

# Curriculum Vitae

## Personal information

Name: Natalia  
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## Education

- Superior Technician of Pathological Anatomy and Cytology. IES Antonio Machado, Alcalá de Henares 2014-2016
- Upper level access test (baccalaureate level) 2014
- ESO, College MALVAR (Arganda Del Rey, Madrid), diploma of achievement 2011 of the Community of Madrid

## Work experience

- **Lab technician at the Molecular Mechanics of the Cardiovascular System**  
Since February 2017. Jorge Alegre-Cebollada (Group Leader)
- **Technical Practices of Pathological Anatomy and Cytology**  
January - June 2016  
**Stress kinases in Diabetes, Cancer and Cardiovascular Disease**  
CNIC (Spanish national center for cardiovascular research), Madrid Spain.  
Supervised by Dr. Guadalupe Sabio Buzo.  
Laboratory Research Lines:  
**Study of the role of MAPK proteins (p38MAPK) and proteins associated with metabolism, pathologies and development of cardiovascular diseases, obesity and cancer.**
- Teacher of support classes in Academia SANVEL (Campo Real, Madrid), March- May 2015.

## Techniques

**Study of the role of MAPK proteins (p38MAPK) and proteins associated with metabolism, pathologies and development of cardiovascular diseases, obesity and cancer. (Lab Dra. Guadalupe Sabio CNIC)**

- Necropsies of mouse, collection and sampling (paraffin, OCT and blood)
- GTT and ITT (test to measure blood glucose levels of mice)
- Cell cultures (preparation and maintenance of established lines).
- Primary cultures (Adipocytes, hepatocytes).
- Preparation of plasmids (maxiprep and miniprep)
- DNA and RNA quantification. Nanodrops
- Genotyping of lines. PCR
- Analysis on agarose gels, Bio Rad Quantity One- 4.6.9
- Lentivirus production for cell infection and injection in mice.
- Extraction and purification of RNA and DNA. (Tissues, mammalian cells and prokaryotes)
- Tissue lysate
- Bradford (protein immunoprecipitation)
- Western blot (stripping membranes)
- Histology:
  - Fixing and carving of tissue.
  - Histological stains for both paraffin and OCT samples (hematoxylin and eosin, oil red, PAP, tricromic of masson, immunohistochemistry with mouse and rabbit antibodies).

- Processing of histological samples.
- Inclusion of blocks (paraffin station).
- Histological section Microtome and Cryostat (OCT).
- Electronic microscope with Leica LAS core V4.3.
- Taking photos and reading histological samples.
- Organization management and management of colonies, orders and storage of the laboratory.
- Preparation of solutions for the laboratory (buffers).
- Participation in different experiments with the handling of the following processes:
  - Analysis of the cell cycle in hepatocytes (unit of celomics) flow chart
  - Hepatectomies in mouse
  - Liver perfusion

**During my training I studied the following modules: Cytology and fluid secretion and FNA (Fine Needle Aspiration Puncture) with more than 440 hours of reading and pre-diagnosis of the following sample types:**

- Gynecological cytology of the female genital tract (endocervical, exocervical and cervix).
- Respiratory cytology including bronchial aspirates
- Urinary tract cytology
- Cytology of pleural, pericardial, peritoneal and joint effusions
- Cytology of peritoneal lavage.
- Cytology of cerebrospinal fluid.
- Gastrointestinal cytology and Histology
- Breast cytology and Histology
- Liver cytology and Histology

**Languages:**

Native Spanish

English: intermediate level written and spoken

**References:**

<p><b>Graduate technician, Luis Leiva Vega, Stress kinases in Diabetes, Cancer and Cardiovascular Disease. CNIC, Madrid Spain</b></p>	<p><b>Contact:</b> <a href="mailto:luisguillermofrancisco.leiva@cnic.es">luisguillermofrancisco.leiva@cnic.es</a> CNIC Ext 2306</p>
<p><b>Graduate technician, Alfonso Mora Corral Stress Kinases in Diabetes, Cancer and Cardiovascular Disease. CNIC, Madrid Spain.</b></p>	<p><b>Contact:</b> <a href="mailto:alfonso.mora@cnic.es">alfonso.mora@cnic.es</a> CNIC Ext 2306</p>
<p><b>Professor of the Cytology and Discharge of Liquids module, Pilar Sanchez IES Antonio Machado, Alcalá de Henares, Spain</b></p>	<p><b>Contact:</b> <a href="mailto:psrpetunia6@gmail.com">psrpetunia6@gmail.com</a></p>

**Another data**

Advanced Knowledge and management of the following programs: Wiris, PhotoShop and web design at intermediate-advanced user level.

Microsoft Office (Word, Acces, Excel, PowerPoint)

Driving license B

Responsible person with capacity for teamwork. I have a great initiative to work and learn.