





C V n CURRÍCULUM VÍTAE NORMALIZADO



Alba Manga Robles

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Alba Manga Robles

Surname(s): Manga Robles

Name: Alba

ORCID: **0000-0002-4262-7093**

Gender: Female

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Personal web page: https://www.researchgate.net/profile/Alba-Manga-Robles

Current professional situation

Employing entity: University of León Type of entity: University

Department: Faculty of Biological and Environmental Sciences, Plant Physiology Area

Professional category: PhD student

Start date: 2020

Type of contract: Grant-assisted student (pre or Dedication regime: Full time

post-doctoral, others)

Previous positions and activities

Employing entity	Professional category	Start date
University of León	Laboratory technician	2018

Employing entity: University of León Type of entity: University

Professional category: Laboratory technician

Start-End date: 2018 - 2020





Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 University degree: Higher degree

Name of qualification: Master's Degree in Teacher Training in Compulsory Secondary Education,

Professional Training and Language Teaching **Degree awarding entity:** University of La Rioja

Date of qualification: 2022

2 University degree: Higher degree

Name of qualification: Master's Degree in Research in Fundamental Biology and Biomedicine

Degree awarding entity: University of León

Date of qualification: 2019

3 University degree: Middle degree

Name of qualification: Degree in Biology Degree awarding entity: University of León

Date of qualification: 2017

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

1 Training title: Varioskan Lux Smart Orientation
Awarding entity: Thermo Fisher Scientific

End date: 2021 Duration in hours: 6 hours

2 Training title: Agroecology and Food Sovereignty: Resilient Approaches to the Future

Awarding entity: UNED Tudela

End date: 2020 Duration in hours: 5 hours

3 Training title: Fundamentals of social entrepreneurship

Awarding entity: FUNDACION GENERAL DE LA UNIVERSIDAD DE LEON Y DE LA EMPRESA

End date: 2020 Duration in hours: 2 hours

4 Training title: Tools for the financing of research and research results

Awarding entity: FUNDACION GENERAL DE LA UNIVERSIDAD DE LEON Y DE LA EMPRESA

End date: 2020 Duration in hours: 3 hours

5 Training title: English Certificate B2 TOEIC 4 Skills

Awarding entity: TOEIC







Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

1 Title of course/seminar: Use of the signature holder

Organising entity: University of León

Duration in hours: 2 hours **Start-End date:** 2021 - 2021

2 Title of course/seminar: Digital tools for content curation

Organising entity: University of León

Duration in hours: 2 hours **Start-End date:** 2020 - 2020

3 Title of course/seminar: Strategies to increase the visibility and impact of scientific output

Organising entity: University of León

Duration in hours: 4 hours **Start-End date:** 2020 - 2020

4 Title of course/seminar: Training programme for PhD students

Organising entity: University of León

Duration in hours: 2 hours **Start-End date:** 2020 - 2020

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	B2	B2	B2	B2
Spanish	C2	C2	C2		C2

End date: 2022

Teaching experience

General teaching experience

1 Type of teaching: Official teaching
Name of the course: Biology I
University degree: Degree in Biology

Start date: 2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 36

Entity: University of León Type of entity: University

2 Type of teaching: Official teaching Name of the course: Biology I

University degree: Degree in Biology

Start date: 2020 End date: 2021







Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 18
Entity: University of León
Type of entity: University

