

Topics ALS 2019

- 1129 **A Brief Review on Recent Epidemiologic Literature and Risk Factors of Amyotrophic Lateral Sclerosis**
Yugo Narita
- 1138 **Development of Diagnostic Criteria**
Hiroyuki Nodera
- 1145 **Split Hand: characteristic neurological symptoms in ALS**
Kazumoto Shibuya
- 1152 **Neuropathology of Amyotrophic Lateral Sclerosis**
Mari Yoshida
- 1169 **Familial Amyotrophic Lateral Sclerosis**
Naoki Suzuki, et al.
- 1183 **Molecular Pathogenesis of Amyotrophic Lateral Sclerosis**
Shintaro Tsuboguchi, et al.
- 1190 **Impact of C9orf72 on Japanese Patients with Amyotrophic Lateral Sclerosis (ALS)/Frontotemporal Dementia (FTD)**
Hiroyuki Tomiyama
- 1209 **The Propagation Hypothesis of Prion-like Protein Aggregates in Neurodegenerative Diseases**
Takashi Nonaka
- 1215 **The Role of Patient Registry in the Care and Therapeutic Development for Patients with Amyotrophic Lateral Sclerosis: JaCALS**
Naoki Atsuta, et al.
- 1227 **Amyotrophic Lateral Sclerosis and Frontotemporal Dementia**
Yasuhiro Watanabe
- 1236 **The Current State of Amyotrophic Lateral Sclerosis/Parkinsonism-Dementia Complex in the Kii Peninsula, Japan, 2019**
Yasumasa Kokubo
- 1245 **Edaravone: A New Treatment for ALS**
Toru Yamashita and Koji Abe
- 1253 **Application of Hepatocyte Growth Factor for Amyotrophic Lateral Sclerosis**
Masashi Aoki, et al.
- 1261 **JETALS: The Japanese Early-stage Trial of high dose methylcobalamin for ALS**
Yuishin Izumi, et al.
- 1270 **Perampanel for Sporadic Amyotrophic Lateral Sclerosis**
Hitoshi Aizawa and Shin Kwak
- 1279 **Ropinirole Hydrochloride for ALS**
Shinichi Takahashi, et al.
- 1289 **Immunotherapy Against Misfolded Proteins in ALS**
Makoto Urushitani, et al.

Case Report

- 1303 **Distal-type Cervical Spondylolisthesis Muscular Atrophy in a Patient with Dupuytren Contracture: A Case Report**
Kimiharu Fuseya, et al.