



**Diego Rubiales**, Professor at the Institute for Sustainable Agriculture, CSIC at Córdoba Spain. Former President of ILS and of AEP. Extensive experience in participation and coordination of international research on legumes. H index Scopus = 58. Co-author of a total of 373 major articles in journals with IF, together with over 145 book chapters and dissemination articles and over 550 congress presentations. Director of 31 successful PhDs. Currently Chief Editor of *Frontiers in Plant Science* section Plant Breeding, editor of *Agronomy for Sustainable Development*, of *Field Crops Research*, of *Agronomy*, of *Phytopatologia Mediterranea*, of *Legume Science* and of *Journal of Agricultural Science*. In addition to these research activities, direct implication in applied breeding, resulting in registration of 20 legume cultivars (faba bean, pea, chickpea, grasspea, lupin, etc).

With this application I offer to continue contributing to strengthen the society assisting the new committee and facilitating the tasks of the new president.



**Alfonso CLEMENTE** (Spain). Senior Researcher at CSIC.

Dear President of the International Legume Society (ILS),

I am delighted to present my candidacy to the ILS Scientific Committee for the next three years. Over the last 30 years, my scientific interest has been mainly focused on the nutritional and health beneficial effects of legume seeds in food and feed. I am currently member of the ILS Scientific Committee since 2016, President of the Spanish Legume Association in the period 2015-2021, and local organizer of the ILS4 conference held in September 2023 in Granada. I offer my extensive scientific experience, alongside organizational and networking skills, in order to add more visibility to the International Legume Society and, through participation in its Scientific Committee, to organize international activities and to strengthen relationships among growers, the scientific community and consumers. I would like to support the development of a strong scientific group focused on Health and Nutrition within ILS.

Granada, 11 September 2023



Jose C. Jimenez-Lopez

Academic profile:

BS Biochemistry and Molecular Biology (1998), BS Biological Sciences (2001), MS Agricultural Sciences (2004) by the University of Granada, Spain. PhD Plant Cell Biology in 2008 by Spanish National Research Council (CSIC).

Other experiences:

During my PhD Thesis, I have developed multiple research stays in USA (Purdue University), Germany (University of Bonn), Austria (Vienna Bio Center), and Spain.

2008-2011 Full-Time postdoctoral researcher (Plant Cell Biology) at Purdue University (IN, USA), College of Sciences.

2012-2015 EU Marie Curie Fellow (FP7-PEOPLE-2011-IOF), The University of Western Australia (2012-2014) and CSIC (2014 – 2015), working in legume seed proteins functionality.

2016-2021 Ramon y Cajal Senior researcher at CSIC awarded by Spanish Ministry of Economy, Industry and Innovation, working in Legume/PULSE (i.e. *Lupinus*, ...) and oleaginous (i.e. *Olea europaea*, ...) seed developmental physiology and proteins functionality.

2021 – present Tenured Scientist at CSIC, working in the physiological aspects of seed development and proteins functionality, health benefits (nutraceutical properties), and molecular food allergy of legume seed proteins.

Research focus:

Legume crop seeds functional and physiological aspects for agricultural production; molecular Nutraceuticals (health benefits) in relationship with inflammatory related diseases as diabetes, obesity and cancer, metabolic syndrome; and molecular food allergy of legume seed proteins related to other seeds and grains.

Leading nine research projects as PI and others as research team (total 17):

AgroGenDetec (AEI, EU Resilience); Intramural CSIC; LUPIN-CHALLENGE (EU Marie Curie FP7 research program); Spanish Ministry of Science *calls*; Carlos III institute research program; Health foundation from Andalusia research program; etc...

Scientific Societies:

Current President of the Spanish Legume Society (AEL); Member of the International Legume Society (ILS); Member of the International Lupin Association (ILA).

Publications:

Co-author of more than 80 Journal papers (ISI classes Q1 (mainly), Q2); 37 book chapter. h-index 23, h10-index 47 (Google Scholar, <https://scholar.google.com.au/citations?user=f1oRTY4AAAAJ&hl=en>).

