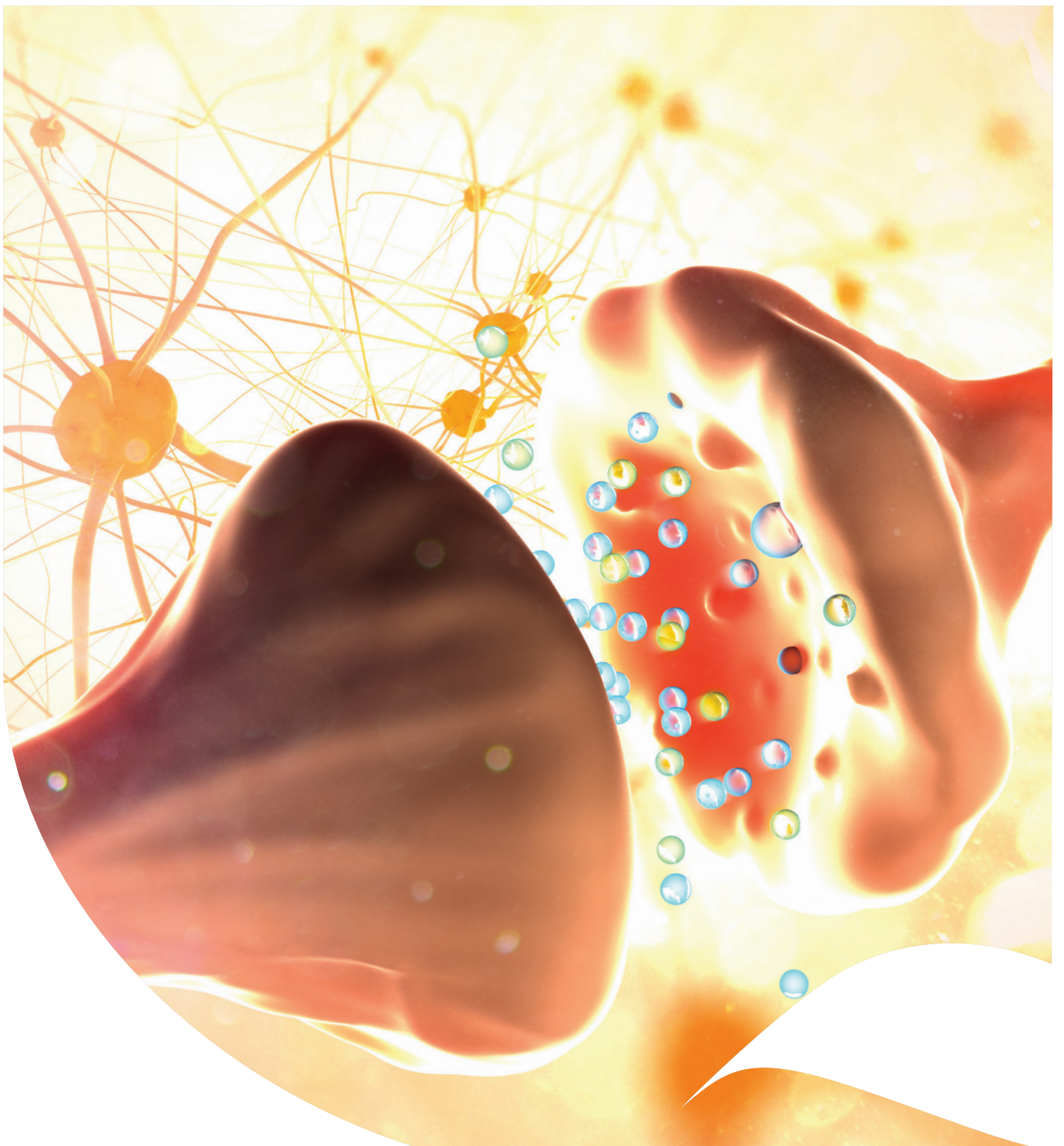


Biomedical Sciences

Neurotransmitter/Neurochemical Quantitation



- We offer new methods to simultaneously measure a range of neurotransmitters and metabolites from any sample.
- We utilise state-of-the-art LC-MS/MS methodology to provide full quantitation of analytes coupled with standard curves.
- We have the ability to determine concentrations in a wide range of biological fluids or tissues from any animal or human species.
- Analyses can be easily coupled with efficacy studies in neurodegenerative disease or psychiatry models to allow full quantitation of drug activities.

Currently available as fully-quantitated neurotransmitters:

3,4-Dihydroxymandelic acid
 3,4-Dihydroxyphenylacetic acid
 3,4-Dihydroxyphenylalanine
 3,4-Dihydroxyphenylglycol
 3-Hydroxyanthranilic acid
 3-Hydroxykynurenine
 3-Meth-4-hydroxyphenylglycol
 3-Methoxytyramine
 4-Aminobutyric acid
 5-Hydroxyindoleacetic acid
 5-Hydroxytryptophan
 5-Hydroxytryptophol
 5-Methyltetrahydrofolic acid
 Acetylcholine
 Adenosine
 Agmatine
 Alanine
 Anserine
 Arginine
 Asparagine
 Aspartate
 B-Alanine
 N-Acetylputrescine
 N-Acetylserotonin
 Biotin
 Betaine
 Carnosine
 Choline
 Citrulline
 Cysteic acid
 Cysteine
 Dimethyl glycine
 Dihydroxybenzoic acid
 Dopamine

Epinephrine
 Ethanolamine
 Folic Acid
 Glucose
 Glutamate
 Glutamine
 Glutathione
 Glycine
 Histamine
 Histidine
 Homocysteic acid
 Homocysteine
 Homoserine
 Homovanillic acid
 Hypotaurine
 Kynurenic acid
 Kynurenine
 Kyotorphin
 Leucine
 Lysine
 Leucine/isoleucine
 Methionine
 Nicotinamide
 Neopterin
 Norepinephrine
 Normetanephrine
 Octopamine
 Ornithine
 Pantothenic acid (B5)
 Phenethylamine
 Phenylalanine
 Proline
 Putrescine
 Pyridoxine
 Riboflavin
 Serine
 Serotonin
 Spermidine
 Spermine

Synephrine
 Taurine
 Thiamine
 Threonine
 Tryptamine
 Tryptophan
 Tyramine
 Tyrosine
 Valine
 Vanillylmandelic acid
 Vitamin B12

Also currently available as fully-quantitated short-chain fatty acids and metabolites

Acetic acid
 Propionic Acid
 Isobutyric Acid
 Butyric Acid
 2-methylbutanoic acid
 Valeric Acid
 3-methyl-valeric acid
 hexanoic acid
 3-OH-butyric acid
 Acetoacetate
 4-methylvaleric acid
 Isovaleric acid

Contact

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UQ's School of Biomedical Sciences

The University of Queensland's School of Biomedical Sciences is making ground-breaking advances in modern medical science and providing students with the theoretical and practical skills for an exciting career in academia and industry.

Our innovative research encompasses the research spectrum from basic discovery through translational pathways to medical solutions, including:

- Investigation of cellular processes such as protein trafficking, cell signalling and organelle function.
- Study of how the dysregulation of bodily processes can cause serious human disorders such as infertility, Alzheimer's disease and autism.
- Musculoskeletal and neuromotor analyses to improve whole-body movement performance.
- Novel approaches to heal conditions such as spinal injury, motor neuron disease and cancer.



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