Biological Psychiatry

A Journal of Psychiatric Neuroscience and Therapeutics

Volume 93, Number 9, May 1, 2023

ALZHEIMER'S DISEASE: FROM THE GENOME TO THE EXPOSOME

IN	THIS	ISSUE	-	MAY	1st
		LOCOL		****	

751 A brief summary of the articles appearing in this issue of *Biological Psychiatry*.

COMMENTARIES

752 Functional Networks: A New Window Into Alzheimer's Disease Subtypes Timothy Rittman

» See corresponding article on page 759

754 Proteomic Data Advance Targeted Drug Development for Neurogenerative Diseases

Nora E. Emerson and Vivek Swarup

» See corresponding article on page 770

756 Toward a Full Understanding of Causal and Modifiable Risk Factors for Alzheimer's Disease by Integrative Phenome-wide Association Studies

Deng-Feng Zhang and Ming Li

» See corresponding article on page 790

ARCHIVAL REPORTS

759 Four Distinct Subtypes of Alzheimer's Disease Based on Resting-State Connectivity Biomarkers

> Pindong Chen, Hongxiang Yao, Betty M. Tijms, Pan Wang, Dawei Wang, Chengyuan Song, Hongwei Yang, Zengqiang Zhang, Kun Zhao, Yida Qu, Xiaopeng Kang, Kai Du, Lingzhong Fan, Tong Han, Chunshui Yu, Xi Zhang, Tianzi Jiang, Yuying Zhou, Jie Lu, Ying Han, Bing Liu, Bo Zhou, and Yong Liu,

for the Alzheimer's Disease Neuroimaging Initiative

» See commentary on page 752

770 Prioritization of Drug Targets for Neurodegenerative Diseases by Integrating Genetic and Proteomic Data From Brain and Blood

> Yi-Jun Ge, Ya-Nan Ou, Yue-Ting Deng, Bang-Sheng Wu, Liu Yang, Ya-Ru Zhang, Shi-Dong Chen, Yu-Yuan Huang, Qiang Dong, Lan Tan, Jin-Tai Yu, and the International FTD-Genomics Consortium » See commentary on page 754

780 Association of Long-term Exposure to Ambient Air Pollution With Cognitive Decline and Alzheimer's Disease-Related Amyloidosis

> Ya-Hui Ma, Hua-Shuai Chen, Cong Liu, Qiu-Shi Feng, Lei Feng, Ya-Ru Zhang, Hao Hu, Qiang Dong, Lan Tan, Hai-Dong Kan, Can Zhang, John Suckling, Yi Zeng, Ren-Jie Chen, and Jin-Tai Yu

790 A Phenome-wide Association and Mendelian Randomization Study for Alzheimer's Disease: A Prospective Cohort Study of 502,493 Participants From the UK Biobank

> Shi-Dong Chen, Wei Zhang, Yu-Zhu Li, Liu Yang, Yu-Yuan Huang, Yue-Ting Deng, Bang-Sheng Wu, John Suckling, Edmund T. Rolls, Jian-Feng Feng, Wei Cheng, Qiang Dong, and Jin-Tai Yu » See commentary on page 756

- 802 Depression, Depression Treatments, and Risk of Incident Dementia: A Prospective Cohort Study of 354,313 Participants
 Liu Yang, Yue-Ting Deng, Yue Leng,
 Ya-Nan Ou, Yu-Zhu Li, Shi-Dong Chen,
 Xiao-Yu He, Bang-Sheng Wu, Shu-Yi Huang,
 Ya-Ru Zhang, Kevin Kuo, Wei Feng,
 Qiang Dong, Jian-Feng Feng, John Suckling,
 A. David Smith, Fei Li, Wei Cheng, and
 Jin-Tai Yu
- 810 Cataract, Cataract Surgery, and Risk of Incident Dementia: A Prospective Cohort Study of 300,823 Participants
 Ling-Zhi Ma, Ya-Ru Zhang, Yu-Zhu Li,
 Ya-Nan Ou, Liu Yang, Shi-Dong Chen,
 Qiang Dong, Jian-Feng Feng, Wei Cheng,
 Lan Tan, and Jin-Tai Yu
- 820 Overlap of Neuroanatomical Involvement in Frontotemporal Dementia and Primary Psychiatric Disorders: A Meta-analysis Hulya Ulugut, Calvin Trieu, Colin Groot, Jochum J. van 't Hooft, Betty M. Tijms, Philip Scheltens, Rik Ossenkoppele, Frederik Barkhof, Odile A. van den Heuvel, and Yolande A.L. Pijnenburg
- 829 Pathogenic Role of RAGE in Tau
 Transmission and Memory Deficits
 Youbin Kim, Hyejin Park, Youngwon Kim,
 Seo-Hyun Kim, Jae Hoon Lee, Hanseul Yang,
 Seo Jin Kim, Cathena Meiling Li, Haneul Lee,

- Do-Hyeong Na, Seowon Moon, Yumi Shin, Tae-In Kam, Han-Woong Lee, SangYun Kim, Ji-Joon Song, and Yong-Keun Jung
- Analysis Identifies Novel DNA Methylation Signatures and Their Target Genes in Alzheimer's Disease Jun Pyo Kim, Bo-Hyun Kim, Paula J. Bice, Sang Won Seo, David A. Bennett, Andrew J. Saykin, and Kwangsik Nho

Integrative Co-methylation Network

CORRESPONDENCE

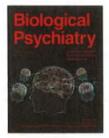
842

e25 Anti-SARS-CoV-2 and Autoantibody
Profiling of a COVID-19 Patient With
Subacute Psychosis Who Remitted After
Treatment With Intravenous
Immunoglobulin

Lindsay S. McAlpine, Brooke Lifland, Joseph R. Check, Gustavo A. Angarita, Thomas T. Ngo, Peixi Chen, Ravi Dandekar, Bonny D. Alvarenga, Weston D. Browne, Samuel J. Pleasure, Michael R. Wilson, Serena S. Spudich, Shelli F. Farhadian, and Christopher M. Bartley

ERRATUM

852 Erratum to: MEF2C Hypofunction in Neuronal and Neuroimmune Populations Produces *MEF2C* Haploinsufficiency Syndrome-like Behaviors in Mice



In this issue, P. Chen et al. (pages 759–769) report their analysis of brain network data, which revealed 4 Alzheimer's disease subtypes that show distinct patterns of brain network impairments and differences in cognitive ability, structural atrophy, and longitudinal cognitive changes. The cover image illustrates these findings, showing the network of an Alzheimer's disease brain in the center, surrounded by the specific brain networks identified as affected in each of the 4 subtypes. Image credit to Ye Yue.



= content available online only