Motivation:

Legume research is one of my passions, I would love to have the opportunity to dedicate my energy to keep supporting ILS for the advance of Legumes interdisciplinary research on seed developmental physiology and proteins functionality.



Paolo Annicchiarico

Education: MSc Univ. of Perugia, Italy; PhD Univ. of Aberystwyth, UK.

Position: Director of Research, Research Centre for Animal Production and Aquaculture of CREA, Lodi, Italy.

Other experiences: 2-year work at ICARDA (Syria); 1-year visiting scientist at the S.R. Noble Foundation (USA); contract professor, Univ. of Milan.

Leader of public breeding programs and breeder of registered varieties of alfalfa, white clover, pea, white lupin and faba bean.

Research focus: genomic selection, evolutionary and farmer-participatory breeding, abiotic stress tolerance, genetic resources, and plant adaptation analysis, of perennial forage and grain legume species.

Project leader (REFORMA; GENLEG) or WP, task or crop leader in several projects (BELIS; DIVERSILIENCE; INVITE; LIVESEED; REMIX; LEGATO; PERMED; COBRA).

Current President of ILS and ExCom member of ILA (Int. Lupin Association).

Publications: 2 books and 132 papers on major journals (ISI classes Q1, Q2); h-index 42 (ResearchGate).

Motivations: in the role of Past-President, keep supporting ILS as the main forum for integrated, interdisciplinary research on grain and forage legumes.



Stefano Pavan

Date of birth: 09/01/1978

Education: MSc in Biotechnology, Univ. of Wageningen, NL; MSc in Agricultural Science, Univ. of Bari (IT); PhD in Plant Breeding, Univ. of Wageningen (NL); PhD in Plant Breeding and Pathology, Univ. of Bari (IT).

Position: Associate Professor in Agricultural Genetics, University of Bari, Bari (IT).

Other positions: Honorary Professor and Member of the International Consultive Board for Scientific Research, Henan Academy of Agricultural Sciences (HAAS), Zhenzhou (China).

Research focus: legumes (pea, peanut, lentil, chickpea), biodiversity, evolution, marker-trait association, plant-pathogen interaction, breeding.

Research Unit, WP, or task leader in projects focusing on legumes (LEGERETE, LENTIGO, SAVEGRAIN-LEG).

Member of ILS since 2013.

Publications: 56 (Scopus); h-index: 24 (Scopus); average IF: 4.35.

Motivation: contribute to shape future ILS activities promoting cutting-edge research, fostering collaboration, and disseminating knowledge.

## **Nelson Nazzicari**



Education: MSc and Phd University of Pavia, Italy.

Position: Senior scientist, Research Centre for Animal Production and Aquaculture of CREA, Lodi, Italy.

Other experiences: 2-year post doc at CSIS (Faifax, USA); visiting scientist at Centre of Excellence for Biodiversity and Molecular Plant Breeding based in Zagreb, Croatia; contract professor, University of Pavia; teacher at Physalia school of specialization; webmaster and social media manager for the International Legume Society.

Research focus: genomic selection, bioinformatics, nonlinear models, deep learning.

Project leader (POLYPLOIDBREEDING 4.0; LEGPIPE; CREA-Grana Padano consortium agreement)

Collaboration in several projects (BELIS; LEGATO; REFORMA, FRUITBREEDOMICS, COBRA, RGV-FAO).

Publications: 10+ book chapters, 40+ papers on major journals (ISI classes Q1, Q2); h-index 18 (ResearchGate)

### **Motivational statement**

I have been involved directly with ILS since October 2019, when I set up and started managing the society's official website, <https://www.legumesociety.org/>. Through the years, my involvement with the society grew. I developed and released the archive of members and projects (available on the website), and I've started to manage the society's Twitter account and its mailing list. Moreover, I have been hosting and coordinating the first season of the ILS webinars, which are publicly available on the website and on YouTube.