3 Type of teaching: Official teaching Name of the course: Biology I

University degree: Degree in Biology

Start date: 2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 42

Entity: University of León Type of entity: University

Experience supervising doctoral thesis and/or final year projects

1 Project title: Evaluation of the effects of salt stress on different parameters in maize plants (Zea mays L.)

End date: 2021

Entity: University of León Student: Álex Sastre Tadeo Date of reading: 2021

2 Project title: Effect of Fusarium Verticillioides infection on the cell wall of Zea mays L.

Entity: University of León

Student: María González Blanco

Date of reading: 2020

Other activities/achievements not included above

1 Description of the activity: Workshop "Fascinating experiments with plants" in Expociencia Unileon 2020

Organising entity: University of León

End date: 2020

2 Description of the activity: Workshop "Plant Physiology" in International Day of woman and girls in science

Organising entity: University of León

End date: 2020

3 Description of the activity: Workshop "Women in science" in International Day of woman and girls in science

Organising entity: University of León

End date: 2020

4 Description of the activity: Workshop "A tree with a bright color" in Expociencia 2018 #ConoceUnileon

Organising entity: University of León

End date: 2018







Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

Name of the project: Development of new tools biotechnological tools in maize: identification of genes for acyltransferases

Entity where project took place: University of León

Name principal investigator (PI, Co-PI....): Antonio Esteban Encina García

Funding entity or bodies:

Junta de Castilla y León **Type of entity:** Public

Start-End date: 10/07/2019 - 30/09/2021

2 Name of the project: Analysis of the polysaccharide component of the lignocellulosic material

Entity where project took place: University of León

Name principal investigator (PI, Co-PI....): Antonio Esteban Encina García

Funding entity or bodies:

Alcaliber Investigación, Desarrollo e Innovación, S. L.

Start-End date: 15/12/2020 - 14/01/2021

3 Name of the project: Expociencia Unileon 2020

Entity where project took place: University of León

Name principal investigator (PI, Co-PI....): María Covadonga Palencia Coto

Funding entity or bodies:

Fundación Española para la Ciencia y la Tecnología Type of entity: Public

Start-End date: 01/04/2019 - 30/06/2020

4 Name of the project: Expociencia 2018 #ConoceUnileon (FCT- 17-11931)

Entity where project took place: University of León

Name principal investigator (PI, Co-PI....): María Covadonga Palencia Coto

Funding entity or bodies:

Fundación Española para la Ciencia y la Tecnología Type of entity: Public

Start-End date: 01/01/2018 - 31/03/2019







Results

Industrial and intellectual property

Title registered industrial property: Technical and commercial development of a "Culture chamber for the study of plant-microorganism interactions through volatiles organic compounds"

Inventors/authors/obtainers: Samuel Álvarez García; Sara Mayo Prieto; Pedro Antonio Casquero Luelmo; Santiago Gutiérrez Martin; Guzmán Carro Huerga; Álvaro Rodríguez González; Alejandra Juana Porteous Álvarez; Sara del Ser Herrero; Antonio Encina García; Hugo Mélida Martínez; Alba Manga Robles

Entity holder of rights: University of León

Date of register: 2021

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Samuel Álvarez-García; Alba Manga-Robles; Antonio Encina; Santiago Gutiérrez; Pedro Casquero. Novel culture chamber to evaluate in vitro plant-microbe volatile interactions: Effects of Trichoderma harzianum volatiles on wheat plantlets. Plant Science. 320, El Sevier, 2022.

DOI: 10.1016/j.plantsci.2022.111286 **Type of production:** Scientific paper

Alba Manga-Robles; Rogelio Santiago; Rosa A. Malvar; Víctor Moreno-González; Silvia Fornalé; Ignacio López; María Luz Centeno; José L. Acebes; Jesús Miguel Álvarez; David Caparros-Ruiz; Antonio Encina; Penélope García-Angulo. Elucidating compositional factors of maize cell walls contributing to stalk strength and lodging

resistance. Plant Science. 307, El Sevier, 2021. **DOI:** https://doi.org/10.1016/j.plantsci.2021.110882

Type of production: Scientific paper

Impact source: JCR2020

Impact index in year of publication: 4.729

Position of publication: 43

Format: Scientific and technical document or report

Category: Plant Sciences

Journal in the top 25%: Yes

No. of journals in the cat.: 251

Format: Journal

Carlos Frey; Alba Manga-Robles; José L. Acebes; Antonio Encina. The graft framework: Quantitative changes in cell wall matrix polysaccharides throughout the tomato graft union formation. Carbohydrate Polymers. 276, El Sevier, 2021.

