



# OUR TECHNOLOGY

We're employing two next-generation patented delivery technologies, via **systemic** and **non-systemic** routes of administration, to increase the **safety** and **efficacy** of psychedelic compounds.



Zappy Details the Psycheceutical Advantage



# What is a Psycheceutical?



Our patented technologies allow for the delivery of target doses of any psychedelic compound directly to the targeted cells, bypassing the liver and any associated toxicity.

Systemic Janus Particles Solution

Non-Systemic Novel Delivery Technology

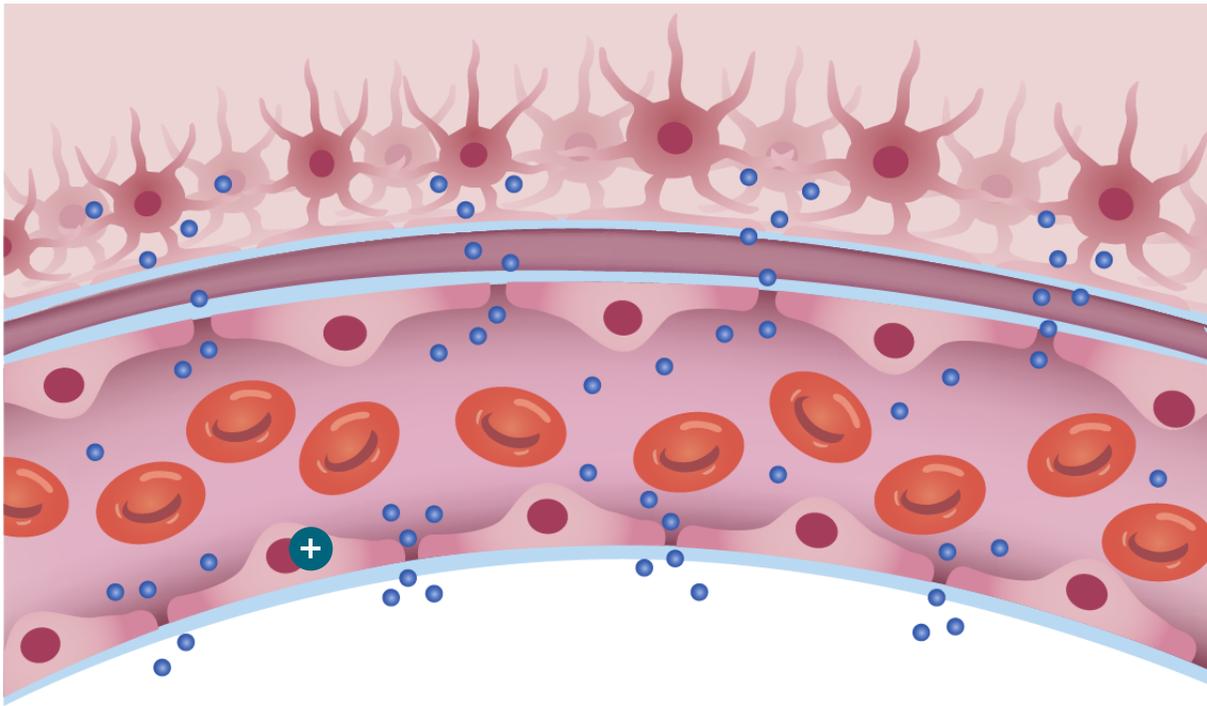


Systemic Janus Particles Solution    Non-Sys

Our patented Janus particles manufacturing process enables the delivery of target doses of any psychedelic compound directly through the blood-brain barrier, bypassing the liver and any associated toxicity.

## Direct Delivery to Targeted Cells

- Extremely small size (less than 100nm diameter)
- Easily metabolized and utilized by the body's cells after delivery of actives
- Compounds are delivered intact to target cells for highest efficacy, reducing toxicity or side effects
- Multi-layered particles that enable immediate and sustained relief



Patented fabrication technologies enable optimization for each therapeutic need:

- Efficient production of a high variety of particles.
- Easy to tune size, shape, and composition.
- Able to avoid body's cellular immune system RES (Reticulo-Endothelial System).
- Provides circulating reservoir of encapsulated actives with improved serum half-lives.
- Reduces potential toxic bolus effect of non-encapsulated administered actives.
- Immediate and sustained release.

- Combination of multiple actives delivered in one particle.



## Fundamental Advantages and Impact:

- Increased solubility
  - Increased cellular uptake
  - Decreased clearance from the body
  - Decreased accumulation in organs
  - Allows targeting
  - Allows dual-dosing
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- Issued and pending patents provide worldwide exclusivity for manufacturing and sale of products.
  - Uniform ultra-small nanoparticle structure (less than 100nm diameter) is able to avoid the body's immune system.
  - High loading of active compounds provides low loss of non-sequestered actives and improved manufacturing efficiencies.
  - Multi-phasic particles enable immediate and sustained delivery.

- Excellent product stability provides long shelf life in a wide range of temperature storage conditions.
- Multi-layered particles enable delivery of multiple actives from a single dose.
- Ability to deliver compounds across the blood-brain barrier provides a new method for direct delivery of actives directly into the brain.
- Ability to adapt to oral, mucosal, topical, and parenteral administration provides flexibility in choice of finished dosage formulations.

