



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



« *CURRICULUM VITAE* »

(Abbreviated)

Name: Dr Oscar VICENTE

Position: Professor of Biochemistry and Molecular Biology
Department of Biotechnology
Universitat Politècnica de València/Polytechnic University of Valencia (Spain)

(Updated: **November, 2023**)

I. GENERAL INFORMATION

1. PERSONAL DATA

Family name: Vicente Meana

First name: Oscar

2. PRESENT POSITION AND AFFILIATION

- Professor of Biochemistry and Molecular Biology (*Catedrático de Universidad*), Department of Biotechnology, Universitat Politècnica de València / Polytechnic University of Valencia (UPV)

- Research group leader at the Institute for the Conservation and Improvement of Valencian Agrodiversity (COMAV), Universitat Politècnica de València / Polytechnic University of Valencia

Postal Address:

COMAV
CPI, Edificio 8E
Universidad Politécnica de Valencia
Camino de Vera s/n
46022 Valencia (Spain)

3. SCIENTIFIC FIELDS (UNESCO codes): Plant Molecular Biology (241502); Genetic Engineering (240902); Plant development (241715); Plant Ecology (241713); Plant Physiology (241719)

RESEARCH FIELDS OF HIGHEST INTEREST:

- **General:** plant biochemistry and molecular biology / plant stress physiology / plant biotechnology
- **Specific:** plant responses to abiotic stress and stress tolerance mechanisms / biotechnology of plant reproduction

II. ACADEMIC BACKGROUND

- **Graduate** (*Licenciado*, five-year university studies) in Chemical Sciences (Specialisation: Biochemistry). Universidad Complutense, Madrid. July 1978.

- **Ph.D.** in Sciences (Section Chemistry). Universidad Autónoma, Madrid. October 1983.

III. PREVIOUS TRAINING AND PROFESSIONAL POSITIONS

1978 - 1983 Pre- and post-graduate student (Graduate and Ph.D. Theses) at "Centro de Biología Molecular Severo Ochoa", Univ. Autónoma de Madrid (UAM).

1978 "Profesor Ayudante", UAM. Dept. of Virology and Molecular Genetics.

1979 - 1981 Fellowship (pre-doctoral) "Research in Biomedical Sciences" from Caja de Ahorros y Monte de Piedad de Madrid.

1982 - 1985 Fellowship for "Training of Research Personnel", from the Ministry of Education and Science, Spain.

1985 - 1987 Post-doctoral fellowship (Plan of Molecular Biology and its Applications, Juan March Foundation, Madrid), at the Friedrich Miescher-Institut (FMI), Basel (Switzerland).

1987 - 1988 Post-doc contract from FMI

1988 - 1990 Post-doctoral fellowship from the Spanish Ministry of Education and Science at the Institute of Microbiology and Genetics, University of Vienna (Austria).

1990 - 1991 *Wissenschaftlichermitarbeiter* (scientific collaborator) hired by the Institute of Microbiology and Genetics. Research group leader.

1991 - 1996 *Wissenschaftlichermitarbeiter* (1/2 position) and *Vertragsassistent* (Assistant Professor) hired by the University of Vienna (1/2 position). Research group leader at the Institute of Microbiology and Genetics.

1996 - 1999 "Return" contract for scientists abroad, from the Spanish Ministry of Education and Science. Institute for Plant Molecular and Cell Biology (IBMCP), Polytechnic University of Valencia (UPV).

1999 - 2003 'Profesor Titular de Escuela Universitaria' at UPV / group leader at IBMCP

2003 - 2010 'Profesor Titular de Universidad' (Associate Professor) at UPV / group leader at IBMCP

2010 - 2019 'Catedrático de Universidad' (Full Professor) at UPV / group leader at IBMCP. Group leader at COMAV since September 2019

IV. TEACHING ACTIVITIES

1. PRE- AND POST-GRADUATE TEACHING

- **1978.** "Profesor Ayudante" (Assistant Professor), UAM. Department of Virology and Molecular Genetics. Collaboration in the organisation and teaching of a practical course on *Biochemical Methods*.

- **1979 - 1984.** As a pre-doctoral fellow in the Department of Virology and Molecular Genetics (UAM), I collaborated as an instructor in practical courses on *Biochemical Methods* and *Molecular Genetics* (2-3 weeks per academic year).