My own research focuses for the vast majority on legumes, leveraging my bioinformatics skills on highly technical topics like Next Generation sequencing, genomic selection, and deep learning. As such, I align perfectly with the society's mission.

For these reasons, I'm asking to become part of the ILS Scientific Committee, so that I can improve and grow my contribution to the society.

### **Professional Experience & Employment**

**1994-Present:** Head of Ecological Food Systems, James Hutton Institute, Scotland UK.

**2023-Present:** Senior Scientist, CBFQ, Universidade Católica Portuguesa, Porto.



**Justification:** I have over 34 years of experience in legume research and innovation spanning different scientific disciplines and a variety of legume-based value chains. My initial experience in legume physiology and ecology has evolved to include a strong focus on whole system analysis. Most recently, this has included the development of novel

legume-based products, plus platforms and tools integrating ecosystem service assessment into LCA (life cycle analysis), and models for land use risk assessment - of legume-system adoption. I hope my agroecological perspectives will add diversity to the Scientific Committee and help strengthen the membership and impact of the International Legume Society.



# Lars Gian Kamphuis

E-mail: [lars.kamphuis@curtin.edu.au](mailto:lars.kamphuis@curtin.edu.au)

Web: <https://www.ccdm.com.au/people/lars-kamphuis/>

ORCID ID: 0000-0002-9042-0513 ScopusID: 12242414400 ResearcherID: B-5360-2011

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## Research Focus

My career in research and research management has focused on oilseed and pulse genomics and pathology. My current legume research focusses on improving disease resistance of chickpea, lentils and lupins to Ascochyta blight, Botrytis grey mould and Sclerotinia stem rot, as well as developing genomic resources for these pulse crops.

## Education

- PhD in Plant Molecular Biology, Australian Centre for Necrotrophic Fungal Pathogens (ACNFP), Murdoch University, Australia.
- MSc and BSc in Plant Breeding and Crop Protection, Wageningen University, The Netherlands.

## Current Postion

- Theme leader oilseed and pulse diseases, Centre for Crop and Disease Management, Curtin University, Australia.

## Legume Research Experience

- 15-years of research at CSIRO, Australia working on plant-insect interactions in the model legume *Medicago truncatula* and developing genetic and genomic resources for narrow-leafed lupin (*Lupinus angustifolius*)
- 7 years of research at Curtin University working on pulse pathology, genetics and genomics in chickpeas, lentils and lupins.
- Publication of 57 peer-reviewed ISI publications since 2006 (*h*-index 24; 1899 career citations), seven book chapters and one edited book.
- Guest editor of Legume Perspectives Issue 22 – An update on lupin crops and their potential

## Conference Organisation and Profesional Services

- Scientific and Organising committee member of 5 oilseed and pulse conferences
- Scientific Advisory Board member for A) the WA Genome Atlas and B) Genomics WA.

## Motivation to join to ILS Scientific Committee

As an active member of the legume research community, I would like to join the committee as there currently isnt any representation on the committee from Australia. I would like to assist with the conference organisation of future editions of ILS and hopefully bring this international conference to Australia in future years.



# APPLICATION TO SERVE IN THE SCIENTIFIC COMMITTEE OF INTERNATIONAL LEGUME SOCIETY



## 1- Mini-CV

**Marion PRUDENT**

40 years-old  
Married, 2 children



I am an INRAe researcher (with HDR, accreditation to supervise research) working at UMR Agroécologie, Dijon, France. I am an **ecophysiologicalist, expert in multidisciplinary approaches** including genetics and "omics".

I obtained my PhD in 2009, in the field of genetics and ecophysiology of tomato fruit quality. After a post-doc at McGill University, Canada (2010-2011), I have led projects devoted to **valorize legume plants and soil microbe interactions for enhanced plant mineral acquisition** under drought conditions in tight collaboration with microbiologists, physiologists and biochemists.

