

Doctoral thesis outline for the social placebo effect

Study1: Identifying the social placebo effect

EXP01: Experimental design and its validation

online exp#1 (OT materials were able to induce expectation)

online exp#2 (OT materials and Robot materials were matched)

online exp#3 (OT or Robot materials alone would not be different on affecting behaviors)

EXP02: social placebo effect on backbone of prosocial behaviors

SPE on trust, social distance, and resource allocation

EXP03: social placebo effect on social affective feelings

SPE on empathy, social emotion (FOF)

EXP04: gender effect

Study2: Comparing SPE and real oxytocin effect

EXP01: OTE on trust, social distance

EXP02: OTE on social emotion (FOF)

Study3: Neural substrates of SPE

EXP01: fMRI on Trust game

EXP02: fMRI on amygdala task

EXP03: fMRI on social reward

Study4: Pharmacological bases of SPE

EXP01: OT effect on SPE

EXP02: AT effect on SPE

Study5: SPE in real-life social interaction and its evolutionary pattern in artificial society

EXP01: SPE on real-life social distance

EXP02: SPE on real-life social trust

TG

EXP03: SPE on real-life cooperation

PD

EXP04: SPE on real-life competition

social bandit competition game

EXP05: SPE on resource allocation

UG

Study6: General neural account for placebo effect

FSPE