- **1991 - 1996.** Assistant Professor (*Vertragsassistent*), University of Vienna. Institute of Microbiology and Genetics. Responsible for several theoretical and practical courses on Experimental Genetics: *Proseminar zur Experimentellen Genetik II*. (theoretical course on Molecular Genetics), *Experimentelle Genetik II* (theoretical/practical course on Molecular Genetics), *Experimentelle Genetik III* (theoretical/practical course on Plant Genetics), *Experimentelle Genetik IV* (practical course on Plant Genetics). Supervision of Diploma and PhD Theses.

- **from 1999.** Professor of Biochemistry and Molecular Biology. Department of Biotechnology. School of Agricultural Engineering and Environment (ETSIAMN). Polytechnic University of Valencia. Responsible for theoretical and practical courses in the molecular biology / biotechnology fields ("Recombinant DNA Technology", "Food Biochemistry", "Molecular Biology", "Plant Biochemistry and Molecular Biology", "Biotechnology and Society", "Plant Reproductive Biotechnology", "Genetic Engineering", amongst others) to undergraduate students of Biotechnology, Biomedical Engineering, Agronomic Engineering, Food Science and Technology, as well as to post-graduate students. Supervision of the experimental work of visiting scientists, exchange students (Erasmus, Erasmus+ and other international mobility programmes), Graduate Degree and Master Theses Projects, and PhD Theses.

2. SUPERVISION OF Ph. D. THESES

1. **Anna Alwen** (1991). Detection and characterisation of an endogenous β -glucuronidase activity in plants. Faculty of Sciences. University of Vienna.

2. **Norbert Eller** (1993). Konstruktion von cDNA Bibliotheken sowie die Isolierung und Charakterisierung eines cdc2 homologen Gens aus *Nicotiana tabacum*. Faculty of Sciences. University of Vienna.

3. **Ines Swoboda** (1995). Isolation and characterisation of a birch gene family encoding pollen allergens and pathogenesis-related proteins. Faculty of Sciences. University of Vienna. *Austrian Society of Biotechnology's Award for the best Ph D Thesis in 1995*.

4. **Miguel Angel Naranjo** (2001). Caracterización de una lipasa atípica de *Arabidopsis thaliana* implicada en la tolerancia a sal. Higher Technical School of Agronomic Engineering (ETSIA). Polytechnic University of Valencia.

5. **José Javier Forment Millet** (2002). Aislamiento de genes de *Arabidopsis thaliana* implicados en la tolerancia a sal de las células eucarióticas: relación entre procesamiento del pre-mRNA y halotolerancia. ETSIA. Polytechnic University of Valencia.

6. Lucrecia Bourgon Baquedano (2006). Análisis de la expresión del factor de *splicing* SRL1 de *Arabidopsis thaliana* implicado en mecanismos de tolerancia a estrés salino. ETSIA. Polytechnic University of Valencia.

7. Bartolomé Amorós Seller (2008). RCY 1: Proteína nuclear relacionada con el estrés salino. ETSIA. Polytechnic University of Valencia.

8. José Félix Moruno Manchón (2013). Regulación de la degradación intracelular de proteínas por glucosa. Polytechnic University of Valencia (Academic Tutor)

9. Mohamad Al Hassan (2016). Comparative Analyses of Plant Responses to Drought and Salt Stress in Related Taxa: A Useful Approach to Study Stress Tolerance Mechanisms. Polytechnic University of Valencia.

10. Orsolya Borsai (2018). Responses to drought and salinity of several *Portulaca* genotypes. University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca (Romania).

11. Sara González Orenga (2021). Mecanismos de tolerancia a estrés salino e hídrico en plantas endémicas, raras o amenazadas. Polytechnic University of Valencia.

12. Sugenith Arteaga Castillo (2021). Cultivos para el cambio climático: selección y caracterización de variedades de judía (*Phaseolus vulgaris* L.) tolerantes a sequía y salinidad. Polytechnic University of Valencia.

- (also supervision of over 30 Master, 'Diploma' and 'Graduate Degree' Theses; supervision of exchange Erasmus students and visiting scientists)

V. RESEARCH ACTIVITIES AND PUBLICATIONS

1. SUMMARY

- Participation in > 45 research projects or contracts (in seven of them as 'scientific supervisor', in ten as Project leader/Principal investigator).

- Co-author of ~ 230 scientific publications, 185 of them included in Clarivate Analytics' 'ISI Web of Science / Journal Citation Reports': 146 original research papers, 13 review articles, 4 proceedings papers, 17 meeting abstracts, 3 editorial materials, 1 letter, 1 note. Total number of citations: 4520; citations/article: ~ 25; citations/year: ~ 108; 'h-index' = 38. (Google Scholar: Citations: ~7800; 'h-index' = 49; i10-index: 122).