★**PRODUCTION:** I authored or co-authored 27 publications in peer-reviewed journals (ORCID: 0000-0003-4696-2558), 79 communications to congress or to development actors.

★**SUPERVISION:** I have supervised 3 PhD students, and 10 Master 2 students.

★**RESEARCH MANAGEMENT:** Since 2019, I am the head of the **ECOphysiology of grain LEGumes** (EcoLeg) team (≈15 people) of UMR Agroécologie, and since 2023 I co-lead the **4PMI high-throughput phenotyping platform**.

★**PROJECTS' MANAGEMENT:** I have coordinated 10 national collaborative projects including OPTILEG (submitted to ANR-France2030), on-going Plant2Pro ARECOVER (2020-2023), SYALSA QUAMISOL (2023-2024), Roullier-BLACKBOX (2020-2024), INRAE-RESIST (2022-2023), four of which in collaboration with private partners. I have been involved as work package leader in two international projects: Eranet-MediLeg (2012-2016) and MSCA-ROOTED (2023-2026), and two national projects: FUI-Eauptic (2018-2022) and Plant2Pro-EcoDiv (2021-2024). I have also been responsible for tasks in other international projects such as FP7-Abstress (2012-2016) and FP7-Legato (2014-2017), and participated in other international and national projects such as H2020-EUCLEG (2017-2021) and France2030-LETSPROSEED (2023-2028), the joint linkage call RhizoExchange INRAe-NARO (Japan).

★**COMMITMENTS AS AN EXPERT:** I am an elected member of the Scientific Committee of INRAE Agroecosystem division, and of the National Commission for Teacher-Researchers under the Ministry of Agriculture (CNECA) 'Crop Production' section. I have experience working at the interface between public research and breeding companies as I am a nominated expert for the French variety registration office (CTPS). I am a reviewer for several plant science journals: Journal of Experimental Botany, Plant and Soil, *Physiologia Plantarum*, New Phytologist...

## 2- Motivation statement

Dear colleagues Grain Legume- & Forage Legume- enthusiasts,

Taking a particular interest in studying the resilience of leguminous plants to abiotic stresses and the study of plant-microorganism interactions, I would like to apply to join the ILS Scientific Committee. In addition to contributing my expertise in ecophysiology and integrative biology (multi-disciplinary and multi-scale), I will be keen to represent these two themes (legume resilience and plant x micro-organism interactions), and to support research carried out at the crossroads of several disciplines, as I am convinced that this is one of the main strengths of our community. In addition, I would like to continue the remarkable work that has gone into the publication of the magazine "Legume Perspectives" by regularly submitting articles and by mobilizing colleagues from research and the private sector to maintain the publication dynamic.

Enjoy the conference!

Marion



**Prof. Petr Smýkal, Ph.D.** (\*1969)

[ORCID 0000-0002-6117-8510](https://orcid.org/0000-0002-6117-8510)

Department of Botany, Faculty of Sciences, Palacky University in Olomouc  
Slechtitelu 27, 77901 OLOMOUC, Czech Republic

<https://www.prf.upol.cz/bot> , E-mail: [petr.smykal@upol.cz](mailto:petr.smykal@upol.cz), Tel. +420 585 634 827

Studied plant biotechnology at the University of Agriculture and the Faculty of Natural Sciences of Charles University in Prague (1994) and completed doctoral studies at the Faculty of Natural Sciences of Charles University in Prague (1999) on plant physiology and mol. biology. Being a full professor at the Department of Botany, Faculty of Sciences, Palacky University, Czechia since 2011.

**Interested in the domestication and genetic diversity of leguminous crops.** Using the wild pea (and to a lesser extent also lentil and chickpea) model, to clarify the genetic basis of two main domestication traits: removal of seed dormancy and pod dehiscence. The study of **seed dormancy**, in case of legumes governed by seed coat permeability, and **pod dehiscence**, two key domestication traits. Integrative work on transcriptomics and metabolomics led to the identification of phenylpropanoid pathway and polyphenol oxidase gene involved in phenolics oxidation and polymerization.

