

# Target Selective Drug Delivery Peptide Capable of Crossing the Blood Brain Barrier



CASE ID: UA 607-24

## BACKGROUND

In light of the current opioid use epidemic, research in the area of alternative pain therapies is extremely important. Peptides with increased selectivity that can deliver cargo and penetrate the blood brain barrier are thus needed.

## DESCRIPTION

A UAF professor has engineered a target selective dual drug delivery system that is able to deliver cargo into the brain by a single intravenous injection. The peptide has potential to enhance treatment for neurological disorders and to alleviate depressive symptoms without the drawbacks of traditional antidepressants, offering a potentially faster-acting and more effective treatment option.

## ADVANTAGES

- Target selective
- Capable of transporting cargo
- Capable of crossing the blood brain barrier

## APPLICATIONS

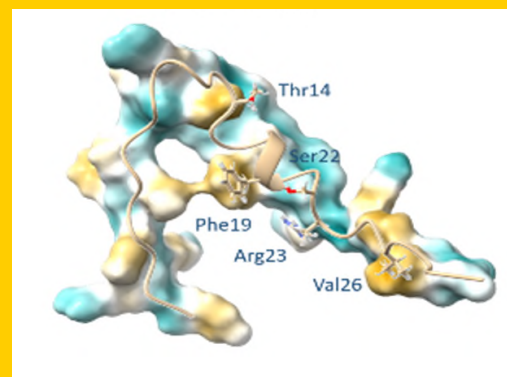
- Pharmaceuticals: Drug delivery systems for crossing the blood brain barrier
- Potential treatment for inflammation, chronic pain, depression
- Prospective impact: enhance treatment potential for neurological disorders

## INTELLECTUAL PROPERTY

- US Patent Application No. 18/422,865

## OPPORTUNITY

- Available to license



*Molecular model of peptide.*



*Maegan Weltzin*

## INVENTOR

Dr. Maegan M. Weltzin

## CONTACT

David Park  
Interim Director, OIPC  
dspark@alaska.edu  
907.474.2605