DOI: https://doi.org/10.1016/j.carbpol.2021.118781

Type of production: Scientific paper

Impact source: JCR2020

Impact index in year of publication: 9.381

Position of publication: 3

Format: Scientific and technical document or report

Category: Organic Chemistry Journal in the top 25%: Yes No. of journals in the cat.: 57







4 Alba Manga Robles; Antonio Encina García. Photosynthesis in action. Fascinating Experiments with Plants. 2021. ISBN 978-84-18490-07-1

Type of production: Book chapter Format: Book

Works submitted to national or international conferences

1 Title of the work: Changes in cell wall phenolics and BAHD gene expression throughout early maize

development

Name of the conference: XXIV Reunión de la Sociedad Española de Biología de Plantas

City of event: Online, Date of event: 2021

Organising entity: University of Vigo

Alba Manga-Robles; Alfonso G de la Rubia; Penélope García-Angulo; José L Acebes; María Luz Centeno;

Antonio Encina.

Title of the work: Deepening into maize cell wall composition upon Fusarium verticillioides infection: a tool for breeding programs

Name of the conference: XIII Genetics and Biotechnology Conference

City of event: Universidade de Trás-os-Montes e Alto Douro (Portugal) and University of León (Spain),

Date of event: 2021

Alba Manga-Robles; María González-Blanco; Antonio Encina; Penélope García-Angulo; María Luz

Centeno.

3 Title of the work: Effects of jasmonic acid on maize cultured cells: an insight into cell wall modifications

Name of the conference: XXIV Reunión de la Sociedad Española de Biología de Plantas

City of event: Online, Date of event: 2021

Organising entity: University of Vigo

Pablo Fernández-Carbajo; Alba Manga-Robles; María Luz Centeno; Antonio Encina.

4 Title of the work: Homemade experiments in pandemic times: a resource to support self-directed learning

in plant physiology

Name of the conference: XXIV Reunión de la Sociedad Española de Biología de Plantas

City of event: Online, Date of event: 2021

Organising entity: University of Vigo

José L Acebes; Alba Manga-Robles; Carlos Frey; Alfonso G de la Rubia; Laura Pascual; Hugo Mélida.

5 Title of the work: Making short videos by students to learn plant physiology

Name of the conference: XXIV Reunión de la Sociedad Española de Biología de Plantas

City of event: Online, Date of event: 2021

Organising entity: University of Vigo

Romina Martínez-Rubio; María Luz Centeno; Alfonso G de la Rubia; Alba Manga-Robles; Carlos Frey;

Antonio Encina; Ángel Pérez-Pueyo; Penélope García-Angulo.

6 Title of the work: Teaching from a fascination for plants: some experiences of the innovative educational

group "Savia Sabia"

Name of the conference: XXIV Reunión de la Sociedad Española de Biología de Plantas

City of event: Online, Date of event: 2021







Organising entity: University of Vigo

María Luz Centeno; Antonio Encina; Penélope García-Angulo; Hugo Mélida; Alfonso G de la Rubia; Alba

Manga-Robles; Carlos Frey; Laura Pascual; José L Acebes.

7 Title of the work: Time course of cell walls changes along tomato graft healing

Name of the conference: PhD Meeting in Plant Science

City of event: Online, Date of event: 2021

Organising entity: University of Vigo

Carlos Frey; Alba Manga-Robles; Antonio Encina; José L Acebes.

8 Title of the work: Deepening into cell wall as a renewable resource related to stalk strength

Name of the conference: XV Cell Wall Meeting City of event: Cambridge, United Kingdom

Date of event: 2019

Alba Manga-Robles; Silvia Fornalé; David Caparrós; Ignacio López; Rogelio Santiago; Rosa Ana Malvar;

José L. Acebes; Jesús Miguel Álvarez; Antonio Encina; Penélope García-Angulo.

