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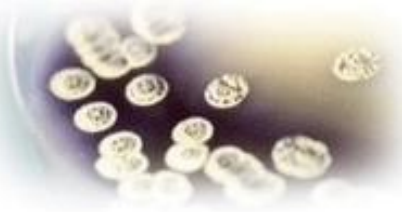

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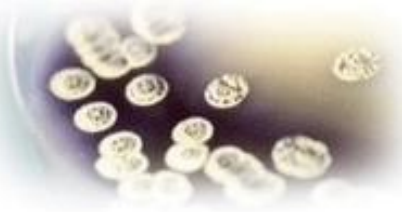

Research Interest

- Neurosciences
- Neuroinflammation
- Neurodegeneration
- Brain Tumor
- Neuropharmacology
- Neuropsychoimmunology

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The roles of microglia in neuroinflammatory responses

- Interested in examining the types of agents that may potentiate the inflammatory responses in microglia.
- In recent years, it have been demonstrated that, except gram-negative bacterium, peptidoglycan, a gram-positive bacterium can regulate anti-and pro-inflammatory responses in microglia by using in vivo or in vitromodels

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- A considerable amount of research has shown that microglial inflammation has a crucial role in neuronal cell damage. Accordingly, I have started to take more critical perspectives on the reciprocal effects between neuropsychopathology and microglial inflammation. With respect to the early identification of microglial inflammation, the up-regulation of CXCR4 receptors and other inflammatory cytokines such as AMPK, iNOS, or HO-1in microglia appear to mediate neuronal cell damage. Thus, I have begun to address the pharmaceuticals that have potentials to prevent excessive microglial inflammation in terms of neuroprotection.

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Mechanisms underlieneurodegenerativediseases

- By using hypoxia model, it was previously found that the elevated level of MMP-9 and MMP-13in astrocyte can enhance permeability of brain endothelial cells which have a role in neurodegenerative diseases. The cytoprotective effect of astrocytes to neurons is also shown by up-regulation of HO-1 with the administration of berberine. With respect to neuro-protection, the antidepressant, desipramine, also appears to regulate HO-1 through ERK and JNK pathways in dopaminergic cells, which postulates an insight for neuro-psycho-protection.

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Mechanisms of glioma-associated neuro-oncology

- Concerning that glioma is a highly aggressive malignant tumor with poor prognosis, I am very interested in the issue surrounding the glioma development, growth and migration in terms of how gliomas are developed and what factors that modulate glioma cell migration. I have previously found that ghrelin, which is a gastric peptide, and IL-18 can promote migratory activity in glioma cells. Recently, I have shown the effect of GDNF on glioma cell motility. The higher GDNF levels are also identified in both colon and oral cancer cells, by which GDNF can serve as a diagnostic indicator for glioma cell migration.

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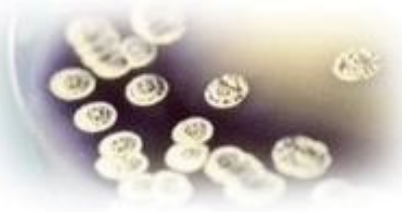
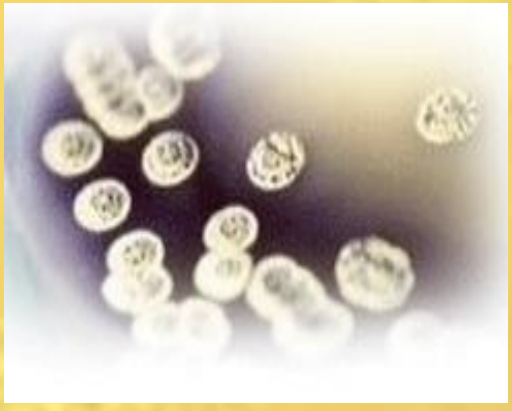


- I am also seeking for Chinese herbals that can trigger inhibitory effect on glioma cells. Prenyl-phloroglucinol derivatives(BFP) and wogon in have been successfully shown to exert ER stress in glioma cells. In addition to my research, I am collaborating with clinicians from Tzu Chi Hospital, China Medical Unicersity and Dr. Chih-Hao Lee from Harvard University to examine whether the metabolic syndrome, and different types of neuropathology might contribute to neuroinflammation.

Cell Science & Therapy Related Journals

- Cell & Developmental Biology
- Single Cell Biology
- Journal of Stem Cell Research & Therapy



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