

LIST OF ABBREVIATIONS

- RGS4: Regulator of G Protein Signaling 4
- DISC1: Disrupted in schizophrenia 1
- NRG1: Neuregulin 1
- DAOA: D-Amino Acid Oxidase Activator
- CHRNA7: Cholinergic Receptor Nicotinic Alpha 7 Subunit
- COMT: Catechol-O-methyltransferase
- PRODH: Proline Dehydrogenase
- AKT1: AKT Serine/Threonine Kinase 1
- DRD3: Dopamine Receptor D3
- DTNBP1: Dystrobrevin Binding Protein 1
- HTR2A: 5-Hydroxytryptamine Receptor 2A
- SLC6A4: Solute Carrier Family 6 Member 4
- ZDHHC8: Zinc Finger DHHC-Type Containing 8
- NMDA: N-methyl-D-aspartate
- RNAi: RNA interference
- miRNA: microRNA
- shRNA: short hairpin RNA
- siRNA: Small interfering RNA
- PEI: Polyethylenimine
- FT-IR: Fourier-transform infrared spectroscopy
- NMR: Nuclear magnetic resonance
- GABA: Gamma-aminobutyric acid
- LSD: Lysergic acid diethylamide
- MRI: Magnetic resonance imaging
- DSM-5: Diagnostic and Statistical Manual of Mental Disorders, Fifth edition
- FGA: first generation antipsychotic
- SGA: second generation antipsychotic
- TMAP: Texas Medication Algorithm Project
- ECT: electroconvulsive therapy
- SNPs: short nucleotide polymorphisms

- PI3-kinase: phosphoinositide-3-kinase
- MAP: mitogen-activated protein
- NTF: N-terminal fragment
- dsRNAs: double stranded RNAs
- RISC: RNA-induced silencing complex
- Ago: Argonaute
- TLR: Toll like receptor
- RIG1: retinoic acid-inducible gene 1
- CPP: Cell penetrating peptides
- PLGA: polyD,L-lactide-co-glycolide
- PAMAM: Polyamidoamine
- PPI: polypropyleneimine
- BBB: Blood brain barrier
- BCSFB: blood cerebrospinal fluid barrier
- CDI: Carbonyldiimidazole
- DEPC: Diethyl pyrocarbonate
- EDC: 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide
- NHS: N-Hydroxysuccinimide
- HA: Hyaluronic acid
- Lf: Lactoferrin
- Chi: Chitosan
- RSD: Relative standard deviation
- TAE buffer: Tris-acetate-EDTA buffer
- HDD: Hexanediol diacrylate
- %MBE: % mucin binding efficiency
- MEM: Minimum essential medium
- PBS: Phosphate buffer saline
- MTT: 3-(4, 5-dimethylthiazolyl-2)-2,5-diphenyltetrazolium bromide
- FACS: Fluorescence activated cell sorter
- BSA: Bovine serum albumin
- PCR: Polymerase chain reaction
- NCBI: National Center for Biotechnology Information

- TAMC: Total aerobic microbial count
- TYMC: Total yeast mould count
- TSA: Tryptone soy agar
- SDA: Sabouraud Dextrose Agar
- CFU: Colony forming units
- IAEC: Institutional Animal Ethical Committee
- CPCSEA: Committee for the Purpose of Control and Supervision of Experiments
on Animals