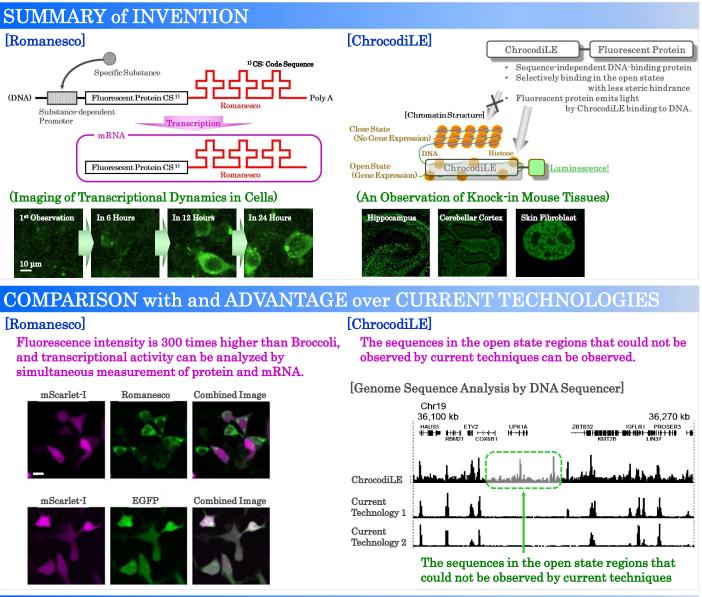
## Nucleic Acid Binding Proteins (Romanesco/ChrocodiLE)

## **KEY INVENTION**

© Romanesco is induced to the target promotor to visualize the dynamics of mRNA in living cells.

- $\odot$  ChrocodiLE sequence-independently binds to DNA in the open state to track the change of the genome
- 3D Structure over time in living cells.

## The dynamics of nucleic acids (DNA and mRNA) can be visualized in living cells.



## APPLICATION expected

- © Probes for tracking the internal behavior of drug-responsive genes (drug-metabolizing enzymes, etc.)
- © Analysis of genes expressed in living cells during neuronal differentiation and neuronal repair in specific neural tissues
- Imaging of genes expressed in specific diseases (cancer, diabetes, Alzheimer's disease, etc.) in live cells

Contact:	IP Management & Licensing Group, Department of Intellectual Property Management, JST
	TEL) +81-3-5214-8486 email) <u>license@jst.go.jp</u>
	URL) www.jst.go.jp/chizai/
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