

# Genetic and neuroinflammatory components of familial and sporadic cerebral Small Vessel Disease

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## **Propositions**

### **Genetic and neuroinflammatory components of familial and sporadic cerebral Small Vessel Disease**

**Takashi Koizumi, 28 August 2019**

1. Cerebral Small Vessel Disease (cSVD) should be diagnosed and treated early to prevent dementia. (Chapter 1)
2. CADASIL scale-J is a useful tool to prioritize genetic testing for CADASIL-suspected patients in Japan. (Chapter 2)
3. The number of evidences supporting the contribution of neuroinflammation to cerebrovascular dysfunction is increasing. (Chapter 3).
4. Hypertension and diabetes are crucial risk factors for sporadic cSVD (This thesis)
5. Chronic hypertension can induce dynamic microglial changes before the onset of cerebrovascular dysfunction. (Chapter 4)
6. Metabolic syndrome can accelerate the activation of perivascular immune cells. (Chapter 5)
7. Perivascular immune cells—perivascular microglia and perivascular macrophages—should be considered as potential targets to prevent cSVD.
8. Science literacy is the artery through which the solutions of tomorrow's problems flow. (Neil deGrasse Tyson)
9. In the long run, the sharpest weapon of all is a kind and gentle spirit.  
(Anne Frank)
10. A journey of a thousand miles begins with a single step: 千里の道も一歩から (Lao Tzu).