



## Junior Research Fellow at INL

# Ana Vieira

### CONTACT

ana.vieira@inl.int

Avda. Mestre José Veiga s/n, Braga,  
Portugal

### EDUCATION

#### Bachelor in Biochemistry (final grade of 15)

University of Minho  
September 2013 – July 2016

#### Master in Biophysics and Bionanosystems (final grade of 18)

University of Minho  
September 2017 – December 2018

### SKILLS

- Cell culture of mammal models
- *In vitro* cytotoxicity testing
- Cellular Uptake and tracking of nanostructures
- Nanoliposomes fabrication and characterization
- Functionalization of Nanoliposomes
- Zebrafish embryo toxicity test
- Humble experience in cryo-TEM analysis
- Fluorescence microscopy imaging

### ABOUT ME

Highly motivated to start my professional career, I like a good challenge, working hard to achieve the objectives with great ambition: is never enough. Although my academic background allows me to work in different areas, it is in the application of nanotechnology to environment and/or medicine, that I have a special interest to focus on my career.

### EDUCATION

**Bachelor in Biochemistry (final grade 15)** || University of Minho

**Master in Biophysics and Bionanosystems (final grade 18)** ||  
University of Minho

Current topics in Biophysics and Bionanosystems (**18**); Bionanosystems (**17**); Advanced Cell Analysis Techniques (**15**); Biodevices for Clinical Diagnostic (**16**); Bionanosystems with pharmaceutical and dermocosmetic applications (**19**); Applied Physics in MEMS-Based Biodispositives (**17**); Advanced Techniques in Biophysics I (**17**); Cellular biophysics (**16**); Advanced Techniques in Biophysics II (**16**); Dissertation (**19**).

### SCIENTIFIC EXPERIENCE

February 2019-present || **INL**

Junior Fellow - Multifunctional materials for removal of microorganisms from water

September 2017-December 2018 || **INL & University of Minho**

*Development of the Master Thesis: "Functionalization of nano-liposomes for delivery of marine toxins as anticancer agents"* under supervision of Dr. Marisa P. Sárria from INL and Prof. Andreia Gomes from University of Minho

January – March 2016 || **University of Minho & CeNTI**

*Development of the project: "Antioxidant activity quantification method in different materials"*, *iSci 2016 – Interface Ciência, in collaboration with CeNTI – Centre for Nanotechnology and Smart Materials.*

January – March 2016 || **University of Minho**

Bachelor Project "Ecotoxicology of COFs using zebrafish embryo toxicity (ZET) testing", supervised by Dra. Andreia Gomes (University of Minho) and Dra. Laura Salonen (INL - International Iberian Nanotechnology Laboratory)



Junior Research Fellow at INL

# Ana Vieira

## CONTACT

ana.vieira@inl.int

Avda. Mestre José Veiga s/n, Braga,  
Portugal

## EDUCATION

### Bachelor in Biochemistry (final grade of 15)

University of Minho  
September 2013 – July 2016

### Master in Biophysics and Bionanosystems (final grade of 18)

University of Minho  
September 2017 – December 2018

## SKILLS

- Cell culture of mammal models
- *In vitro* cytotoxicity testing
- Cellular Uptake and tracking of nanostructures
- Nanoliposomes fabrication and characterization
- Functionalization of Nanoliposomes
- Zebrafish embryo toxicity test
- Humble experience in cryo-TEM analysis
- Fluorescence microscopy imaging

## POSTER COMMUNICATIONS

**Ana Vieira\***, Ivo Lopes, Andreia Gomes, Begoña Espiña, Marisa P. Sárria. "Yessotoxin-loaded liposomes as microalgae-derived nanovehicles targeting cancer" at MISSION 10.000, 1st NANOGATEWAY International Scientific Conference 2018. Braga, Portugal.

**A. Vieira\***, I. Lopes, A.C. Gomes, B. Espiña, M.P. Sárria, 2018. C-X-C motif chemokine receptor as key target of pH-sensitive lipid-based nanoagents for effective delivery of marine floras derived venoms to cancer therapy at III Symposium of the PhD Programme on Molecular and Environmental Biology (PDBMA) of University of Minho. Braga, Portugal

Marisa P. Sárria, Ivone Pinheiro, Ana Castanheiro, L. Rodriguez-Lorenzo, Ana Castanheira, **Ana Vieira**, José Carlos Martins, Alexandre Campos, Begoña Espiña\*, 2018. NANODesk - Advanced web based tools to promote the application of nanotechnology and safe use of nanomaterials in the plastic industry at 1st-Annual-SYMPOSIUM-2018. Braga, Portugal.

M.P. Sárria \*, C. Cunha, A. Vilas-Boas, I. Pinheiro, **A. Vieira**, L. Rodriguez-Lorenzo, A. Gomes, B. Espiña\*, 2018. *In vivo* toxicity profiling of carbon and clay based nanomaterials using the zebrafish embryotoxicity assay at 6th International Conference on Health and Safety Issues Related to Nanomaterials for a Socially Responsible Approach (NANOSAFE). Grenoble, France.

\* Participant communication

## PROFESSIONAL EXPERIENCE

July – September 2016 || **INL**  
Organization of the 15th International Conference "Nanoprint and Nanoimprint Technology", that took place at INL – International Iberian Nanotechnology Laboratory

July – september 2015 || **INL**  
LIMS platform data operator at INL – International Iberian Nanotechnology Laboratory



Junior Research Fellow at INL

# Ana Vieira

## CONTACT

ana.vieira@inl.int

Avda. Mestre José Veiga s/n, Braga,  
Portugal

## EDUCATION

### Bachelor in Biochemistry (final grade of 15)

*University of Minho*  
September 2013 – July 2016

### Master in Biophysics and Bionanosystems (final grade of 18)

*University of Minho*  
September 2017 – December 2018

## SKILLS

- Cell culture of mammal models
- *In vitro* cytotoxicity testing
- Cellular Uptake and tracking of nanostructures
- Nanoliposomes fabrication and characterization
- Functionalization of Nanoliposomes
- Zebrafish embryo toxicity test
- Humble experience in cryo-TEM analysis
- Fluorescence microscopy imaging

## SCIENTIFIC EVENTS

March 2016 - april 2017 || University of Minho

Member of the organizing committee for the 10th National Encounter of Biochemistry students (X ENEBIOQ)

April 2016 || University of Minho

Participation in the seminar “VII Jornadas de Bioquímica – Ciência para a vida”

March 2016 || University of Coimbra

Participation in the “9th National Encounter of Biochemistry students”

February 2016 || NEBQUM, University of Minho

Participation in the workshop “Scientific Writing Techniques”

April 2015 || University of Minho

Participation in the seminar “VI Jornadas de Bioquímica – Aventuras do conhecimento”

April 2014 || University of Minho

Participation in the seminar “V Jornadas de Bioquímica – Ciência dentro de portas”

April 2014 || University of Porto

Participation in the project “The mathematics at the Battle of Trafalgar”, Summer School of Mathematics (EVMAT 2011)