- Co-inventor in three patent applications

- Co-author in ~ 190 communications to national or international scientific Congresses.

- Author identifiers: Researcher ID (Web of Science): A-3858-2009
 Author ID (Scopus): 55945779600
 ORCID: 0000-0001-5076-3784

Links:

- UPV: http://www.upv.es/pls/oalu/sic_person.Info?p_alias=ovicente&P_IDIOMA=i

- Web of Science (Publons): <https://www.webofscience.com/wos/author/record/408191>

- Loop (Frontiers): <https://loop.frontiersin.org/people/268986/overview>

- Google Scholar:

https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=Oe7W8CUAAAJ&sortby=pubdate

2. RESEARCH PROJECTS / CONTRACTS

A) 1978 - 1988. Pre- and post-doctoral work

1. Mechanisms of regulation of protein synthesis in eukaryotic cells. eIF-2 and eIF-2 kinases in eukaryotes. 1978 - 1984. Centre of Molecular Biology 'Severo Ochoa', UAM-CSIC, Madrid (Spain) [including Graduate (*Licenciatura*) and PhD Theses].
2. Preparation of monoclonal antibodies against foot-and-mouth disease virus, 04/1985 - 09/1985. Centre of Molecular Biology 'Severo Ochoa', UAM - CSIC, Madrid (Spain).
3. Purification and characterisation of RNA 3'-terminal phosphate cyclase, from HeLa cells, 10/1985 - 08/1988. Post-doctoral fellowship/contract. Friedrich Miescher-Institut, Basel (Switzerland). Funded by CIBA - GEIGY AG.

B) 1989 - 1996. Institute of Microbiology and Genetics, University of Vienna (Austria)

4. "Gentransfer in Pflanzen" (Gene transfer in plants), 01/1989 - 12/1992. Funded by "biotechnologische Forschungsgesellschaft m.b.H. (BtF)" and "Forschungsförderungsfonds für die gewerbliche Wirtschaft (FFF)". *Type of participation*: project co-worker.
5. "Proteinkinasen in Pollen" (Protein kinases in pollen), 10/1989 - 09/1990. Funded by "Hochschuljubiläumsstiftung der Stadt Wien". *Type of participation*: scientific supervisor of the project.
6. "Gene der Pollen- und Embryonalentwicklung von Pflanzen" (Genes of pollen and embryo development in plants), 02/1990 - 09/1992. Project P7529-BIO, from "Fonds zur Förderung der wissenschaftlichen Forschung (FWF)". *Type of participation*: scientific supervisor of the project.
7. Gene expression during embryogenesis *in vitro*: comparison between somatic and pollen embryogenesis, 07/1990 - 06/1992. Collaboration with Prof. Denes Dudits' group, Biological Research Center, Hungarian Academy of Sciences, Szeged (Hungary). Funded by Bundesministerium für Wissenschaft und Forschung, BMWF, (Federal Ministry of Science and Research). *Type of participation*: scientific supervisor of the project, on the Austrian side.
8. "Generationswechsel höherer Pflanzen" (Alternation of generations in higher plants), 06/1991 - 05/1996. Project S6003-BIO from FWF. *Type of participation*: co-applicant (with Prof. Heberle-Bors) and scientific supervisor of the project.
9. "MAP kinasen und Pollenembryogenese" (MAP kinases and pollen embryogenesis), 10/1993 - 06/1996. Project P09676-MOB from FWF. *Type of participation*: applicant and project leader.
10. Pollen cellular and molecular biology, 03/1991 - 12/1994. Collaboration with Dr María del Carmen Risueño (Centro de Investigaciones Biológicas, C.S.I.C., Madrid) and Dr María Isabel Rodríguez-García (Estación Experimental del Zaidín, C.S.I.C., Granada). Funds for the exchange of scientific personnel, Spanish-Austrian Mixed Commission for Scientific and Technical Co-operation, Spanish Ministry of Foreign Affairs and Austrian Federal Ministry of Science and Research. *Type of participation*: scientific supervisor of the project, on the Austrian side.
11. Molecular and cellular basis of the process of androgenic induction in *Nicotiana tabacum* and *Capsicum annuum* (*Solanaceae*), 01/1995 - 12/1995. Collaboration with Dr María del Carmen Risueño (Centro de Investigaciones Biológicas, C.S.I.C., Madrid), within the "Integrated Actions Programme". *Type of participation*: scientific supervisor of the project, on the Austrian side.

