



Julia Weiss

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**Julia Weiss**

Surname(s): **Weiss**
Name: **Julia**
NIE:
Date of birth:
Gender: **Female**
Nationality:
Country of birth:
Aut. region/reg. of birth:
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City of birth:
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Contact city:
Land line phone:
Email: **julia.weiss@upct.es**
Mobile phone:
Personal web page: **www.upct.es/genetica**

Current professional situation

Employing entity: Universidad Politécnica de Cartagena **Type of entity:** University

Department: Departamento de Ingeniería Agronómica, Escuela Técnica Superior de Ingeniería Agronómica

Professional category: Catedrática

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 240000 - Life Science

Secondary (UNESCO code): 310000 - Agricultural Sciences

Tertiary (UNESCO code): 330000 - Technological Science.

Performed tasks: Investigación: Estudio de los programas genéticos relacionados con el reloj circadiano. Estudio de factores ambientales que controlan diferentes aspectos del desarrollo de las plantas. Aplicación de tecnologías Crisp / Cas para la edición del genoma. Gestión académica: Subdirectora de Relaciones Internacionales de la Escuela Técnica Superior de Ingeniería Agronómica

Identify key words: Natural sciences and health sciences



Education

University education

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

University degree: Higher degree

Name of qualification: Ingeniero Agrónomo

Degree awarding entity: Friedrich-Wilhelms
Universität Bonn

Type of entity: University

Date of qualification: 15/04/1990

Doctorates

Degree awarding entity: Universidad Ben Gurion del Negev, Israel

Date of degree: 29/11/1995

Language skills

Language	Listening skills	Reading skills	oken interaction	Speaking skills	Writing skills
English	C1	C1	C1	C1	C1
German	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Name of the course:** Genómica

University degree: Grado en Ingeniería de la Hortofruticultura y Jardinería

Start date: 15/02/2014 **End date:** 30/09/2014

Entity: Universidad Politécnica de Cartagena **Type of entity:** University
- 2 Name of the course:** Genética

University degree: Grado en Ingeniería de la Hortofruticultura y Jardinería

Start date: 15/09/2013 **End date:** 30/09/2014

Entity: Universidad Politécnica de Cartagena **Type of entity:** University
- 3 Name of the course:** Genética

University degree: Curso de Adaptación al grado en Ingeniería Agronómica

Start date: 15/09/2011 **End date:** 30/09/2014

Entity: Universidad Politécnica de Cartagena **Type of entity:** University



- 4** **Name of the course:** Genómica
University degree: Libre Configuración
Start date: 15/09/2006
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2012
Type of entity: University
- 5** **Name of the course:** Biología Molecular Aplicada
University degree: Ingeniero Agrónomo
Start date: 15/02/2000
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2012
Type of entity: University
- 6** **Name of the course:** Técnicas de Biología Celular y Molecular
University degree: Doctorado
Start date: 15/02/2005
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2007
Type of entity: University
- 7** **Name of the course:** Ingeniería Genética Vegetal
University degree: Ingeniero Agrónomo
Start date: 15/02/2000
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2007
Type of entity: University
- 8** **Name of the course:** Tecnología de Marcadores Moleculares
University degree: Doctorado
Start date: 15/02/2001
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2004
Type of entity: University
- 9** **Name of the course:** Genética del Desarrollo
University degree: Doctorado
Start date: 15/02/2000
Entity: Universidad Politécnica de Cartagena
End date: 30/09/2004
Type of entity: University
- 10** **Name of the course:** Genómica
University degree: Grado en Ingeniería Agroalimentaria y Sistemas Biológicos
Start date: 15/02/2015
Entity: Universidad Politécnica de Cartagena
Type of entity: University
- 11** **Name of the course:** Genética
University degree: Grado en Ingeniería Agroalimentaria y sSistemas Biológicos
Start date: 15/09/2014
Entity: Universidad Politécnica de Cartagena
Type of entity: University
- 12** **Name of the course:** Investigación en Biotecnología Vegetal y Alimentaria
University degree: Master en Técnicas Avanzadas en Investigación y Desarrollo Agrario y Alimentario
Start date: 05/10/2013
Entity: Universidad Politécnica de Cartagena
Type of entity: University
- 13** **Name of the course:** Técnicas de Biología Celular y Molecular
University degree: Máster en Técnicas Avanzadas en Investigación y Desarrollo Agrario Y Alimentario
Start date: 06/10/2007
Entity: Universidad Politécnica de Cartagena
Type of entity: University



- 14 Name of the course:** Herramientas de Genómica en Investigación
University degree: Máster en Técnicas Avanzadas en Investigación y Desarrollo Agrario Y Alimentario
Start date: 05/10/2007
Entity: Universidad Politécnica de Cartagena **Type of entity:** University

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Evaluación del uso de diferentes tejidos y medios de cultivo in vitro para la transformación de *Petunia hybrida* con una construcción Crispr/Cas9.
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: JUAN TOMÁS CORREAS MULA MULA
Date of reading: 24/11/2023
- 2 Project title:** Análisis de *Opuntia ficus-indica* como cultivo para biorrefinería
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Alberto José Ojados Artés
Date of reading: 28/07/2023
- 3 Project title:** Optimización de protocolos de transformación vegetal en plantas modelo para la aplicación de la tecnología Crispr/Cas Autora
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Candela Fernández Donas
Obtained qualification: 9,2
Date of reading: 28/05/2022
- 4 Project title:** Comparative genetic analysis of GIGANTEA, a gene involved in the control of circadian rhythm in Solanaceae.
Type of project: Doctoral thesis
Co-director of thesis: Marcos Egea Gutiérrez-Cortines
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Claudio Brándoli
Obtained qualification: 10
Date of reading: 23/09/2020
European doctorate: Yes
Quality recognition: Yes
- 5 Project title:** Study of the scent profile and scent regulation from *Antirrhinum majus*
Type of project: Tesis fin de grado
Co-director of thesis: Lore Castelein
Entity: UCLL Leuven Limburg, Bélgica **Type of entity:** University
Student: Line Coenegrachts
Date of reading: 26/06/2020
- 6 Project title:** Analysis of the circadian clock and its role in scent emission in *Antirrhinum majus* and *Petunia hybrida*
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Marta Isabel Terry López
Obtained qualification: 10



