Q-AOS Kyushu University Institute for Asian and Oceanian Studies

No.018

Brown Bag Seminar

ブラウンバッグセミナー

Online (Zoom) Recorded data will be uploaded

Supported by Kyushu University,Q-AOS & TEMDEC

2021.8.25 (Wed.)

Scan here for Registration

JP↔EN Simultaneous Interpretation

12:10 ~ 12:50

12:10-12:15 ◆ Introduction
12:15-12:40 ◆ Seminar (Presentation)
12:40-12:50 ◆ Q&A

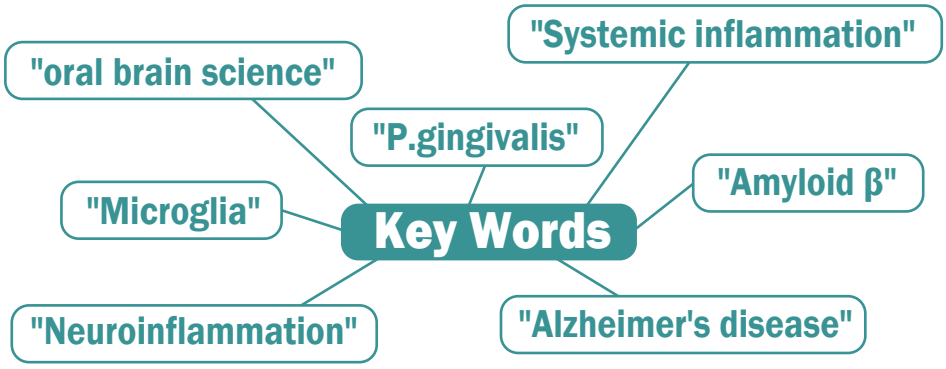
https://zoom.us/webinar/register/WN_5_nUchiDT4GmnXauYwIZPw

Mechanism linking Oral infections to Alzheimer's disease

Chair: Assoc. Prof. Fumihiko Yokota (Research Promotion Coordinator of Q-AOS)

3 GOOD HEALTH AND WELL-BEING

Alzheimer's disease (AD), which accounts for 70% of dementia, is rapidly increasing in the aging society, AD induces a huge medical cost and a serious social burden because the cure for it has not been established. On the other hand, numerous reports show that oral infections are associated with AD. As a part of my research on the effects of systemic inflammation on brain function for many years, I am studying the involvement of the oral infection in AD. In this seminar, I will explain the involvement mechanism of P. gingivalis in AD and introduce the idea of oral brain science. We propose "reduction of inflammation and oral care" as the realistic approaches for delaying the onset and progression of AD.



Associate Professor
Zhou Wu, PhD

Kyushu University Faculty of Dental Science

Zhou Wu is a Associate Professor and Principal investigator at Kyushu University, Oral health・Brain health・Total health (OBT) Research Center of Faculty of Dental Science. She received a Master of Medicine at Jilin University, China in 1993 and Ph.D. in Dental Science at Kyushu University in 2001 . She had been awarded a JSPS Postdoctoral Fellowship for Research in Japan from 2002 to 2004. For more than 20 years, She has been consistently researching the effects of systemic inflammation (including periodontal disease) on brain functions, and in recent years she has been leading the world in research on the mechanism of involvement of Alzheimer's disease caused by gum disease. In 2017, she discovered that P. gingivalis component, the gum disease-causing bacteria, induced the Alzheimer's disease-like brain pathology and identified the involving enzymes. In 2019, her research group discovered that amyloid b, a brain-specific pathological factor for Alzheimer's disease, was produced in the gums of patients with periodontal disease. In 2020, her research group discovered that P. gingivalis infection promoted and induced the amyloid b produced outside the brain influxing into the brain. A series of research results are attracting attention not only from academic medical areas, but also from society. She is conducting joint research with researchers in Japan and overseas including United States, United Kingdom, Canada and China. she is an international researcher at University of Southampton (United Kingdom) and a visiting professor at universities at China.

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