12. "Antheren und Pollenkultur" (Anther and pollen cultures), 01/1993 - 12/1995. Project P9174-BIO, funded by FFF and FWF. *Type of participation:* project co-worker.

13. Cell cycle regulation in pollen, 03/1993 - 02/1996. Project OWP39 from BMWF, collaboration with Prof. Jaroslav Tupý, Institute of Experimental Botany, Czech Academy of Sciences, Prague (Czech Republic). *Type of participation:* scientific supervisor of the project, on the Austrian side.

14. Anther and pollen cultures for haploid production in forest species, 01/1995 - 03/1996. Collaboration with Dr María Ángeles Bueno (Centro de Investigación Forestal, I.N.I.A., Madrid), within the "Integrated Actions Programme". *Type of participation:* applicant and project leader, on the Austrian side.

15. MAP kinases in tobacco pollen, 06/1996 - 05/1998. Project P11481-GEN from FWF. *Type of participation:* applicant and project leader.

C) from 1996. Institute for Plant Molecular and Cell Biology (IBMCP), Institute for the Conservation and Improvement of Valencian Agrodiversity (COMAV), Polytechnic University of Valencia

16. New strategies for improving salt tolerance in crop plants (SALTO), (11/1996 - 10/1997). EU BIOTECH Project (AIR3 CT94-1508). *Type of participation:* project co-worker.

17. Aislamiento y expresión en plantas de genes que confieran tolerancia a sequía y salinidad: genes HAL y EHA (Isolation and expression in plants of genes conferring tolerance to drought and salt: HAL and EHA genes) (11/1997 - 07/1999). CICYT, National Plan of Biotechnology, project BIO96-1196-C02-01. *Type of participation:* project co-worker.

18. Mejora de recursos genéticos en especies hortícolas de interés para la Comunidad Valenciana: Genes de estrés (Improvement of genetic resources in horticultural species of interest for the Valencian Community: Stress genes), (08/2000 - 12/2003). Consellería de Agricultura, Pesca y Alimentación, Generalitat Valenciana (Regional Government of Valencia). *Type of participation:* member of the research team.

19. Regulación post-transcripcional de la respuesta a estrés en plantas: el *splicing* de los precursores del RNA mensajero como diana de la toxicidad iónica de la sal (Postranscriptional regulation of stress responses in plants: the splicing of messenger RNA precursors as a target of salt toxicity) (12/2000 - 12/2003) Project BMC2000-1130, Spanish Ministry of Science and Technology, National Plan of R+D. *Type of participation:* applicant and project leader.

20. Estudio de la biodiversidad de las poblaciones de *Rosmarinus* en la Comunidad Valenciana (Studies on the biodiversity of *Rosmarinus* populations in the Valencian Community) (01/2001 - 12/2002). Project GV00-060-3, Consellería de Cultura, Educación y Ciencia, Generalitat Valenciana. *Type of participation:* member of the research team.

21. Proyecto Genoma Cítricos: Estrés Abiótico (Citrus Genome Project: Abiotic Stress) (01/2001 - 12/2002). Consellería de Agricultura, Pesca y Alimentación, Generalitat Valenciana. *Type of participation:* member of the research team.

22. Estudio de la respuesta a estreses bióticos de cítricos mediante genómica funcional (Study of the response to biotic stress in citrus through functional genomics) (12/2002 - 12/2005). Project **GEN2001-4885-C05-01** from the Spanish Ministry of Science and Technology (Strategic Action on Genomics and Proteomics). *Type of participation:* member of the research team.