Date of reading: 08/06/2020

Quality recognition: Yes

- 7** **Project title:** Genetic structure of scent profiles in *Antirrhinum*. Implications for the evolution and interactions with pests and pollinators
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Victoria Ruiz Hernández
Obtained qualification: 10
Date of reading: 11/10/2018
European doctorate: Yes
Quality recognition: Yes
- 8** **Project title:** Ascertaining of the PCR conditions and diel expression profile of drought related genes using genomic DNA and cDNA from cowpea (*Vigna unguiculata* L. Walp.) leaves
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Murat Atun
Date of reading: 18/07/2018
- 9** **Project title:** Genotyping, phenotyping and transcriptomic analysis of accessions of *Vicia faba*, *Pisum sativum* and *Vigna unguiculata*
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Marina Marta Martos Fuentes
Date of reading: 23/10/2017
European doctorate: No
Quality recognition: Yes
- 10** **Project title:** Expresión de genes del ritmo circadiano en caupí (*Vigna unguiculata*)
Type of project: Tesis fin de grado
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Javier García Sánchez
Date of reading: 10/10/2017
- 11** **Project title:** Relative expression rates of mirnas in petals of *petunia hybrida* during the day/night through next-generation sequencing
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Onurçan Özbollat
Obtained qualification: 9,5
Date of reading: 26/09/2017
- 12** **Project title:** Determinación de alelos hipomórficos de ocimeno sintasa en *Antirrhinum majus*
Type of project: Tesis fin de máster:
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Carmen López Guerrero
Obtained qualification: 9,5
Date of reading: 20/09/2017



- 13** **Project title:** Role of plastid markers in environmental studies on the example of the endangered species *Cistus heterophyllus*
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Marta Pawluczyk
Date of reading: 05/05/2017
Quality recognition: Yes
- 14** **Project title:** "ZEITLUPE (ZTL)", involucrado en el control del ritmo circadiano, sobre el desarrollo en *Petunia hybrida*.
Type of project: Tesis fin de grado
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Miguel Ángel Casanova de la Rosa
Date of reading: 2016
- 15** **Project title:** Desarrollo de herramientas de genética inversa para mejora de ornamentales
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Manchado Rojo
Obtained qualification: 10
Date of reading: 18/12/2015
Quality recognition: Yes
- 16** **Project title:** Development of a high-throughput PCR & sequencing approach for SNP identification in
Type of project: Tesis fin de máster:
Entity: University of Hasselt, Belgium **Type of entity:** University
Student: Ine Maes
Date of reading: 18/06/2015
- 17** **Project title:** Application of an Ion-Torrent sequencing approach for genotyping Leguminosae species
Type of project: Tesis fin de máster
Entity: University of Hasselt, Bélgica **Type of entity:** University
Student: Joke Appentals
Date of reading: 18/06/2015
- 18** **Project title:** Análisis fenotípico de una población segregante de líneas de silenciamiento génico del gen LHY en *Antirrhinum majus*
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Jaime Molina Ballesteros
Date of reading: 30/09/2014
- 19** **Project title:** Desarrollo de líneas transgénicas de *A.majus* silenciadas en el gen AmlHY por técnicas de RNAi
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Isabel Lucía Adiego Fernández
Date of reading: 22/09/2014
- 20** **Project title:** Confirmación de NANA como un mutante de *Antirrhinum majus* afectado en el reloj circadiano
Type of project: Tesis fin de carrera (Ing. Agron.)
Entity: Universidad Politécnica de Cartagena **Type of entity:** University



Student: Pablo Galindo Galindo

Date of reading: 10/10/2013

- 21** **Project title:** Análisis genético de la emisión de volátiles en una población de *A.majus* x *A.linkianum*
Type of project: Tesis fin de máster
Co-director of thesis: Marcos Egea Gutiérrez-Cortines
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Maria Victoria Ruiz Hernández
Date of reading: 27/09/2013
- 22** **Project title:** Análisis de alelismo del locus nana de *A. majus* con los genes Early Flowering 3 y Late elongated hypocotyl
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Fabiola Ruiz Ramón
Date of reading: 13/07/2013
- 23** **Project title:** Análisis genético de la interacción entre el control del tamaño floral y la identidad de los órganos en *Petunia hybrida*.
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Izaskun Mallona González
Obtained qualification: 10
Date of reading: 24/07/2012
Quality recognition: Yes
- 24** **Project title:** Integración divergente de señales ambientales (hacinamiento y defoliación) en el meristemo apical
Type of project: Tesis fin de máster:
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Raquel Alcantud Rodríguez
Date of reading: 16/07/2012
- 25** **Project title:** Transformación Genética de *Antirrhinum majus*
Type of project: Tesis fin de máster:
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Ángeles Portero Martínez
Date of reading: 21/09/2010
- 26** **Project title:** Selección de genes de normalización para RT-PCR cuantitativa en *Petunia hybrida*
Type of project: Tesis fin de máster
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Izaskun Mallona González
Date of reading: 10/10/2008
- 27** **Project title:** Control genético del tamaño floral en *Antirrhinum*
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Luciana Delgado Benarroch
Obtained qualification: 10
Date of reading: 23/07/2008
Quality recognition: Yes



- 28** **Project title:** Genetic analysis of a giant mutant of *Antirrhinum majus*
Type of project: Tesis fin de carrera (Ing. Agron.)
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Marta Pawluczyk
Date of reading: 19/07/2007
- 29** **Project title:** Effect of cell cycle inhibitor aphidicolin and cell expansion inhibitor cytochalasin D on genes involved in the control of cell division cell expansion and organ identity
Type of project: Tesis fin de carrera (Ing. Agron.):
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Agnieszka Pietras
Date of reading: 19/07/2007
- 30** **Project title:** Mejora de la tecnología de pasteurización, almacenamiento y envasado aseptico del zumo natural de naranja
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Ros Chumillas
Obtained qualification: 10
Date of reading: 08/11/2006
Quality recognition: Yes
- 31** **Project title:** Potencial de transformación y regeneración del mutante nana y de la línea silvestre 165E de *Antirrhinum majus*
Type of project: Tesis fin de carrera (Ing. Agron.):
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: María Manchado Rojo
Date of reading: 22/09/2006
- 32** **Project title:** Efectos ambientales sobre el desarrollo vegetativo y floral de *Antirrhinum majus* L. Entidad: Universidad Politécnica de Cartagena
Type of project: Tesis fin de carrera (Ing. Agron.):
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Almudena Bayo Canha
Date of reading: 29/09/2005
- 33** **Project title:** Identificación de nana como un mutante de *Antirrhinum majus* involucrado en la respuesta a Giberelinas
Type of project: Tesis fin de carrera (Ing. Agron.)
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Ignacio García Escudero
Date of reading: 20/07/2004
- 34** **Project title:** Análisis fenotípico del mutante densiflora, un locus absolutamente necesario para el establecimiento
Type of project: Tesis fin de carrera (Ing. Agron.)
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Amalia Roca Hernández
Date of reading: 10/07/2004



35 **Project title:** Efectos de mutaciones que afectan a la síntesis de giberelinas sobre el desarrollo de Antirrhinum majus
Type of project: Tesis fin de carrera (Ing. Agron.):
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Carlos Miras Marín
Date of reading: 10/02/2004

36 **Project title:** Análisis genómico de daños por frío en tomate Microtom
Type of project: Tesis fin de carrera (Ing. agronomo):
Entity: Universidad Politécnica de Cartagena **Type of entity:** University
Student: Gabriel Garrido Aguayo
Date of reading: 10/10/2003

Student tutorials

1 **Name of the programme:** Mobility programme
Entity: Rhein_Waal University Kleve, Alemania
Frequency of the activity: 4

2 **Name of the programme:** Mobility programme
Entity: University of Thessaly, Volos, Grecia
Frequency of the activity: 4

Educational or pedagogical publications, books, articles, etc.

