücel, Sreeganga S. Chandra and Charles A. Greer.

DOI: <https://doi.org/10.1523/JNEUROSCI.1526-22.2022>

Artículo de la revista The Journal of Neuroscience.

- ✓ Subthalamic stimulation modulates motor network in Parkinson's disease: recover, relieve and remodel.

Chunguang Chu, Shang Liu, Naying He, Zhitong Zeng, Jiang Wang, Zhen Zhang, Kristina Zeljic, Odin van der Stelt, Bomin Sun, Fuhua Yan, Chen Liu, Dianyou Li, Chencheng Zhang.

DOI <https://doi.org/10.1093/brain/awad004>

Artículo de la revista Brain.

- ✓ Thalamic pathways mediating motor and non-motor symptoms in a Parkinson's disease model

Bin Xiao, Eng-King Tan



DOI: <https://doi.org/10.1016/j.tins.2022.09.004>
Artículo de la revista Trends in Neurosciences.

Esclerosis Lateral Amiotrófica (ELA)

- ✓ Running up that pill for amyotrophic lateral sclerosis

Julie Smeyers, Daniel A Mordes

DOI: <https://doi.org/10.1093/brain/awac408>
Artículo de la revista Brain.

- ✓ Maiden voyage: induced pluripotent stem cell-based drug screening for amyotrophic lateral sclerosis.

Daisuke Ito, Satoru Morimoto, Shinichi Takahashi, Kensuke Okada, Jin Nakahara, Hideyuki Okano

DOI: <https://doi.org/10.1093/brain/awac306>
Artículo de la revista Brain.

- ✓ Different saccadic profile in bulbar versus spinal-onset amyotrophic lateral sclerosis.

Domenica Zaino, Valeria Serchi, Fabio Giannini, Barbara Pucci, Giacomo Veneri, Elena Pretegianni, Francesca Rosini, Lucia Monti, Alessandra Rufa.

DOI: <https://doi.org/10.1093/brain/awac050>
Artículo de la revista Brain.

- ✓ Neuroinflammation-Related Proteins NOD2 and Spp1 Are Abnormally Upregulated in Amyotrophic Lateral Sclerosis.

Noemí de Luna, Álvaro Carbayo, Oriol Dols-Icardo, Janina Turon-Sans, David Reyes-Leiva, Ignacio Illan-Gala, Ivonne Jericó, Inma Pagola-Lorz, Cinta Lleixà, Luis Querol, Sara Rubio-Guerra, Daniel Alcolea, Juan Fortea, Alberto Lleó, Elena Cortés-Vicente, Ricardo Rojas-García.

DOI: <https://doi.org/10.1212/NXI.000000000200072>
Artículo de la revista Neurology Neuroimmunology and Neuroinflammation

- ✓ A blood–brain penetrant RNA-targeted small molecule triggers elimination of r(G4C2)_{exp} in c9ALS/FTD via the nuclear RNA exosome.



Jessica A. Bush, Samantha M. Meyer, Rita Fuerst, Yuquan Tong, Yue Li, Raphael I. Benhamou, Haruo Aikawa, Patrick R. A. Zanon, Quentin M. R. Gibaut, Alicia J. Angelbello, Tania F. Gendron, Yong-Jie Zhang, Leonard Petrucelli, Torben Heick Jensen, Jessica L. Childs-Disney, and Matthew D. Disney

DOI: <https://doi.org/10.1073/pnas.2210532119>

Artículo de la revista PNAS (Proceedings of the National Academy of Sciences of the United States of America).

- ✓ Mutated FUS in familial amyotrophic lateral sclerosis involves multiple hnRNPs in the formation of neuronal cytoplasmic inclusions.

Hiroyuki Honda, MD, PhD, Motoi Yoshimura, MD, PhD, Hajime Arahata, MD, PhD, Kaoru Yagita, MD, Shoko Sadashima, MD, PhD, Hideomi Hamasaki, PhD, Masahiro Shijo, MD, PhD, Sachiko Koyama, BSc, Hideko Noguchi, BSc, Naokazu Sasagasako, MD.

DOI: <https://doi.org/10.1093/jnen/nlac124>

Artículo de la revista Journal of Neuropathology & Experimental Neurology.

- ✓ Microglial heterogeneity in amyotrophic lateral sclerosis

Kazuya Takahashi, MD, PhD.

DOI: <https://doi.org/10.1093/jnen/nlac110>

Artículo de la revista Journal of Neuropathology & Experimental Neurology.

- ✓ Advances in sequencing technologies for amyotrophic lateral sclerosis research.

Evan Udine, Angita Jain & Marka van Blitterswijk.

DOI: <https://doi.org/10.1186/s13024-022-00593-1>

Artículo de la revista Molecular Neurodegeneration

Esclerosis múltiple y otras enfermedades autoinmunes.

- ✓ Location, location, location: myelin repair and proximity to ventricular CSF in multiple sclerosis



Susan A Gauthier

DOI: <https://doi.org/10.1093/brain/awac448>

Artículo de la revista Brain.

- ✓ Microstates in multiple sclerosis: an electrophysiological signature of altered large-scale networks functioning?

Sara Baldini, Maria Elisa Morelli, Arianna Sartori, Fulvio Pasquin, Alessandro Dinoto, Alessio Bratina, Antonio Bosco, Paolo Manganotti.

DOI: <https://doi.org/10.1093/braincomms/fcac255>

Artículo de la revista Brains Communications

- ✓ Remote Observational Research for Multiple Sclerosis. A Natural Experiment.

Riley Bove, Shane Poole, Richard Cuneo, Sasha Gupta, Joseph Sabatino, Meagan Harms, Tiffany Cooper, William Rowles, Nicolette Miller, Refujia Gomez, Robin Lincoln, Kira McPolin, Kyra Powers, Adam Santaniello, Adam Renschen, Carolyn J. Bevan, Jeffrey M. Gelfand, Douglas S. Goodin, Chu-Yueh Guo, Andrew R. Romeo, Stephen L. Hauser, Bruce Anthony Campbell Cree; on behalf of the UCSF MS-EPIC Team.

DOI: <https://doi.org/10.1212/NXI.000000000200070>

Artículo de la revista Neurology Neuroimmunology and Neuroinflammation

- ✓ Neuroaxonal and Glial Markers in Patients of the Same Age With Multiple Sclerosis.

Floor C. Loonstra, Lodewijk R.J. de Ruiter, Marleen J.A. Koel-Simmelink, Menno M. Schoonheim, Eva M.M. Strijbis, Bastiaan Moraal, Frederik Barkhof, Bernard M.J. Uitdehaag, Charlotte Teunissen, Joep Killestein.

DOI: <https://doi.org/10.1212/NXI.000000000200078>

Artículo de la revista Neurology Neuroimmunology and Neuroinflammation



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