- 23.** Ayuda al grupo: Biología molecular de la tolerancia a salinidad y sequía (Support for the group: Molecular biology of salt and drought tolerance) (01/2004 - 12/2005). Consellería de Empresa, Universitat i Ciència, Generalitat Valenciana. *Type of participation:* member of the research team.
- 24.** Licence of technology for salt resistance in plants (09/2000 - 12/2008). Funded by CropDesign N.V. (Zwijnaarde, Bélgica). *Type of participation:* member of the research team.
- 25.** Respuestas de las plantas al estrés abiótico: Correlación con las características edáficas de sus hábitats naturales (Plant responses to abiotic stress: Correlation with the edafic characteristics of their natural habitats) (01/2009 – 12/2011). Project **CGL2008-00438/BOS** from the Spanish Ministry of Science and Innovation, National Plan for R+D. *Type of participation:* applicant and project leader
- 26.** Respuestas de las plantas al estrés abiótico: Correlación con las características edáficas de sus hábitats naturales (07/2011 – 12/2011). Project **FPA/2011/001** from Generalitat Valenciana ('Gerónimo Forteza' Programme for training of technical research personnel). *Type of participation:* applicant and project leader
- 27.** Estudio de los efectos protectores de bioestimulantes frente a estrés abiótico en levaduras y plantas de tomate (Studies on the protective effects of 'biostimulants' against abiotic stress in yeast and tomato plants) (12/2010 – 12/2012). Project funded by the company 'Fertinagro Nutrientes S.L.' *Type of participation:* project leader
- 28.** Los CRFS como alternativa a los fertilizantes tradicionales: Buscando una mejor protección del medio ambiente (CRFS as an alternative to traditional fertilizers: Searching for a better protection of the environment) (2014 – 2017). Project **RTC-2014-1457-5** from the Spanish Ministry of Economy and Competitiveness (programme: Retos-Colaboración 2014). *Type of participation:* member of the research team
- 29.** 'European Plant Breeding College' (2015 – 2017) Project **2015-1-FR01-KA203-015095**. European Commission. *Type of participation:* member of the research team
- 30.** 'Supporting biotechnology students oriented towards an entrepreneurial path (SupBioEnt)' (2017-2019) Erasmus+ Project **2017-1-RO01-KA203-037304**. European Commission. *Type of participation:* project leader (of the Spanish partner)
- 31.** 'Development and characterization of eggplant pre-bred materials for adaptation to climate change' (01/2020-10/2020). The Global Crop Diversity Trust. *Type of participation:* member of the research team
- 32.** 'Identificación de germoplasma, mecanismos bioquímicos y expresión génica, útiles para la mejora a la salinidad en berenjena' ('Identification of germplasm, biochemical mechanisms and gene expression, useful for improving salinity tolerance in eggplant') (2020-2022) Project **AICO/2020/174**. Generalitat Valenciana. *Type of participation:* member of the research team
- 33.** L'Or blanc de L'Horta (OrxEco) (2020/VALORIZA/VSC/013). (01/07/20 - 15/11/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team
- L'Or Blanc de L'Horta (OrxEco) (Year 2). (26/05/21 - 26/11/21). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

34. Valorización del nabo fino de la Yesa: Caracterización, tipificación y selección en condiciones de cultivo ecológico (Valorisation of the Yesa's fine turnip: Characterisation, typification and selection under organic farming conditions). (2020/VALORIZA/VSC/005). (02/06/20 - 15/11/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

35. Selección y desarrollo de variedades de 'tomate de Penjar' adaptadas al cultivo ecológico en el entorno agroclimático de Alcala de Xivert (Selection and development of 'Penjar tomato' varieties adapted to organic cultivation in the agroclimatic environment of Alcala de Xivert) (2020/VALORIZA/VSC/004). (02/06/20 - 15/11/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

- Selección y desarrollo de variedades de 'tomate de Penjar' adaptadas al cultivo ecológico en el entorno agroclimático de Alcala de Xivert. (Year 3). (26/05/21 - 26/11/21). Consultancies, technical studies and advice. Generalitat Valenciana. *Type of participation:* member of the research team

36. Puesta en valor del 'Melo D'Or D'Ontinyent'. (Valorisation of 'Melo D'Or D'Ontinyent') (Year 2) (2020/VALORIZA/VSC/006). (02/06/20 - 15/11/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

- Puesta en valor del 'Melo D'Or D'Ontinyent'. (Year 3). (26/05/21 - 26/11/21). Consultancies, technical studies and advice. Generalitat Valenciana. *Type of participation:* member of the research team

37. Evaluación sensorial y de composición y puesta en valor de vinos producidos con uva moscatel de Alejandría en la Comunitat Valenciana, bajo el amparo de DOP Valencia y DOP Vinos Alicante, y aprovechamiento de subproductos (Sensory and composition evaluation and valuation of wines produced with Alejandria moscatel grape in the Valencian Community, under the protection of DOP Valencia and DOP Alicante wines, and use of by-products). (2020/VALORIZA/VSC/014). (27/07/20 - 27/11/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

- Evaluación sensorial y de composición y puesta en valor de vinos producidos con uva moscatel de Alejandría en la Comunitat Valenciana. (26/05/21 - 26/11/21). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

38. Evaluación, caracterización y valorización de la calidad nutricional, aromática y sensorial de aceites de oliva virgen extra monovarietales de cultivo ecológico bajo el amparo de la DOP 'Aceite de la Comunitat Valenciana', y aprovechamiento del subproducto alperujo (Evaluation, characterisation and valuation of the nutritional, aromatic and sensory quality of monovarietal extra virgin olive oil from organic farming under the protection of the PDO 'Oil of the Valencian Community') (2020/VALORIZA/VSC/017). (13/07/20 - 13/12/20). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