Julia Weiss. Teaching applied genetics and molecular biology to agriculture engineers. Application of the European Credit Transfer System, 33, pp. 59 - 66.

Name of the materials: Internacional Journal of Engineering Education

Participation in innovative teaching projects

1 **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 03/03/2023 - 03/03/2023

2 **Project title:** VIII Edición del Proyecto IDIES (I+D en Institutos de Educación Secundaria)
Type of participation: Dirección del proyecto
Time of working relationship: For a limited time
Funding entity: Fundación Seneca, Murcia
Start-End date: 01/10/2021 - 01/02/2022

3 **Project title:** VII Edición del Proyecto IDIES (I+D en Institutos de Educación Secundaria)
Type of participation: Dirección del proyecto
Time of working relationship: For a limited time
Funding entity: Fundación Seneca, Murcia
Start-End date: 09/2019 - 07/2020



- 4** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Principal investigator
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 11/12/2019 - 11/12/2019
- 5** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 11/12/2018 - 11/12/2018
- 6** **Project title:** Itinerarios Docentes Agroalimentarios para alumnos de bachillerato
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 01/03/2018 - 01/03/2018
- 7** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 04/12/2017 - 04/12/2017
- 8** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 09/01/2017 - 09/01/2017
- 9** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 07/01/2016 - 07/01/2016
- 10** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 27/01/2015 - 27/01/2015
- 11** **Project title:** Itinerarios Docentes Agroalimentarios
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 03/2014 - 03/2014
- 12** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo



Start-End date: 19/12/2013 - 19/12/2013

- 13** **Project title:** Itinerarios Docentes Agroalimentarios
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: consejería de Educación, Formación y Empleo
Start-End date: 03/2013 - 03/2013
- 14** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 09/01/2013 - 09/01/2013
- 15** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación formación y Empleo
Start-End date: 02/02/2012 - 02/02/2012
- 16** **Project title:** Ruta Biotecnología para Alumnos de 2º Curso de Bachillerato
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación, Formación y Empleo
Start-End date: 03/01/2012 - 03/01/2012
- 17** **Project title:** Itinerarios agroalimentarios de primaria
Type of participation: Team member
Time of working relationship: For a limited time
Funding entity: Consejería de Educación Formación y Empleo
Start-End date: 01/2008 - 01/2008

Other activities/achievements not included above

- 1** **Description of the activity:** Coordinador/Organizador - Blended Intensive Program - International Week "Technology Applied to Biological Systems" - Euclides network
End date: 15/03/2024
- 2** **Description of the activity:** Coordinator/Organizador Blended Intensive Program-International Week "Molecular Gene Technology" - Euclides network
Organising entity: Universidad Politécnica de Cartagena
End date: 18/03/2022
- 3** **Description of the activity:** Coordinador Erasmus
Organising entity: PAMUKKALE UNIVERSITESI, Turkía
- 4** **Description of the activity:** Coordinador Erasmus
Organising entity: POLITECHNIKA WARSZAWSKA, Polonia



- 5 Description of the activity:** Coordinador Erasmus
Organising entity: Rhein_Waal University Kleve, Alemania
- 6 Description of the activity:** Coordinador Erasmus
Organising entity: University of Applied Sciences. Merseburg, Alemania
- 7 Description of the activity:** Coordinador Erasmus
Organising entity: University of Thessaly, Volos, Grecia

Scientific and technological experience

Scientific or technological activities

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

- 1 Name of the project:** Plan complementario de agroalimentación Agroalnext - Actuación 1.3. Mejora genética
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
City of entity: Cartagena, Region of Murcia, Spain
Name principal investigator (PI, Co-PI. ...): Julia Weiss
Nº of researchers: 2
Start-End date: 01/01/2023 - 01/01/2025
- 2 Name of the project:** Proyecto MICINN PID2021-127933OB-C21 V ALIDACION DE GENES QUE COORDINAN CRECIMIENTO Y EMISION DE VOLATILES CON POTENCIAL BIOTECNOLOGICO
Entity where project took place: Universidad Politécnica de Cartagena
City of entity: Cartagena, Region of Murcia, Spain
Name principal investigator (PI, Co-PI. ...): Marcos Egea Gutiérrez-Cortines; Julia Weiss
Nº of researchers: 2
Start-End date: 01/01/2021 - 01/01/2025
- 3 Name of the project:** Análisis de genes de control del desarrollo floral y la emisión de volátiles. Desarrollo de fenotipado automático mediante visión artificial basado en máquinas de aprendizaje
Degree of contribution: Scientific coordinator
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
City of entity: Cartagena, Region of Murcia, Spain
Name principal investigator (PI, Co-PI. ...): Marcos Egea Gutiérrez_Cortines; Julia Weiss
Nº of researchers: 2
Type of participation: Principal investigator
Name of the programme: MICINN Retos Colaboración
Code according to the funding entity: BFU 2017 88300-C2-1-R
Start-End date: 01/01/2018 - 31/12/2022
Duration: 4 years

4 Name of the project: DIVERFARMING**Entity where project took place:** Universidad Politécnica de Cartagena**Type of entity:** University**Name principal investigator (PI, Co-PI. ...):** Julia Weiss; Marcos Egea Gutiérrez-Cortines; Raúl Zornoza**Nº of researchers:** 70**Funding entity or bodies:**

Comisión Europea H2020

City funding entity: MADrid, Spain**Start-End date:** 15/05/2017 - 15/05/2022**5 Name of the project:** Melomur**Entity where project took place:** Universidad Politécnica de Cartagena**Type of entity:** University**Name principal investigator (PI, Co-PI. ...):** Julia Weiss; Marcos Egea Gutiérrez-Cortines; Cesar Petry**Nº of researchers:** 12**Funding entity or bodies:**

Consejería de Desarrollo Económico, Turismo y Empleo

Type of entity: State agency**City funding entity:** Murcia, Region of Murcia, Spain**Start-End date:** 01/01/2018 - 31/12/2021**Total amount:** 745.000 €**6 Name of the project:** DISEÑO Y DESARROLLO DE UN SISTEMA AUTÓNOMO Y CONFIGURABLE EN PARÁMETROS PARA LOS DISTINTOS ESTADIOS DE CRECIMIENTO DE LAS PLANTAS, PRINCIPALMENTE DE FRESA**Geographical area:** Regional**Entity where project took place:** Universidad Politécnica de Cartagena**Type of entity:** University**Nº of researchers:** 3**Funding entity or bodies:**