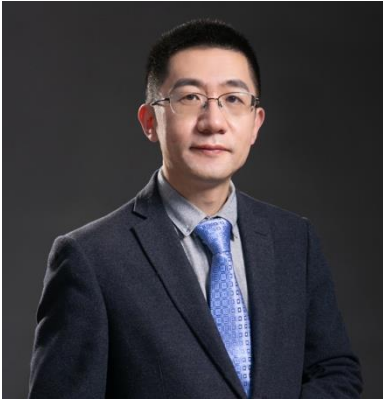
In order to understand the relationship between the dormancy release and environmental clues, we use *Medicago truncatula*, *Vicia cracca* and wild pea *P. elatius* models, and a combination of seed testing, genomics and geoinformatics. The **wild progenitors of cultivated peas, lentil and chickpea** are also used to expand the genetic diversity of cultivated crops.

At the Faculty of Sciences, UP, he lectures on the following subjects: Plant variability and evolution, Conservation genetics, Cultivated plants, Ecology and applied plant biotechnology, Molecular markers in plant breeding, and Plant breeding and supervises students of bachelor's, master's and doctoral studies. He works as an editor and member of the editorial boards of a number of scientific journals: Front. Plant Sciences, Front. Genetics, BMC Plant Biology, J. Applied Genetics, Legumes Science and others.

He has published 119 original scientific works (h index 29) of which 84 are publications in international scientific journals with impact factor (including Nature, New Phytologist, Annals of Botany etc.), and 10 book chapters.

#### **Motivation to become ILS Scientific Committee member:**

My 20-year-long scientific career most of the time with various aspects of grain legumes biology, along with my collaborative leadership skills and ability, will enable me to contribute to the further success of ILS, which I have been a founding member. My current experience as Professor in the Plant Biology Group in the Department of Botany, Palacky University, Czech Republic, translates well to the requirements. I have been always inspired by the international and multidisciplinary environment of the Legume Society and I believe my collaborative nature, international experience, interdisciplinary skills, and interest in plant developmental biology make me a well-suited candidate. To demonstrate the scope of my career history I attach my curriculum vitae and my short research programme.



Pei Xu

Education: MSc Nanjing Agri. Univ, China; PhD Nanjing Agri. Univ, China.

Position: Professor & Dean, College of Life Sciences, China Jiliang University, Hangzhou, China; Director, Key Lab of Specialty Agri-Product Quality and Hazard Controlling Technology of Zhejiang Province, China.

Other experiences: 1-year work in total at UC-Riverside (USA); 2 months visiting at Hebrew Univ. Jerusalem (Israel); Two times of short visit at ICRISAT (India).

Research focus: genome sequencing, genetic mapping, phenomics, functional genomics, drought tolerance, safety traits.

Leader of many public research and breeding programs on cowpea and common bean, including project leader in 4 grants from the National Science Foundation of China and 2 China-Israel joint grants.

Current Vice Chair of the Chinese Society of Horticulture – Vegetable Legume Section.

Current Executive Board Member of the Chinese Society of Horticulture – Youth Section.

Publications: 3 books and 50+ papers as corresponding author or first author in major journals, many published in prestigious journals such as Plant Physiology, Plant Journal, Plant Biotechnology Journal, Journal of Experimental Botany, etc.

Current editor of the journals Plant Breeding (Wiley), Biochemical Genetics (SpringerNature), Legume Research (ARCC), Vegetable Research (MAXIMUM).

Motivations: in the role of Member of ISL. Sci. Com, supporting ILS as the main forum for connections between Chinese legume researchers and the international colleagues.



My name is Maria Carlota Vaz Patto and I am a Principal Investigator at Instituto de Tecnologia Química e Biológica (ITQB NOVA) where I am also the Coordinator of the ITQB NOVA Plant Sciences Division and Head of the PlantX Lab (<http://www.itqb.unl.pt/labs/plantx>, ORCID ID: 0000-0002-8469-7508).