- Evaluación, caracterización y valorización de la calidad nutricional, aromática y sensorial de aceites de oliva virgen extra monovarietales de cultivo ecológico bajo el amparo de la DOP 'Aceite de la Comunitat Valenciana', y aprovechamiento del subproducto. (26/05/21 - 26/11/21). Competitive Research Projects. Generalitat Valenciana. *Type of participation:* member of the research team

39. Valorización del 'Garrofo Valencia': Estudio de la diversidad genética y de los fundamentos genéticos subyacentes en la coloración del grano y caracteres de producción (Valorisation of the 'Valencia Garroph': Study of the genetic diversity and the underlying genetic foundations in the grain

coloration and production characters). (26/05/21 - 26/11/21). Competitive Research Projects. Generalitat Valenciana. *Type of participation*: member of the research team

40. Resiliencia de una colección valenciana de germoplasma de rosal frente a agentes bióticos y abióticos para adaptación al cambio climático (Resilience of a Valencian collection of rose germoplasm against biotic and abiotic agents for adaptation to climate change). (26/05/21 - 26/11/21). Competitive Research Projects. Generalitat Valenciana. *Type of participation*: member of the research team

41. Horticultura sostenible, resiliente y saludable a través del uso de portainjertos y rotaciones de especies de alto valor y nuevos usos de hortalizas infrautilizadas (AGROALNEXT) (Sustainable, resilient and healthy horticulture through the use of rootstocks and rotations of high-value species and new uses of underused horticultural crops). (01/21 – 06/25). Generalitat Valenciana. *Type of participation*: member of the research team

42. 'Green education for green biotech enterprise (GreenBE)' (03/22 – 02/24). Erasmus+ Project **2021-1-RO01-KA220-HED-32162**. European Commission. *Type of participation*: project leader (of the Spanish partner).

43. Valorización y mejora de las variedades tradicionales de solanáceas para el desarrollo de una horticultura biodiversa, de bajos insumos y ecológica en un contexto de cambio climático (Valorisation and improvement of traditional solanaceous varieties for the development of biodiverse, low-input and ecological horticulture in a context of climate change) (01/22 – 12/25). **CIPROM/2021/020**. Competitive Research Projects. Generalitat Valenciana. *Type of participation*: member of the research team.

44. Utilización de líneas de introgresión y MAGIC en la mejora genética e identificación de genes de caracteres clave en berenjena (Use of introgression and MAGIC lines for the genetic improvement and identification of key trait genes in eggplant). (09/22 – 08/25). **PID2021-128148OB-I00**. Spanish 'State Research Agency'. *Type of participation*: member of the research team.

45. Evaluación de líneas de berenjena con introgresiones silvestres para su potencial transferencia al sector (Evaluation of eggplant lines with wild introgressions for their potential transfer to the sector). (12/22 – 11/24). **PDC2022-133513-I00**. Spanish 'State Research Agency'. *Type of participation*: member of the research team.

46. Agroecological strategies for sustainable weed management in key European crops (Agroecological strategies for sustainable weed management in key European crops). (06/23 – 05/27). **101084084**. European Commission. *Type of participation*: member of the research team.

47. Agroecological strategies for sustainable weed management in key European crops (AGROSUS) (06/23 – 05/27). Project: 101084084. European Research Executive Agency. *Type of participation*: member of the research team (UPV partner).

3. SCIENTIFIC PUBLICATIONS INCLUDED IN CLARIVATE ANALYTICS' WEB OF SCIENCE / JOURNAL CITATION REPORTS

1. Matilla, A. and Nicolás, G.; **Vicente, O.** and Sierra, J.M. (1980). Preformed mRNA in cotyledons of ungerminated seeds of *Cicer arietinum* L. *Plant Physiol.* **65**, 1128-1132. doi: 10.1104/pp.65.6.1128