9 Title of the work: Renewable resource related to maize stalk strength: the cell wall as a biotecnological

target

Name of the conference: XI Genetics and Biotechnology Conference

City of event: Universidade de Trás-os-Montes e Alto Douro (Portugal) and University of León (Spain),

Spain

Date of event: 2019

Alba Manga-Robles; Silvia Fornalé; David Caparrós; Joan Rigau; José L. Acebes; Jesús Miguel Álvarez;

Antonio Encina; Penélope García-Angulo.

Other achievements

Stays in public or private R&D centres

1 Entity: Misión Biológica de Galicia-CSIC

City of entity: Pontevedra, Spain Start-End date: 2022 - 2022

Goals of the stay: Doctorate

2 Entity: Centre for Research in Agricultural Genomic (CRAG) CSIC-IRTA-UAB-UB at Autonomous University

Duration: 3 months

of Barcelona

City of entity: Barcelona, Spain

Start-End date: 2019 - 2019 Duration: 15 days

Goals of the stay: Laboratory technician

3 Entity: University of Limerick City of entity: Limerick, Ireland

Start-End date: 2018 - 2018 Duration: 3 months

Goals of the stay: Internship

4 Entity: Celignis Analytical

City of entity: Limerick, Ireland

Start-End date: 2017 - 2018 Duration: 4 months







Goals of the stay: Internship

5 Entity: University of León Type of entity: University

Faculty, institute or centre: Plant Physiology Area

City of entity: León, Spain Start-End date: 2017 - 2017 Goals of the stay: Internship

Duration: 3 months

6 Entity: University of León Type of entity: University

Faculty, institute or centre: Plant Physiology Area

City of entity: León, Spain Start-End date: 2016 - 2016 Goals of the stay: Internship

Duration: 3 months

Obtained grants and scholarships

1 Name of the grant: Mobility scholarship for researchers at the University of León

Aims: Congress attendance. XV Cell Wall Meeting

Awarding entity: University of León

End date: 2019

Entity where activity was carried out: University of Cambridge (United Kingdom)

2 Name of the grant: International Scholarship ERASMUS INTERNSHIP

Awarding entity: University of León

End date: 2018

Entity where activity was carried out: Celignis Analytical (Limerick, Ireland)

3 Name of the grant: International Scholarship ERASMUS INTERNSHIP

Awarding entity: University of León

End date: 2018

Entity where activity was carried out: University of Limerick (Ireland)

4 Name of the grant: International Scholarship ERASMUS STUDY

Awarding entity: University of León

Duration: 6 months **End date:** 2017

Entity where activity was carried out: University of Siena (Italy)

Scientific societies and professional associations

1 Name of the society: Physiology and Biotechnology of Plants

Affiliation entity: University of León **City affiliation entity:** León, Spain

2 Name of the society: Savia Sabia Teaching Innovation Group

Affiliation entity: University of León City affiliation entity: León, Spain







Prizes, mentions and distinctions

1 Description: First prize in the "In search of the true spirit of the University of León" contest

Awarding entity: Universidad de León

Conferral date: 2022

2 Description: Honorable mention for the poster entitled "Deepening into maize cell wall composition upon

Fusarium verticillioides infection: a tool for breeding programs" **Awarding entity:** XIII Genetics and Biotechnology Conference

Conferral date: 2021

3 Description: Honorable mention for the final project Master entitled "Resistance to lodging in maize: a

matter of cell wall?"

Awarding entity: University of León

Conferral date: 2019

4 Description: Honorable mention for the final project Degree entitled "Relationship between stalk lodging

and cell wall composition in maize (Zea mays L.)"

Awarding entity: University of León

Conferral date: 2017

Obtained accreditations/recognitions

Description: Moderator in XIII Genetics and Biotechnology Conference **Accrediting entity:** XIII Genetics and Biotechnology Conference

Date of recognition: 2021