My research focus on the genetic and genomic basis of plant complex traits, using different statistical genetic and genomic approaches. Currently my lab is working on nutritional/health beneficial and organoleptic plant quality traits, and resistance to biotic (fungal diseases and pests) and abiotic stresses (drought and flood) on legumes (mainly common bean and grass pea). I am presently the Editor-in-Chief of Legume Perspectives, the journal of the International Legume Society. I have been actively contributing for more than 20 years to the legume community through research and dissemination mainly on the area of plant quantitative genetics applied to breeding, serving as a member of the previous ILS Scientific Commission and as ILS Vice President. With this application, I intend to keep contributing to the International legume Society by strengthen international cooperation on legume research and dissemination, seeking the active engagement of young researchers and end-users (industry/farmers/consumers) and exploiting the potential of underused legume germplasm.



Thomas (Tom) Warkentin

Education: MSc Univ. of Manitoba, Canada; PhD Univ. of Saskatchewan, Canada.

Position: Professor, Crop Development Centre/Department of Plant Sciences, University of Saskatchewan, Saskatoon, Canada (1999-present).

Pea and soybean breeder in the Crop Development Centre with many varieties registered and in production.

Research focus: improving disease resistance, agronomic performance, and end-use quality using conventional and genomic approaches.

Currently co-PI of a multi-disciplinary project 'Pea Protein Omic Determination (P-POD)' supported by the Saskatchewan Ministry of Agriculture.

Currently Executive Committee member of ILS.

h-index 60 (Google Scholar).

Other experiences: Research Scientist, Agriculture and Agri-Food Canada, Morden, Manitoba, Canada on pulse crop breeding (1992-1999).

Motivations: as a member of the ILS Scientific Committee, to serve the international legume research community seeking the input of diverse experts in academia, industry, and government.



**Kevin McPHEE, USA**

Professor at Montana State University, Bozeman, MT, USA. Previously held Research Geneticist position with the USDA-ARS in Pullman, WA, USA and a professorship at North Dakota State University, Fargo, ND, USA.

Recently served as past president of the International Legume Society and previous president of the North American Pulse Improvement Association. Co-authored 95 peer-reviewed publications and 13 book chapters. Presented more than 120 scholarly presentations at various meetings internationally. Currently associate editor for the Crop Science and editor of Pisum Genetics. Presently overseeing an aggressive breeding program on pea, lentil and chickpea improvement. Contributed to the release of 19 pea, lentil, or chickpea cultivars.

Motivation: I would like to express my interest in continuing to support the activities of the International Legume Society and the scientific committee in any way possible.



Ganga Rao Nadigatla

**Education:** MSc (Ag) Andhra Pradesh Agricultural University, India; PhD Indian Agricultural Research Institute, India.

**Present Position:** Pigeonpea & Chickpea Breeder and Product Development Breeder for Dryland cereals and grain legumes, CIMMYT, Kenya

**Past experiences:** > 25 years of impactful crop breeding and technology delivery experience in both Africa and Asia. Out of which 15-year work experience at ICRISAT (Kenya); 10 years' experience at Indian Council of Agricultural Research as wheat, castor bean and sunflower breeder.

Registered 3 wheat varieties and 7 wheat genetic stocks, 17 chickpea and 12 pigeonpea varieties

**Research focus:** Cultivar development, pre-breeding, genetic resources collection, evaluation and use, on-farm testing, sustainable seed systems and varietal promotion  
Implemented 23 donor funded research and technology dissemination projects.

**Awards:** 6 outstanding partnership awards and one team award is a testimony to dedication, partnership, and leadership skills.

**Publications:** 7 book chapters and 71 papers on major journals h-index 17 (Google Scholar). Several other forms of publications.

Motivations: Acting as editor for some journals and conference organizing events.