Centro para el Desarrollo Tecnológico Industrial

Type of entity: Business**Start-End date:** 21/07/2017 - 21/07/2019**Duration:** 2 years**Total amount:** 42.350 €**7 Name of the project:** DETERMINACIÓN DEL CONTROL DE LA EMISIÓN DE VOLÁTILES FLORALES POR EL BUCLE NOCTURNO DEL RELOJ CIRCADIANO EN PETUNIA**Entity where project took place:** Universidad Politécnica de Cartagena**Type of entity:** University**Name principal investigator (PI, Co-PI. ...):** Julia Weiss; Marcos Egea Gutiérrez-Cortines**Nº of researchers:** 2**Funding entity or bodies:**

FUNDACION SENECA AGENCIA DE CIENCIA Y TECNOLOGIA DE LA REGION DE MURCIA

City funding entity: Murcia, Region of Murcia, Spain**Start-End date:** 01/07/2015 - 30/06/2018**8 Name of the project:** EUROLEGUME**Name principal investigator (PI, Co-PI. ...):** Julia Weiss; Marcos Egea Gutiérrez-Cortines; Raúl Zornoza; Catalina Egea Gilabert; Perla Azucena Gómez di Marco; Juan Antonio Fernández Hernández**Nº of researchers:** 50**Funding entity or bodies:**



Comisión Europea FPVII-KBBE

City funding entity: Madrid, Spain

Start-End date: 01/01/2014 - 31/12/2017

- 9 Name of the project:** Identificación de genes de interés agronómico para la mejora de flor en Petunia hybrida mediante técnicas de genética inversa

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad Politécnica de Cartagena

Type of entity: University

Name principal investigator (PI, Co-PI. ...): María Manchado Rojo; Izaskum Mallona González; Julia Weiss; Marcos Egea Gutierrez-Cortines

Nº of researchers: 4

Funding entity or bodies:

FUNDACION SENECA AGENCIA DE CIENCIA Y TECNOLOGIA DE LA REGION DE MURCIA

City funding entity: Murcia, Region of Murcia, Spain

Type of participation: Principal investigator

Name of the programme: Proyecto Seneca

Code according to the funding entity: 11895/

Start-End date: 01/01/2010 - 31/12/2014

Duration: 4 years

Total amount: 65.350 €

- 10 Name of the project:** Proyecto Vitalis. Espacio Mediterráneo de Investigación en Red en Alimentos y Salud

Entity where project took place: Universidad Politécnica de Cartagena

Type of entity: University

Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines; Francisco Artés Calero

Nº of researchers: 15

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: CEI10-2-0002

Start-End date: 01/01/2010 - 30/06/2014

Total amount: 1.500.000 €

- 11 Name of the project:** Analisis genético de rutas biológicas y señales ambientales involucradas en el control de tamaño floral y caracteres de inflorescencia

Entity where project took place: Universidad Politécnica de Cartagena

Type of entity: University

Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines

Nº of researchers: 2

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: BFU2010-15843

Start-End date: 01/01/2010 - 31/12/2013

- 12 Name of the project:** Scent in wild Anthirrinum species in relation to compatibility system and floral structure

Entity where project took place: Purdue University **Type of entity:** University

City of entity: West-Lafayette, Indiana, United States of America,

Name principal investigator (PI, Co-PI. ...): Natalia Dudareva; Julia Weiss

Nº of researchers: 2

Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA



Start-End date: 20/05/2011 - 31/08/2011

- 13 Name of the project:** Clonación posicional de un gen involucrado en la transducción de señales de giberelinas por la mejora de la planta ornamental de maceta
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 2
Type of participation: Team member
Name of the programme: BioCARM
Code according to the funding entity: 09
Start-End date: 01/01/2007 - 31/12/2009
- 14 Name of the project:** Mejora del tamaño floral en *Antirrhinum majus* por técnicas de genética inversa
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
Nº of researchers: 4
Type of participation: Team member
Name of the programme: MEC
Code according to the funding entity: AGL2007-61384
Start-End date: 01/01/2007 - 31/12/2009
Duration: 3 years
- 15 Name of the project:** Identification of genes and molecules associated to tomato fruit quality and participation in the sequency of euchromatic regions fo Chr9. A genomic approach
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 30
Funding entity or bodies: Fundación Genoma España
Type of entity: Foundation
Name of the programme: Fundación Genoma España
Code according to the funding entity: ESPSOL
Start-End date: 01/06/2005 - 31/12/2008
Duration: 3 years
- 16 Name of the project:** Aislamiento molecular de genes involucrados en el control de las proporciones florales en *Antirrhinum*
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Cartagena
Type of entity: University
Name principal investigator (PI, Co-PI. ...): MMarcos Egea x Egea Gutiérrez-Cortines
Nº of researchers: 2
Funding entity or bodies: FUNDACION SENECA AGENCIA DE CIENCIA Y TECNOLOGIA DE LA REGION DE MURCIA
Type of participation: Team member
Name of the programme: Fundación Séneca



Code according to the funding entity: 00510/PI/04

Start-End date: 01/01/2005 - 31/12/2007

Duration: 3 years

17 Name of the project: Análisis genético y molecular del tamaño floral en *Antirrhinum majus*

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad
Politécnica de Cartagena

Type of entity: University

Name principal investigator (PI, Co-PI. ...): Marcos Egea Gutiérrez-Cortines

Nº of researchers: 2

Funding entity or bodies:

FUNDACION SENECA AGENCIA DE CIENCIA Y TECNOLOGIA DE LA REGION DE MURCIA

Type of participation: Team member

Name of the programme: Fundación Séneca

Code according to the funding entity: PI-20/00701/FS/01

Start-End date: 01/01/2002 - 31/12/2004

Duration: 3 years

18 Name of the project: Identificación de genes y enzimas activadas y reprimidas durante la producción de daños por frío en frutos de tomate *Micro-tom*. Investigador

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad
Politécnica de Cartagena

Type of entity: University

Name principal investigator (PI, Co-PI. ...): Marcos Egea Gutiérrez-Cortines

Nº of researchers: 7

Funding entity or bodies:

CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA

Type of entity: Associations and Groups

Ministerio de Ciencia y Tecnología

Type of participation: Team member

Name of the programme: MCYT

Code according to the funding entity: BIO2001-1620

Start-End date: 01/01/2002 - 01/01/2004

Duration: 3 years

Total amount: 96.000 €

19 Name of the project: Clonación posicional del gen R1 de resistencia contra *Phytophthora infestans* en patata

Type of project: Research and development,
including transfer

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Max-Planck Institute

City of entity: Cologne, Köln, Germany

Name principal investigator (PI, Co-PI. ...): Julia Weiss

Nº of researchers: 1

Funding entity or bodies:

Deutsche Forschungsgemeinschaft DFG

Type of entity: Public Research Body

Type of participation: Principal investigator

Start-End date: 01/01/1999 - 31/12/1999

Duration: 1 year

- 20** **Name of the project:** Ayuda a organización de congresos. Xth World Petunia Days
Entity where project took place: Universidad Politécnica de Cartagena **Type of entity:** University
Name principal investigator (PI, Co-PI. ...): María x María Manchado x María Manchado Rojo; Izaskun Mallona x Mallona González; Luciana Delgado x Delgado Benarroch; Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 5
Funding entity or bodies: FUNDACION SENECA AGENCIA DE CIENCIA Y TECNOLOGIA DE LA REGION DE MURCIA
Start date: 01/01/2009
- 21** **Name of the project:** CONTROL GENETICO Y FISIOLÓGICO SOBRE EL DESARROLLO DEL PETALO Y LA SINTESIS DE VOLATILES FLORALES
Entity where project took place: Universidad Politécnica de Cartagena **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 2
Funding entity or bodies: Ministerio de Ciencia e Innovación BFU2013-45148-R

R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** CANNABI+ Optención de nuevas variedades de cannabis con altos contenidos de cannabinoides
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 2
Funding entity or bodies: Linneo Health S.L. **Type of entity:** Business
Start date: 02/07/2021 **Duration:** 9 months
Total amount: 67.768,8 €
- 2** **Name of the project:** DISEÑO Y DESARROLLO DE UN SISTEMA AUTÓNOMO Y CONFIGURABLE EN PARÁMETROS PARA LOS DISTINTOS ESTADIOS DE CRECIMIENTO DE LAS PLANTAS, PRINCIPALMENTE DE FRESA
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI. ...): Pedro Javier Navarro Lorente; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 3
Funding entity or bodies: Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business
Start date: 21/07/2017 **Duration:** 2 years
Total amount: 42.350 €
- 3** **Name of the project:** Análisis previo de higo chumbo (Opuntia ficus-indica) como posible planta de uso industrial para biofactoría
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI. ...): Julia Weiss; Marcos Egea Gutiérrez-Cortines
Nº of researchers: 2

**Funding entity or bodies:**

BIONET Ingeniería

Type of entity: Business**Start date:** 20/11/2013**4 Name of the project:** Análisis de volátiles en variedades de narciso**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI. ...):** Julia Weiss; Marcos Egea Gutiérrez-Cortines**Nº of researchers:** 2**Funding entity or bodies:**

Sociedad Cooperativa Las Cabezuelas

Type of entity: Business**Start date:** 01/01/2013**Results****Industrial and intellectual property****Title registered industrial property:** Genomic sequence of the R1 gene from potato as a resistance against**Inventors/authors/obtainers:** Christiane Gebhardt; Francesco Salamini; Agim Ballvora; Julia Weiss; Maria Ercolano**Entity holder of rights:** Max-Planck Gesellschaft Autorizado Garching Innovation**Nº of application:** EP/31.08.01/EPA 01120670**Country of inscription:** Germany**Date of register:** 2002**Scientific and technological activities****Scientific production****H index:** 24**Date of application:** 18/03/2024**Fuente de Índice H:** GOOGLE SCHOLAR**Publications, scientific and technical documents**

- 1 Raquel Alcantud; Julia Weiss; Marta I. Terry; Nuria Bernabé; Fuensanta Verdú-Navarro; Jesualdo Tomás Fernández-Breis; Marcos Egea-Cortines. Flower transcriptional response to long term hot and cold environments in *Antirrhinum majus*. *Frontiers in Plant Science*. 14, 27/01/2023.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No

- 2 Anna Caterina Pozzer; Perla A. Gómez; Julia Weiss. Volatile organic compounds in aquatic ecosystems – Detection, origin, significance and applications. *Science of the total environment*. 838, pp. 156155 - 156155. Elsevier, 28/05/2022. Available on-line at: <<https://doi.org/10.1016/j.scitotenv.2022.156155>>.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 3**Corresponding author:** Yes



- 3** Margarita Ros; Onurcan Özbolat; Virginia Sánchez-Navarro; Julia Weiss; Raúl Zornoza; José Antonio Pascual; Juana-María Vivo; Jessica Cuartero Cuartero. Long-Term Compost Amendment Changes Interactions and Specialization in the Soil Bacterial Community, Increasing the Presence of Beneficial N-Cycling Genes in the Soil. *Agronomy*. 12 - 2, pp. 316. 26/01/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** Jessica Cuartero; Onurcan Özbolat; Virginia Sánchez-Navarro; Julia Weiss; Raúl Zornoza; José Antonio Pascual; Juana-María Vivo; Margarita Ros. Long-Term Compost Amendment Changes Interactions and Specialization in the Soil Bacterial Community, Increasing the Presence of Beneficial N-Cycling Genes in the Soil. *Agronomy*. 12 - 2, pp. 316 - 316. MDPI, 26/01/2022.
Type of production: Scientific paper
Corresponding author: No
- 5** Victoria Ruiz Hernández; Lize Joubert; Amador Rodríguez Gómez; Silvia Artuso; Jonathan G. Patrick; Perla A. Gómez; Sarah Eckerstorfer; Sarah Sophie Brandauer; Carolina G. I. Trcka Rojas; Luis Martínez Reina; Josh Booth; Alex Lau-Zhu; Julia Weiss; Pablo Bielza; Beverley J. Glover; Robert R. Junker; Marcos Egea-Cortines. Humans Share More Preferences for Floral Phenotypes With Pollinators Than With Pests. *Frontiers in Plant Science*. *Frontiers*, 23/08/2021. Available on-line at: <10.3389/fpls.2021.64>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 6** Marta I. Terry; Victoria Ruiz Hernández; Diego J. Águila; Julia Weiss; Marcos Egea-Cortines. The effect of post-harvest conditions in narcissus sp. cut flowers scent profile. *Frontiers on Plant Science*. *Frontiers*, 2021. Available on-line at: <<https://doi.org/10.3389/fpls.2020.540821>>.
Type of production: Scientific paper **Format:** Journal
- 7** Fernando Perez Sanz; Victoria Ruiz Hernández; Marta I. Terry; Sarah Arce Gallego; Julia Weiss; Pedro Javier Navarro; Marcos Egea Cortines. gcProfileMakeR: An R Package for Automatic Classification of Constitutive and Non-Constitutive Metabolites. *Metabolites*. 11, pp. 211. MDPI, 2021. Available on-line at: <<https://doi.org/10.3390/metabo11040211>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 8** Maria Victoria Díaz-Galián; Magdalena Torres; Jose David Sanchez-Pagán; Pedro J. Navarro; Julia Weiss; Marcos Egea-Cortines. Enhancement of strawberry production by blue and red LED lights in research and commercial greenhouses. *South African Journal of Botany*. 7, Elsevier, 2020. Available on-line at: <<https://doi.org/10.1016/j.sajb.2020.05.004>>.
Type of production: Scientific paper
Corresponding author: No
- 9** Claudio Brandoli; Cesar Petri; Marcos Egea-Cortines; Julia Weiss. The clock gene *Gigantea1* from *Petunia hybrida* coordinates vegetative growth and inflorescence architecture. *Scientific Reports*. 10, pp. 275. Nature, 2020. Available on-line at: <<https://doi.org/10.1038/s41598-019-57145-9>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 10** Marta Martos-Fuentes; Catalina Egea-Gilabert; I. Mezaka; Juan Antonio Fernández Hernández; Marcos Egea Cortines; Julia Weiss. Distance analysis among northern and southern European legume accessions using Next-Generation Sequencing reveal discrepancies between geographic and genetic origins. *Scientia Horticulturae*. 243, pp. 498 - 505. 2019.
Type of production: Scientific paper **Format:** Journal

