1. No.
   2019Y013

2. Title
   Comprehensive analysis of the effect of electrophiles derived from cigarette on neurogenesis and neuro differentiation

3. Period
   2019-2021

4. Summary
   This study focusses on the epigenetic regulation of electrophilic substances, a component of tobacco content, and to comprehensively analyze their effects on neuronal viability and differentiation. The fact that most analyses of epigenetic mechanisms in neural stem cells require a great deal of labor and expense is also a major problem, and research has been conducted with the aim of establishing an efficient and easy epigenetics analysis for measuring neuronal differentiation. Although there are still some problems to be solved, such as efficiency, we believe that the analysis system established in this study is applicable to various cell types. In addition, some electrophiles have been suggested to induce neuronal differentiation, and we will continue to analyze their functions and to examine the effects of other tobacco derived electrophiles on neuronal differentiation and regeneration.