

Table of Contents

Articles.....

Biological Neural Networks as the Forefront of AI Processing	
Edward Lin.....	1
The Role of Human Leukocyte Antigens in Multiple Sclerosis and Brain Atrophy	
Tanisha Mandal.....	6
The Critical Window for Estrogen Replacement Therapy in Menopausal Women: Exploring the Neuroprotective Effects of Estrogen in Reducing Dementia Risk	
Sylvia Merz.....	11
The Consequential Effects of Sleep Quality on the Academic Performance of University Students	
Siwon Park.....	16
Understanding the Different Types of Cerebral Palsy and Treatment Options	
Leah Rupp.....	22
Isolation - How it Affects Fear Responses and Anxiety	
Ananya Sampathkumar.....	26
The Detrimental Effects of Aberrant Regulation on the Hedgehog Signaling Pathway	
Emily Aldrich.....	31
The Influence of Maternal Stress on a Child's Development in the Womb and the Long-term Effects on the Child's Neurodevelopment and Mental Health	
Alexa DiVito.....	36
Can We Train Our Brains to Break Social Media Addiction?	
Meha Goswami.....	40

Curcumin and Glioblastoma: How Turmeric Can Be a Dietary Supplement Against Brain Cancer	
Kathryn Kennedy.....	45
Understanding the Genetics of ADHD	
Meredith Kremitzki.....	49
The Development of Psychogenic Pain	
Lily Kushnick.....	54
Genetic Research and its <i>Revolutionary?</i> Contributions to Schizophrenia Prevention	
Brianna Mae Huner.....	59
Pathophysiology of Postpartum Depression: Etiology and Interplay of Structural and Functional Brain Changes	
Sylvia Merz.....	64
The Ethics of Brain-Computer Interfaces (BCIs)	
Ruchi Prakash.....	69
Meet the Board.....	73
About the Writers.....	85