2. Sierra, J.M., Palomo, C., **Vicente, O.** and Ochoa, S. (1983). Mechanisms of activation of eIF-2 kinase in rabbit reticulocyte lysates by oxidized glutathione. *Archivos de Biología y Medicina Experimentales* **16**, R80-R81.
3. García-Olmedo, F., Carbonero, P., Hernández-Lucas, C., Paz-Ares, J., Ponz, F., **Vicente, O.** and Sierra, J.M. (1983). Inhibition of eukaryotic cell-free protein synthesis by thionins from wheat endosperm. *Biochim. Biophys. Acta* **740**, 52-56. doi: 10.1016/0167-4781(83)90120-3
4. Palomo, C., **Vicente, O.**, Sierra, J.M. and Ochoa, S. (1985). Studies on the activation of the heme-stabilized translational inhibitor of reticulocyte lysates by oxidized glutathione and NADPH depletion. *Arch. Biochem. Biophys.* **239**, 497-507. doi: 10.1016/0003-9861(85)90718-0
5. Mateu, M.G., **Vicente, O.** and Sierra, J.M. (1987). Protein synthesis in *Drosophila melanogaster* embryos. Purification and characterization of polypeptide chain-initiation factor 2. *Eur. J. Biochem.* **162**, 221-229. doi: 10.1111/j.1432-1033.1987.tb10564.x
6. Mateu, M.G., Rocha, E., **Vicente, O.**, Vayreda, F., Navalpotro, C., Andreu, D., Pedroso, E., Giralt, E., Enjuanes, L. and Domingo, E. (1987). Reactivity with monoclonal antibodies of viruses from an episode of foot-and-mouth disease. *Virus Res.* **8**, 261-274. doi: 10.1016/0168-1702(87)90020-7
7. **Vicente, O.** and Filipowicz, W. (1988). Purification of RNA 3'-terminal phosphate cyclase from HeLa cells: Covalent modification of the enzyme with different nucleotides. *Eur. J. Biochem.* **176**, 431-439. doi: 10.1111/j.1432-1033.1988.tb14300.x
8. Mateu, M.G., Maroto, F.G., **Vicente, O.** and Sierra, J.M. (1989). Phosphorylation and guanine nucleotide exchange on polypeptide chain initiation factor-2 from *Artemia* embryos. *Biochim. Biophys. Acta* **1007**, 55-60. doi: 10.1016/0167-4781(89)90129-2
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- 179.** Ruiz-González, M. X. and **Vicente, O.** (2023). Agrobiodiversity: Conservation, threats, challenges, and strategies for the 21st Century. *AgroLife Sci. J.*, **12**(1), 174-185.
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- 183.** Mircea, D.M., Calone, R., Estrelles, E., Soriano, P., Sestras, R.E., Boscaiu, M., Sestras, A.F. and **Vicente, O.** (2023). Responses of different invasive and non-invasive ornamental plants to water stress during seed germination and vegetative growth. *Sci. Rep.* **13**, 13281. doi: 10.1038/s41598-023-40517-7
- 184.** Shakya, R., Capilla, E., Torres-Pagán, N., Muñoz, M., Boscaiu, M., Lupuț, I., **Vicente, O.** and Verdeguer, M. (2023). Effect of two biostimulants, based on *Ascophyllum nodosum* extracts, on

strawberry performance under mild drought stress. *Agriculture*, **13**, 2108. doi: 10.3390/*agriculture13112108*

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4. PATENTS

1. Manzanera, J.A., Bueno, M.A., **Vicente, O.** & Gómez, M.A. "Método para la obtención de embriones y plantas haploides de alcornoque

APPLICATION Nº 200001953

PRIORITY COUNTRY: Spain

PRIORITY DATE: 01/08/2000

PATENT HOLDERS: Universidad Politécnica de Madrid / Instituto Nacional de Investigación Agraria / Universidad Politécnica de Valencia

2. Oscar Vicente Meana, Marta Roldán Medina, Ramón Serrano Salom, Javier Forment Mullet, Miguel Á. Naranjo Olivero, Roc Ros Palau, & Rodolpho Arthur Kahnou. "Protection against environmental toxicity through manipulation of the processing of messenger RNA precursors"

APPLICATION Nº 20040203157

PRIORITY COUNTRY: Spain

PRIORITY DATE: 14/10/2004

PATENT HOLDER: Universidad Politécnica de Valencia

INTERNATIONAL APPLICATION: US [435468000 (USPTO)]

LICENSED TO:: *Ann R. Pokalsky Dilworth & Baresse – Uniondale, NY*

3. Oscar Vicente Meana, Miguel Á. Naranjo Olivero & Lucrecia Bourgon Baquedano. "Método de evaluación de la eficacia de genes de tolerancia a estrés abiótico en plantas transgénicas"

APPLICATION Nº P200602583

PRIORITY COUNTRY: Spain

PRIORITY DATE: 3/10/2006

PATENT HOLDER: Universidad Politécnica de Valencia

VI. PROFESSIONAL / MANAGEMENT ACTIVITIES AND OTHER MERITS

1. Scientific Assessment / Evaluation Activities

- Member of the panel of experts responsible for the scientific assessment of the EU Alβan Programme (High Level Scholarships for Latin America), in its five calls (2002 to 2006).

