

# Introduction

引入SPE

引入OT以及说明SPE与真正的OT效应类似

总结之前PE的研究以及对应的主要的分子

Hypothesis:  
Oxytocin is the key  
pharmacological  
components of SPE?

这两条线二选一

从WHO对healthy的定义角度来引入SPE，表明SPE是一个全新domain (social domain) 的概念

prosocial behaviors is critical for society and serve as backbone of human evolutionary ; 安慰剂效应提升prosocial

1. brief introduction for SPE manipulation;  
2. brief introduction for OT;  
3. evidence----OTE and SPE is similar

现实例子:

1. prosocial behaviors in COVID-19 like sharing mask, food resource will alleviate the spreading of virus
2. 日本核废水排放政策，缺乏prosocial

实验证据:

trust  
如何影响社会经济发展，如何影响合作以及他们的进化意义

2020, Self-awareness based resource allocation strategy for containment of epidemic spreading

paper from economic  
paper from exp-economics and theory of Nowak

Pain placebo

opioid

Parkinson

Dopamine



# Design

Group	1st	2nd
1	Spray+ 盐水	Control 盐水
2	Spray+ OT	Control OT
3	Spray+ 盐水	Control OT
4	Spray+ OT	Control 盐水
5	Spray+ AT	Control 盐水
6	Spray+ AT	Control OT

Within- subject design