Corresponding author: Yes

- 11** Marta I. Terry; Fernando Pérez-Sanz; M. Victoria Díaz-Galián; Felipe Pérez de los Cobos; Pedro J. Navarro; Marcos Egea-Cortines; Julia Weiss. The Petunia CHANEL Gene is a ZEITLUPE Ortholog Coordinating Growth and Scent Profiles. Cells. 8, pp. 343. MDPI, 2019. Available on-line at: <10.3390/cells8040343>.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 12** Marta I. Terry; Fernando Pérez-Sanz; Pedro J. Navarro; Julia Weiss; Marcos Egea-Cortines. The Snapdragon LATE ELONGATED HYPOCOTYL Plays A Dual Role in Activating Floral Growth and Scent Emission. Cells. 8 - 8, pp. 920. MDPI, 2019. Available on-line at: <10.3390/cells8080920>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 13** Marta I. Terry; Marta Carrera-Alesina; Julia Weiss; Marcos Egea-Cortines. Transcriptional Structure of Petunia Clock in Leaves and Petals. Genes. 10 - 11. pii: E860, MDPI, 2019. Available on-line at: <10.3390/genes10110860>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 14** Victoria Ruiz-Hernandez; María José Roca; Marcos Egea-Cortines; Julia Weiss. A comparison of semi-quantitative methods suitable for establishing volatile profiles. BMC Plant Methods. 14, pp. 67. BMC Springer Nature, 2018. Available on-line at: <https://doi.org/10.1186/s13007-018-0335-2>.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 15** Julia Weiss; Marta I. Terry; Marina Martos-Fuentes; Lisa Letourneux; Victoria Ruiz-Hernandez; Juan A. Fernandez; Marcos Egea-Cortines. Diel pattern of circadian clock and storage protein gene expression in leaves and during seed filling in cowpea (Vigna unguiculata) Revista: BMC Plant Biology. BMC Plant Biology. 18 - 1, BMC, 2018. Available on-line at: <0.1186/s12870-018-1244-2>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 7

Corresponding author: Yes

Source of citations: Juan A. Fernandez

Source of citations: Lisa Letourneux

Source of citations: Marcos Egea-Cortines

Source of citations: Victoria Ruiz-Hernandez

Source of citations: s

- 16** Victoria Ruiz-Hernández; Benjamin Hermans; Julia Weiss; Marcos Egea-Cortines. Genetic Analysis of Natural Variation in Antirrhinum Scent Profiles Identifies BENZOIC ACID CARBOXYMETHYL TRANSFERASE As the Major Locus Controlling Methyl Benzoate Synthesis. Frontiers in Plant Science. 13, Frontiers, 2017. Available on-line at: <10.3389/fpls.2017.00027>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 17** Aureliano Bombarely; Michel Moser; Avichai Amrad; Manzhu Bao; Laure Bapaume; Cornelius Barry; Mattijs Blik; Maaïke Boersma; Lorenzo Borghi; Rémy Bruggmann; Marcel Bucher; Nunzio D'Agostino; Kevin Davies; Massimo Delledonne; Uwe Druege; Natalia Dudareva; Marcos Egea-Cortines; Noe Fernandez-Pozo; Philipp Franken; Laurie Grandont; Pat Heslop-Harrison; Jennifer Hintzsche; Mitrick Johns; Ronald Koes; Xiaodan Lv; Eric Lyons; Diwa Malla; Enrico Martinoia; Neil Mattson; Lukas Mueller; Joelle Mühlemann; Eva Nouri; Valentina Passeri; Mario

Pezzotti; Qi Qinzhou; Didier Reinhardt; Melanie Rich; Katja Richert-Pöggeler; Timothy Robbins; Michael Schatz; M. Eric Schranz; Robert C. Schuurink; Trude Schwarzacher; Cornelis Spelt; Haibao Tang; Susan Urbanus; Michiel Vandenbussche; Kitty Vijverberg; Gonzalo Villarino; Ryan Warner; Julia Weiss; Zhen Yue; Jan Zethof; Francesca Quattrocchio; Thomas Sims; Cris Kuhlemeier. Insight into the evolution of the Solanaceae from the parental genomes of *Petunia hybrida*. *Nature Plants*. 2 - 6, Nature, 2016. Available on-line at: <10.1038/nplants.2016.74>.