- Since 2002. Evaluation of scientific projects for the the Spanish 'National Evaluation and Foresight Agency' (ANEP) and, occasionally, for other Spanish and foreign granting agencies.

- 2012. Member of one of the panels of experts responsible for the evaluation of the National Research Institutes R & D system in Romania, within a programme organised by the NACA (National Authority for Scientific Research).

- Since 2016. Evaluator of research projects for the 'Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)', Romania.

- 2018/2019. Project evaluator, COST Actions (EU)
- Since 2016. External examiner of Master and PhD Thesis for several foreign universities (in South Africa, India, Australia, Pakistan)
- Scientific reviewer for several journals in the areas of "Plant Science" and "Ecology", including: *Frontiers in Plant Science* / *Acta Physiologiae Plantarum* / *Archives of Agronomy and Soil Science* / *Arid Land Research and Management* / *Ecological Engineering* / *Environmental and Experimental Botany* / *Functional Plant Biology* / *Journal of Biotechnology* / *Plant Biosystems* / *Plant and Soil* / *Plants* / *Protoplasm* / *Turkish Journal of Botany*, amongst others (*data from 2017 included in my profile in Web of Science (Publons): <https://www.webofscience.com/wos/author/record/408191>*)

2. Participation in Editorial Boards of scientific journals

- Associate Editor of *Frontiers in Plant Science*, Section 'Plant Abiotic Stress' (since 2015)
- Managing editor of *The EuroBiotech Journal* (EBTNA official journal)
- Member of the Editorial Boards (and reviewer) of the journals: *Notulae Botanicae Horti Agrobotanici* (since 2007), *Notulae Scientia Biologicae* (since 2009) and *Bulletin USAMV* (since 2013), published by AcademicPres, Cluj-Napoca, and *Plants (MDPI)*, Section 'Plant Response to Abiotic Stress and Climate Change' (since 2019)
- Since 2019: Editor-in-Chief of *Notulae Scientia Biologicae*

3. Membership in Scientific Societies

- Member of: Spanish Society for Biochemistry and Molecular Biology (SEBBM) / Spanish Society of Plant Physiology (SEFV) / Society for Experimental Biology (SEB)
- Honorary Member of the 'Transylvanian Society of Horticulture and Forestry'
- Member of the 'European Biotechnology Thematic Network Association' (EBTNA).
- Member of 'Red Iberoamericana de Investigación en Plantas Medicinales, Aromáticas y Condimenticias-REDIIMAC' (Ibero-American Research Network on Medicinal, Aromatic and Condimentary Plants).

4. International Representation

- 2004 - 2011: representative of the Polytechnic University of Valencia in the Teaching Committee of the Course 'Job Creation Oriented Biotechnology', International First Level Degree (three years) organised in Perugia (Italy) by a Consortium of eleven European universities. Reviewer of 'Stage Reports' and 'Degree Theses' of JCOB students.
- 2004 - 2011. representative and 'contact person' of the Polytechnic University of Valencia in the European Biotechnology Thematic Network, supported by the Erasmus Lifelong Learning Programme, EU projects BIOTECHUNTE (Agr. nº 110769-cp-2-2004-it-erasmus-tn, 2005-2007) and EUROBIOTECH (Agr. nº 134310-llp-1-2007-1-it-erasmus-enw, 2008-2010)
- Since 2012. Coordinator and representative of the European Biotechnology Thematic Network Association (EBTNA) in Spain
- Since 2014. Member of the Executive Committee, EBTNA
- 2018. General Secretary, EBTNA

- Since 2019. Vice-president of EBTNA

5. Awards and other merits

- Since 2006. Member of the Research Ethics Committee of the Polytechnic University of Valencia
- 2014. Polytechnic University of Valencia's Award for 'Research Activity'
- 2016. Medal '*Honoris et Gratitudeinis*' awarded by the University of Agricultural Sciences and Veterinary Medicine (USAMV), Cluj-Napoca (Romania).
- 2017. **Doctor Honoris Causa**, University of Agricultural Sciences and Veterinary Medicine (USAMV), Cluj-Napoca (Romania)
- 2022. Included in the 'Top 100 Plant Science and Agronomy scientists in Spain' (Research.com)