# Title Page

# Gene expression analysis in peripheral blood of first episode psychosis patients

Short Title: Expression analysis in blood of psychosis patients

# Abstract:

**Keywords:**

**Abbreviations:**

# 1.0 Introduction

Copy Introduction back in.

# 2.0 Methods and Materials

## 2.1 Ethics

Copy

## 2.2 RNA processing and Quality Control

Copy

## 2.3 Differential gene expression analysis

Copy

## 2.3 Weighted Gene Co-expression Network Analysis

Copy

## 2.4 Gene enrichment analysis

## copy

## 2.5 Post hoc analysis of medication

## Describe stats, only have AF vs Control, Med vs Control, Med vs AF.

Supplementary, add Ola and Ris vs Control and AF (4 categories).

Also Describe Medication added in WGCNA.

# 3.0 Results

## 3.1 Sample Characteristics

Basically copy. Add med data

## 3.2 Differential Expression analysis

Copy and edit heavily

## 3.3 Weighted Gene Co-expression Network Analysis

Copy and edit Heavily

## 3.4 Functional Enrichment analysis

Copy and edit heavily

## 3.5 Post hoc analysis of medication

Describe results. Namely in reduced data, we see large statistically significant differences between AF and Control, and Med vs Control. Med vs Control, is more, AF has more logFC spread.

# 4.0 Discussion

## 4.1 Glutamate

Rewrite and purge

## 4.2 Platelets and DiGeorge syndrome

Rewrite and purge

## 4.3 Defensins

Rewrite and purge

## 4.4 WGCNA

Rewrite and purge

## 4.5 Enrichment Results

Rewrite and purge

## 4.6 Confounding by medication

Summary of WGCNA and volcanoplots. Note medication results are limited and cannot fully be addressed. Spread is more pronunced in AF than antipsychotics. May indicate effect of antipsychotics. Too noisy to be able to eliminate the possibility that medication has no effect. But the authors interpretation is that an effect is liekly which is backed by the literature., The extent of this is debatable.

Mention directionality in modules. BMI and Tobacco are included.

## 4.7 Conclusion and Limitations

Copy and edit

# Acknowledgements:

# Financial Disclosures:

# References:

# Table/Figure Legends: