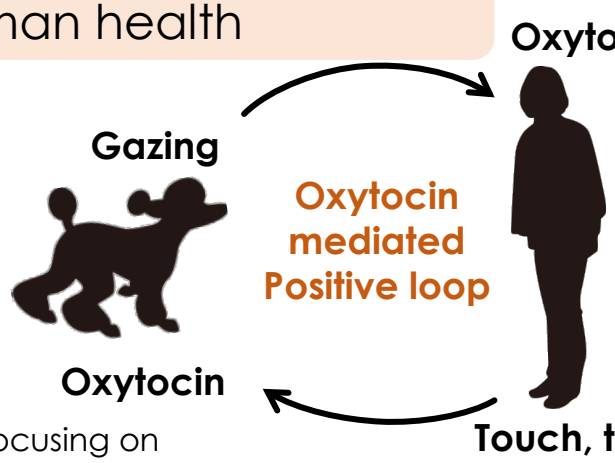
Dr. Kikusui

Gene-Neuro-Behavioral approach to revealing the human-dog interaction and it's effects on human health

Backgrounds

- Dog genetically acquires human-like communication skills.
- Through the interaction, oxytocin, a social hormone, secreted in both side
- These interactions enhance human physical/mental health.



(Nagasawa, Science 2015)

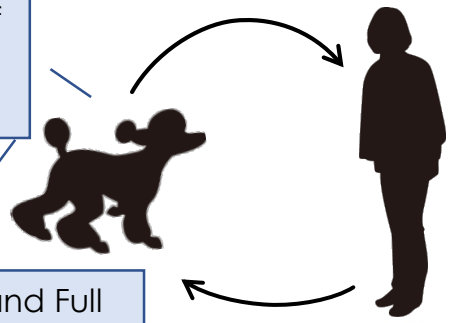
Goals

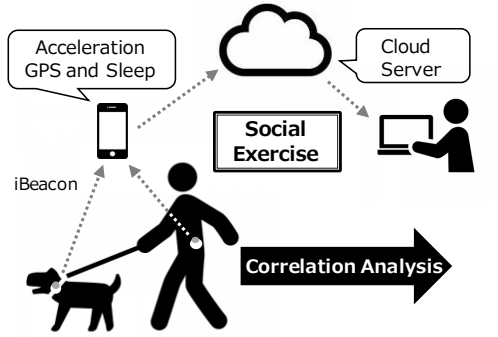
- Revealing cognitive-interaction structure between human-dog, focusing on micro- and macro-interaction.
- Elucidation of the role of veterinary medicine contributing to human health.
- Uncover the responsible genes responsible for the behavioral domestication

Approaches

1) Micro-cognitive analyses of human-dog interaction by Motion capture

2) Correlation analysis of behavioral synchronization between human dogs by Beacon-could system and health change in humans





3) Association analysis of dog disease recovery by veterinary medicine and human health promotion effect

4) GWAS and Full genome sequencing for detecting behavioral genes (more than 300 cases)