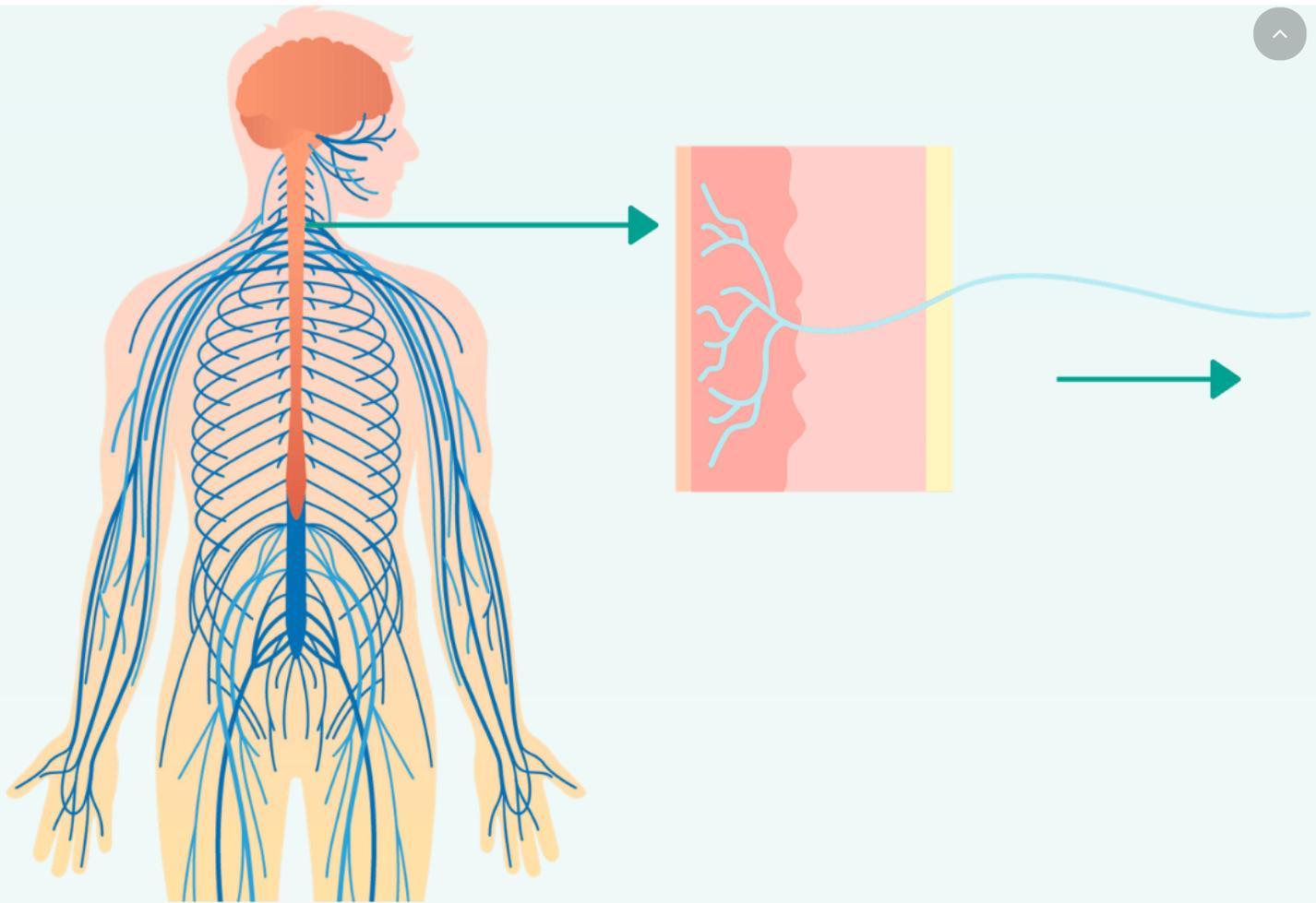
Our patented NeuroDirect™ delivery technology is a novel approach to deliver neuro-active compounds directly into the nerve tissue, bypassing the liver and any associated toxicity.



## Non-Systemic Novel Delivery Solution

- Topical compound is applied at the back of the neck at the hairline
- Penetrates peripheral nerve endings
- Provides a direct avenue to neural tissue within the brain
- Nerve endings travel along the spinal cord
- Bypasses the blood-brain barrier





- The NeuroDirect™ delivery introduces neuro-affective agents directly into nerve tissue, resulting in much lower dosing and excreted components.
- Following nerve pathways to the target tissue allows for smaller doses, improved efficacy of the active compound, and immediate action in minutes.
- The NeuroDirect™ delivery has shown to produce symptom reduction in as little as 10-15 minutes.



- The NeuroDirect™ lower dosage delivery has shown symptom reduction without significant adverse reactions.
- This patented topical administration of psychedelic compounds eliminates their hallucinogenic effects, allowing for wider medical adoption and use.
- The NeuroDirect™ targeted delivery limits undesired non-targeted distribution throughout the body, vastly reducing exposure to drug toxicities and side effects.



## PSYCHECEUTICAL

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