



UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER

Technology Transfer & Commercialization

## "Green" Additives for Controlling Zebra Mussel Fouling

### Learn more!

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### Technology Case

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### Our Inventors

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### Patent Status

PCT Application filed

### Publications

"Exploration of structure-antifouling relationships of capsaicin-like compounds that inhibit zebra mussel (*Dreissena polymorpha*) macrofouling" *Biofouling*, 23 (5): 295 (2007)

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## Discovery

- Water treatment additives have been developed for controlling the fouling of zebra mussel fouling on fresh water surfaces

## Features

- Compared to existing antifoulant additives:
  - More efficacious
  - More environmentally friendly
  - Safer to handle
- No toxicity towards non-target organisms

## Benefits

- Suitable for treatment of public fresh water systems
- Reduced fouling and related mechanical malfunctions of locks, valves, and ship ballast systems

## Opportunities

- The continued dispersal of zebra mussels westward through North American inland waters and the establishment of populations in 22 US states has resulted in nationwide costs estimated at a staggering one billion dollars annually
- Of primary concern in freshwater is clogging by nuisance species of water exchange conduits for industrial, agricultural and municipal facilities, such as power plants, factories, water and sewage treatment plants, and irrigation systems

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