Research outputs:

Preparation and Characterization of an Oral Vaccine Formulation Using Electrosprayed Chitosan Microparticles
Research output: Research - peer-review › Journal article – Annual report year: 2018

Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing
Research output: Research - peer-review › Book chapter – Annual report year: 2018

Development of electrosprayed mucoadhesive chitosan microparticles
Research output: Research - peer-review › Journal article – Annual report year: 2018

Electrospun Xanthan gum-Chitosan nanofibers as delivery carrier of hydrophobic bioactives
Research output: Research - peer-review › Journal article – Annual report year: 2018

In vitro permeability enhancement of curcumin across Caco-2 cells monolayers using electrospun xanthan-chitosan nanofibers
Research output: Research - peer-review › Journal article – Annual report year: 2018

Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions
Research output: Research - peer-review › Journal article – Annual report year: 2018

Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid Hybrid Nanofibers
Research output: Research - peer-review › Journal article – Annual report year: 2018

Phytase-mediated enzymatic mineralization of chitosan-enriched hydrogels
Research output: Research - peer-review › Journal article – Annual report year: 2018

Use of Electrohydrodynamic Processing for Encapsulation of Sensitive Bioactive Compounds and Applications in Food
Research output: Research - peer-review › Journal article – Annual report year: 2018

Bioinspired, biomimetic, double-enzymatic mineralization of hydrogels for bone regeneration with calcium carbonate
Research output: Research - peer-review › Journal article – Annual report year: 2017

Electrospinning of food proteins and polysaccharides
Research output: Research - peer-review › Journal article – Annual report year: 2017
Electrospinning of Xanthan Polysaccharide
Research output: Research - peer-review › Journal article – Annual report year: 2017

Electrospun Phospholipid Fibers as Micro-Encapsulation and Antioxidant Matrices
Research output: Research - peer-review › Journal article – Annual report year: 2017

Electrospun Polymer Fiber Lasers for Applications in Vapor Sensing
Research output: Research - peer-review › Journal article – Annual report year: 2017

Electrostatic Self-Assembly of Polysaccharides into Nanofibers
Research output: Research - peer-review › Journal article – Annual report year: 2017

Enzymatic, urease-mediated mineralization of gellan gum hydrogel with calcium carbonate, magnesium-enriched calcium carbonate and magnesium carbonate for bone regeneration applications
Research output: Research - peer-review › Journal article – Annual report year: 2017

Hybrid hydrogels by the co-assembly of chitosan with phospholipids
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

The electrospinning of xanthan gum: from solution to nanofiber formation
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Chitosan/Phospholipids Hybrid Nanofibers and Hydrogels for Life Sciences Applications
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Co-assembly of chitosan and phospholipids into hybrid hydrogels
Research output: Research - peer-review › Conference article – Annual report year: 2016

Electrospinning of Chitosan-Xanthan Nanofibers
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Enzymatic, urease-mediated mineralization of gellan gum hydrogel with calcium carbonate, magnesium-enriched calcium carbonate and magnesium carbonate for bone regeneration applications
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Hybrid electrospun chitosan-phospholipids nanofibers for transdermal drug delivery
Research output: Research - peer-review › Journal article – Annual report year: 2016

Optical sensors from electrohydrodynamic jetted polymer fiber resonators
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Effects of electrospun chitosan wrapping for dry-ageing of beef, as studied by microbiological, physicochemical and low-field nuclear magnetic resonance analysis
Research output: Research - peer-review › Journal article – Annual report year: 2015

Highly functionalized nano-microstructures for Bioengineering
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Nanomechanics of electrospun phospholipid fiber
Research output: Research - peer-review › Journal article – Annual report year: 2015
Device, method and system for preparing microcapsules
Research output: Research › Patent – Annual report year: 2014

Enzyme Prodrug Therapy Engineered into Biomaterials
Research output: Research › peer-review › Journal article – Annual report year: 2014

Co-Assembled and Microfabricated Bioactive Membranes
Research output: Research › peer-review › Journal article – Annual report year: 2013

Fabrication of phospholipid-xanthan microcapsules by combining microfluidics with self-assembly
Research output: Research › peer-review › Journal article – Annual report year: 2013

Self-assembly in nature: using the principles of nature to create complex nanobiomaterials
Research output: Research › peer-review › Journal article – Annual report year: 2013

Degradation studies of hydrophilic, partially degradable and bioactive cements (HDBCs) incorporating chemically modified starch
Research output: Research › peer-review › Journal article – Annual report year: 2012

Encapsulation and Survival of a Chondrocyte Cell Line within Xanthan Gum Derivative
Research output: Research › peer-review › Journal article – Annual report year: 2012

Microfluidic Fabrication of Self-Assembled Peptide-Polysaccharide Microcapsules as 3D Environments for Cell Culture
Research output: Research › peer-review › Journal article – Annual report year: 2012

Palmitoylation of xanthan polysaccharide for self-assembly microcapsule formation and encapsulation of cells in physiological conditions
Research output: Research › peer-review › Journal article – Annual report year: 2011

Hepatic UDP-glucose $^{13}$C isotopomers from [U-$^{13}$C]glucose: A simple analysis by $^{13}$C NMR of urinary menthol glucuronide
Research output: Research › peer-review › Journal article – Annual report year: 2006

NMR Derivatives for Quantification of 2H and 13C - Enrichment of Human Glucuronide from Metabolic Tracers
Research output: Research › peer-review › Journal article – Annual report year: 2006

Projects:

PROBIO - Bioencapsulation of Bioingredients
Project: Research

Functional Biopolymer Nanostructures for Bioengineering Applications
Project: PhD

Functional Biopolymer Nanostructures for Bioengineering Applications
Project: Research

Functional Electrospun Nanostructures and Microstructures for Food and Bioengineering Applications
Project: Research
Activities:

**The electrospinning of xanthan gum: from solution to nanofiber formation**
Activity: Talks and presentations › Conference presentations

**Hybrid hydrogels by the co-assembly of chitosan with phospholipids**
Activity: Talks and presentations › Conference presentations

**Hybrid hydrogels by the co-assembly of chitosan with phospholipids**
Activity: Talks and presentations › Conference presentations

**The Fiber Society 2016**
Activity: Talks and presentations › Conference presentations

**Nanotec2016**
Activity: Talks and presentations › Conference presentations

**COST MP1206- Electrospinning of Chitosan**
Activity: Talks and presentations › Conference presentations

**International Conference of the European Chitin Society**
Activity: Attending an event › Participating in or organising a conference

**FENAMI Project Course : Advances in Bioinspired Nanomaterials and Approaches in Life Sciences**
Activity: Talks and presentations › Conference presentations