Type of production: Scientific paper

Format: Scientific and technical document or report

Corresponding author: No

- 18** Pedro J. Navarro; Fernando Pérez-Sanz; Julia Weiss; Marcos Egea-Cortines. Machine Learning and Computer Vision System for Phenotype Data Acquisition and Analysis in Plants. *Sensors*. 16(- 5, pp. 641. MDPI, 2016. Available on-line at: <10.3390/s16050641>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 19** Julia Weiss; Raquel Alcantud-Rodriguez; Tugba Toksöz; Marcos Egea-Cortines. Meristem maintenance, auxin, jasmonic and abscisic acid pathways as a mechanism for phenotypic plasticity in *Antirrhinum majus*. *Scientific Reports*. 6 - 19807, Nature, 2016. Available on-line at: <10.1038/srep19807>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 20** Julia Weiss; Joëlle K. Mühleman; Victoria Ruiz-Hernández; Natalia Dudareva; Marcos Egea-Cortines. Phenotypic Space and Variation of Floral Scent Profiles during Late Flower Development in *Antirrhinum*. *Frontiers in Plant Science*. 12, Frontiers, 2016. Available on-line at: <10.2289/fpls.2016.01903>.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 21** Marta Pawluczyk; Julia Weiss; Matthew G. Links; Mikel Egaña Aranguren; Mark D. Wilkinson; Marcos Egea-Cortines. Quantitative evaluation of bias in PCR amplification and next-generation sequencing derived from metabarcoding samples. *Anal Bioanal Chem*. 407, pp. 1841 - 1848. Springer, 2015.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 22** Fabiola Ruiz-Ramon; Diego Águila; Marcos Egea-Cortines; Julia Weiss. Optimization of fragrance extraction: daytime and flower age affect scent emission in simple and double narcissi. *Ind. Crops Prod*. 52, pp. 671 - 678. 2014.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 23** María Manchado-Rojo; Julia Weiss; Marcos Egea-Cortines. Validation of *Aintegumenta* as a gene to modify floral size in ornamental plants. *Plant Biotechnol J*. 12, pp. 1053 - 1065. Wiley-Blackwell, 2014.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 24** Vera Antolinos; Pablo S. Fernández; María Ros-Chumillas; Paula M. Periago; Julia Weiss. Development of a High-Resolution Melting-Based Approach for Efficient Differentiation Among *Bacillus cereus* Group Isolates. *Foodborne Pathogens and Disease*. 9 - 9, pp. 777 - 785. Mary Ann Liebert Inc. publishers, 2012.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 25** Pedro J. Navarro; Carlos Fernández; Julia Weiss; Marcos Egea-Cortines. Development of a configurable growth chamber with a vision system to study circadian rhythm in plants. *Sensors*. 12, pp. 15356 - 15375. MDPI, 2012.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 26** Izaskun Mallona-González; Perla Gomez-di-Marco; José María Fernández-Valera; Marcos Egea-Cortines. Genotyping Antirrhinum commercial varieties using miniature inverted-repeat transposable elements (MITEs). *Scientia Horticulturae*. 144, pp. 161 - 167. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 27** Maria Manchado-Rojo; Luciana Delgado-Benarroch; María José Roca; Julia Weiss; Marcos Egea-Cortines. Quantitative levels of Deficiens and Globosa during late petal development show a complex transcriptional network topology of B function. *The Plant Journal*. 72, pp. 294 - 307. Wiley Online Library, 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 28** Izaskun Mallona; Marcos Egea-Cortines; Julia Weiss. Conserved and divergent expression rhythms of CAM related- and core clock genes in the Cactus *Opuntia ficus-indica*. *Plant Physiology*. 156, pp. 1978 - 1989. Oxford Academic Journals, 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 29** Marta Pawluczyk; Julia Weiss; María José Vicente; Marcos Egea-Cortines. Two alleles of rpoB and rpoC1 distinguish an endemic European population from *Cistus heterophyllus* and its putative hybrid (*C. x clausonis*) with *C. albidus*. *Plant Systematic and Evolution*. 298 - 2, pp. 409 - 419. Springer, 2011. Available on-line at: <10.1007/s00606-011-0554-8>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 30** Izaskun Mallona; Julia Weiss; Marcos Egea-Cortines. pcrEfficiency: A Web tool for PCR amplification efficiency prediction. *BMC Bioinformatics*. 12, pp. 404. BMC Springer Nature, 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 31** Perla A. Gómez di Marco; Magali Pagnon; Marcos Egea-Cortines; Francisco Artés; Julia Weiss. A fast molecular non-destructive protocol for evaluating aerobic bacterial load on fresh-cut lettuce. *Food Science and Technology International*. 6 - 5, pp. 409 - 415. SAGE Journals, 2010. Available on-line at: <10.1177/1082013210366882>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 32** Izaskun Mallona; Sandra Lischewski; Julia Weiss; Bettina Hause; Marcos Egea-Cortines. Validation of endogenous genes as controls for quantitative real-time PCR during leaf and flower development in *Petunia hybrida*. *BMC Plant Biology*. 10 - 4, BMC Springer Nature, 2010. Available on-line at: <0.1186/1471-2229-10-4>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 33** Luciana Delgado Benarroch; Berry Causier; Julia Weiss; Marcos Egea-Cortines. FORMOSA controls cell division and expansion during floral development in *Antirrhinum majus*. *Planta*. 229, pp. 1219 - 1229. Springer, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 34** Luciana Delgado Benarroch; Julia Weiss; Marcos Egea-Cortines. Floral organ size control: interplay between organ identity, developmental compartments and compensation mechanisms. *Plant Signalling and Behaviour*. 9, pp. 814 - 817. Taylor and Francis online, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

- 35** Perla A. Gomez di Marco; María Ángeles Ferrer; Juan Pablo Fernandez-Trujillo; Antonio A. Calderón; Francisco Artes; Marcos Egea-Cortines; Julia Weiss. Structural changes, chemical composition and antioxidant activity of cherry tomato fruits (cv. Micro-Tom) stored under optimal and chilling conditions. *Journal of the Science of Food and Agriculture*. 89, pp. 1543 - 1551. 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 36** Luciana Delgado Benarroch; Julia Weiss; Marcos Egea-Cortines. The mutants compacta ähnlich, Nitida and Grandiflora define developmental compartments and a compensation mechanism in floral development in *Antirrhinum majus*. *Journal of Plant Research*. 122, pp. 559 - 569. Springer, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 37** Marcos Egea-Cortines. Transcriptomic analysis of cold response in tomato fruits identifies dehydrin as marker to study cold stress. *Journal of Applied Genetics*. 50, pp. 311 - 319. Springer, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 38** Angelique Renard; Perla Gómez di-Marco; Marcos v; Julia Weiss. Application of whole genome amplification and quantitative PCR for detection and quantification of spoilage yeasts in orange juice. *Internacional Journal of Food Microbiology*. 126, pp. 195 - 201. Elsevier, 2008.
Type of production: Scientific paper
Corresponding author: Yes
- 39** Julia Weiss; Marcos Egea-Cortines. Teaching applied genetics and molecular biology to agriculture engineers. Application of the European Credit Transfer System. *Internacional Journal of Engineering Education*. pp. 59 - 66. 2008.
Type of production: Scientific paper **Format:** Journal
- 40** María Manchado-Rojo; Julia Weiss; Marcos Egea-Cortines. Using 23 rDNA to identify contaminations of *E. coli* in *Agrobacterium tumefaciens* cultures. *Analytical Biochemistry*. 372, pp. 253 - 254. Elsevier, 2008.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 41** Almudena Bayo-Canha; Luciana Delgado-Benarroch; Julia Weiss; Marcos Egea-Cortines. Artificial decrease of leaf area affects inflorescence quality but not floral size in *Antirrhinum majus*. *Scientia Horticulturae*. 113, pp. 383 - 386. 2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 42** Maria Ros-Chumillas; Leandro Peña; Marcos Egea-Cortines. Effect of storage and processing on plasmid, yeast and plant genomic DNA stability in juice from genetically modified oranges. *Journal of Biotechnology*. 128, pp. 194 - 203. Elsevier, 2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 43** María Ros-Chumillas; Marcos Egea-Cortines; Antonio Lopez-Gomez; Julia Weiss. Evaluation of a rapid DNA extraction method to detect yeast cells by PCR in orange juice. *Food Control*. 18, pp. 33 - 39. Elsevier, 2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes

- 44** Agim Ballvora; Maria Ercolano; Julia Weiss; Khalid Meksem; Christina Borman; Petra Oberhagemann; Francesco Salamini; Christiane Gebhardt. The R1 gene for potato resistance to late blight (*Phytophthora infestans*) belongs to the leucine zipper/NBS/LRR class of plant resistance genes. *The Plant Journal*. 30, pp. 361 - 372. Wiley Online Library, 2002.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 45** Lea Scheinvar; Yosef Mizrahi. *Selenicereus megalanthus* (the yellow pitaya). A climbing cactus from Colombia. *Cactus and Succulent Journal (US)*. 67, pp. 280 - 283. Cactus and Succulent Society of America, 1995.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 46** Julia Weiss; Avinoam Nerd; Yosef Mizrahi. Flowering and pollination requirements in climbing cacti with fruit crop potential. *HortScience*. 29, pp. 1487 - 1492. ASHS, 1994.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 47** Julia Weiss; Avinoam Nerd; Yosef Mizrahi. Studies on reproductive biology in *Cereus peruvianus* cultivated in Israel. *The Israel Journal of Plant Science*. 42, pp. 149 - 158. Brill, 1994.
Type of production: Scientific paper **Format:** Journal
- 48** Julia Weiss. Growth of the grain of wheat (*Triticum aestivum* L.). Significance of timing of greening. *Eur. J. Agron.* 2, pp. 93 - 98. Elsevier, 1993.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 49** Julia Weiss; Avinoam Nerd; Yosef Mizrahi. Vegetative parthenocarpy in the cactus pear (*Opuntia ficus-indica*). *Annals of Botany*. 72, pp. 521 - 526. Oxford Academic Journals, 1993.
Type of production: Scientific paper **Format:** Journal
- 50** Marcos Egea-Cortines; Fabiola Ruiz-Ramon; Julia Weiss. Circadian Regulation of Horticultural Traits: Integration of Environmental Signals. *Horticultural Reviews*. 41, pp. 1 - 46. Wiley-Blackwell, 2013. ISBN 978-1-118-70737-1
Type of production: Book chapter **Format:** Book
Corresponding author: No
- 51** Luciana Delgado-Benarroch; Julia Weiss; Marcos Egea-Cortines. Sizing up the flower. *The Flowering Process and its Control in Plants: Gene Expression and Hormone Interaction*. pp. 199 - 216. Research Signpost, Kerala, India, 2011.
Type of production: Book chapter **Format:** Book
Corresponding author: No
- 52** Julia Weiss; Emilio Cano-Vicente; Marcos Egea-Cortines. From the wild to the market: evolution of floral size and architecture in ornamentals. *Floriculture, Ornamental and Plant Biotechnology: Advances and Topical Issues*. pp. 71 - 75. Global Science Books, London, UK, 2006.
Type of production: Book chapter **Format:** Book
Corresponding author: No
- 53** Julia Weiss; Lorenzo Burgos; Julia Weiss. Biotechnology in crops. *Crops, Growth, quality and biotechnology*. WFL Science and Technology; Finland, 2005. ISBN 9529186010
Type of production: Book chapter
Corresponding author: No



- 54** Julia Weiss; Avinoam Nerd; Yosef Mizrahi. Development of *Cereus peruvianus* (apple cactus) as a new crop for the Negev Desert of Israel. *New Crops*. pp. 491 - 495. John Wiley and Sons, Inc.; New York, 1993.
Type of production: Book chapter **Format:** Book
- 55** Eran Raveh; Julia Weiss; Avinoam Nerd; Yosef Mizrahi. Introduction of pitayas of the genus *Hylocereus* as a new orchard crop to the Negev Desert of Israel. *New Crops*. pp. 491 - 495. John Wiley and Sons, Inc.; New York, 1993.
Type of production: Book chapter **Format:** Book
- 56** Claudio Brandoli; Cesar Petri; Marcos Egea-Cortines; Julia Weiss. Gigantea: Uncovering new functions in flower development. *Genes*. 11, pp. 1142. MDPI, 2020. Available on-line at: <10.3390/genes11101142>.
Type of production: Review **Format:** Journal
Corresponding author: Yes
- 57** María Victoria Díaz-Galián; Fernando Perez-Sanz; Jose David Sanchez-Pagán; Julia Weiss; Marcos Egea-Cortines; Pedro J. Navarro. A Proposed Methodology to Analyze Plant Growth and Movement from Phenomics Data. Remote sensing. 11, pp. 2839. MDPI, 2019. Available on-line at: <doi:10.3390/rs11232839>.
Type of production: Review **Format:** Journal
Corresponding author: No
- 58** Marcos Egea-Cortines; Ioannis Karapanos; Ana Barros; Julia Weiss; Astrit Balliu; Eduardo Augusto dos Santos Rosa; Dimitrios Savvas. The quality of leguminous vegetables as influenced by preharvest factors. *Sciencia Horticulturae*. 232, pp. 191 - 205. Elsevier, 2018.
Type of production: Review **Format:** Journal
Corresponding author: No
- 59** Marcos Egea-Cortines; Julia Weiss. Control of Plant Organ Size. *Ls*. 9, pp. 1 - 9. Wiley Online Library, 2013. Available on-line at: <10.1002/9780470015902.A0003363.PUB2>.
Type of production: Review **Format:** Journal
Corresponding author: Yes
- 60** Julia Weiss; Luciana Delgado-Benarroch; Marcos Egea-Cortines. Genetic control of floral size and proportions. *International Journal of Developmental Biology*. 49, pp. 513 - 525. University of the Basque Country Press, 2005.
Type of production: Review **Format:** Journal
Corresponding author: No
- 61** Marcos Egea-Cortines; Julia Weiss. A rapid coming of age in tree biotechnology. *Nature Biotechnology*. 19, pp. 215 - 216. Nature Publishing Group, 2001.
Type of production: Review **Format:** Journal



Other achievements

Obtained grants and scholarships

Name of the grant: Salvador de Madariaga

Aims: Estancias de Profesores e investigadores seniores en centros extranjeros de enseñanza superior e investigación

Awarding entity: Ministerio de Educación. PR2010-0592

Conferral date: 01/06/2011

Duration: 3 months

End date: 31/08/2011

Entity where activity was carried out: Purdue University, Indiana, USA

Scientific societies and professional associations

1 Name of the society: Sociedad Española de Genética
Start date: 01/07/2021

2 Name of the society: EUCLIDES network www.euclidesnet.eu/partners/
Affiliation entity: European Universities Collaborative Links Developments in Engineering Sciences
City affiliation entity: 01/01/2019,

Periods of research activity

Nº of recognized periods: 4

Certifying entity: CNEAI

City certifying entity: Spain

Date of recognition: 27/12/2019

Summary of other achievements

1 Description of the achievement: Subdirectora de Relaciones Internacionales de la Escuela Técnica Superior de Ingeniería Agronómica

Accrediting entity: Universidad Politécnica de Cartagena

Type of entity: University

Conferral date: 01/01/2016

2 Description of the achievement: Responsable de la Unidad de Genética Molecular del Instituto de Biotecnología Vegetal

Accrediting entity: Universidad Politécnica de Cartagena

Type of entity: University

Conferral date: 01/07/2014

3 Description of the achievement: Secretaria del Departamento de Ciencia y Tecnología Agraria

Accrediting entity: Universidad Politécnica de Cartagena

Type of entity: University



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CURRÍCULUM VÍTAE NORMALIZADO

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Conferral date: 01/06/2010