

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Surname / First name	<b>Vojta / Lea</b>
Address	Bijenička cesta 54, 10000 Zagreb, Croatia
Telephone	+385-1-4680238
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E-mail, Web address	ivojta@irb.hr
Nationality	Croatian
Date of birth	March 11 <sup>th</sup> 1979

**WORK EXPERIENCE**

Dates (from – to)	10/2019- present
Name and address of employer	Institute “Ruđer Bošković” Division of Molecular Biology, Laboratory for Plant Molecular Biology and Biotechnology Bijenička 54, 10 000 Zagreb, Croatia
Type of business or sector	Fundamental Research
Occupation or position held	Senior Research associate
Main activities and responsibilities	Plant cell and molecular biology, regulation of photosynthesis
Dates (from – to)	11/2011- 10/2019
Name and address of employer	Institute “Ruđer Bošković” Division of Molecular Biology, Laboratory for Plant Molecular Biology and Biotechnology Bijenička 54, 10 000 Zagreb, Croatia
Type of business or sector	Fundamental Research
Occupation or position held	Research associate
Main activities and responsibilities	Plant cell and molecular biology, regulation of photosynthesis
Dates (from – to)	11/2010- 10/2011
Name and address of employer	Institute “Ruđer Bošković” Division of Molecular Biology, Laboratory for Electron Microscopy Bijenička 54, 10 000 Zagreb, Croatia
Type of business or sector	Fundamental Research
Occupation or position held	Postdoc position, higher assistant
Main activities and responsibilities	Plant cell and molecular biology, regulation of photosynthesis
Dates (from – to)	07/2007-10/2010
Name and address of employer	University of Zagreb Faculty of Veterinary Medicine Department of Parasitology and Parasitic Diseases with Clinic, Prof. Dr. Albert Marinculić Heinzelova 55, 10 000 Zagreb, Croatia
Type of business or sector	Fundamental Research
Occupation or position held	Postdoc position, higher assistant
Main activities and responsibilities	Trichinellosis, Leishmaniasis, Babesiosis, Hepatozoonosis – molecular approach Teaching “Parasitology” at the Department of Biology, Faculty of Science, University of Zagreb
Dates (from – to)	11/2002-12/2006
Name and address of employer	Ludwig-Maximilians University Munich, Germany, Department Biology I, Botany, Prof. Dr. Juergen Soll Menzingerstr. 67, 80638 Munich, Germany

Type of business or sector	Fundamental Research
Occupation or position held	PhD student
Main activities and responsibilities	Protein import into chloroplasts

## EDUCATION

Date	2002-2006
Place of education	Munich, Germany
Name and type of organisation providing education	Ludwig-Maximilian University Munich, Germany
Title or qualification awarded	PhD in Natural Sciences (Field of cell biology and plant biochemistry)

Date	1997-2002
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Molecular Biology at the Department of Biology, Faculty of Science, University of Zagreb
Title or qualification awarded	Diploma (roughly equivalent to M.Sc. in USA) – Diplomaed engineer of biology – molecular biology

Date	1993-1997
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Gymnasium for Mathematics and Natural Sciences (V. Gymnasium)
Title or qualification awarded	Final secondary-school examination

## TRAININGS/COOPERATIONS

Date	August 16 <sup>th</sup> - 20 <sup>th</sup> 2021
Place of training	Online
Name and type of organisation providing training	German Federal Institute of Risk Assessment
Type of training	9th BfR Summer Academy 2021

Date	June 10 <sup>th</sup> 2021
Place of training	Online
Name and type of organisation providing training	COST Action PlantEd
Type of training	Webinar: Understanding the potential contributions of genome editing to sustainable agriculture.

Date	June 8 <sup>th</sup> and 9 <sup>th</sup> 2021
Place of training	Online
Name and type of organisation providing training	The Department of State and the United States Department of Agriculture's Foreign Agricultural Service at the U.S.Embassy in Rome
Type of training	Workshop: "Innovative Biotechnologies and Regulatory Approaches."

Date	January 2 <sup>nd</sup> and 9 <sup>th</sup> 2021
Place of training	Online
Name and type of organisation providing training	School of Molecular Sciences Arizona State University, USA
Type of training	30 <sup>th</sup> Annual Western Photosynthesis Conference

Date	May 15 <sup>th</sup> 2018
Place of training	Zagreb, Croatia
Name and type of organisation providing training	Macherey-Nagel/Gorea Plus d.o.o., Zagreb, Croatia
Type of training	Seminar "RNA isolation – old challenges, newest solutions"
Date	April 24 <sup>th</sup> 2018
Place of training	Zagreb, Croatia
Name and type of organisation providing training	GeneTeam/Promega, Zagreb, Croatia
Type of training	Seminar "Innovative Applications of Cell-Based Luciferase Reporter Assays"
Date	March 6 <sup>th</sup> 2018
Place of training	Osijek, Croatia
Name and type of organisation providing training	Agricultural Institute Osijek, Osijek
Type of training	Seminar and Workshop "Wheat breeding and genetics-Food safety"
Date	February 6 <sup>th</sup> – 7 <sup>th</sup> 2018
Place of training	Zagreb, Croatia
Name and type of organisation providing training	"Ruđer Bošković" Institute, Zagreb, Croatia
Type of training	Workshop "Commercialization of RDI results for young researchers" Training programme on commercialisation of RDI results: Collaborating and Competing on the European Stage: Capture, communicate and valorise your research, PhD Students and young researchers Workshop
Date	June 1 <sup>st</sup> – 3 <sup>rd</sup> 2015
Place of training	Zagreb, Croatia
Name and type of organisation providing training	"Ruđer Bošković" Institute, Zagreb, Croatia
Type of training	InnoMol Molecular Interactions Workshop
Date	October 20 <sup>th</sup> – 22 <sup>nd</sup> 2014
Place of training	Zagreb, Croatia
Name and type of organisation providing training	"Ruđer Bošković" Institute, Zagreb, Croatia
Type of training	InnoMol Bioimaging Workshop
Date	April 7 <sup>th</sup> – 9 <sup>th</sup> 2013
Place of training	Zagreb, Croatia
Name and type of organisation providing training	"Ruđer Bošković" Institute, Zagreb, Croatia
Type of training	InnoMol Proteomics Workshop
Date	July 2 <sup>nd</sup> – 3 <sup>rd</sup> 2013
Place of training	Zagreb, Croatia
Name and type of organisation providing training	University of Applied Health Studies, Zagreb
Type of training	Education and Training in Basic Radiation Safety for Radiation Workers: Implementation of measures for protection against ionizing radiation in radioisotope laboratories and scientific research activities
Date	November 18 <sup>th</sup> – December 9 <sup>th</sup> 2012
Place of training	Kiel, Germany
Name and type of organisation providing training	Christian-Albrechts-Universität zu Kiel, Botanical Institute, Prof. Dr. sc. Karin Krupinska

Type of training	Cooperation on the Croatian-German bilateral project "Control of plant growth and senescence by energetic status of chloroplasts"
Date	March 8 <sup>th</sup> 2012
Place of training	Zagreb, Croatia
Name and type of organisation providing training	EU IPA SIIF project "Development of innovation system at IRB and University of Rijeka; dr. sc. Lisa Cowey, MBA
Type of training	Innovation and Entrepreneurship Workshop
Date	October 7 <sup>th</sup> 2011
Place of training	"Ruđer Bošković" Institute, Zagreb, Croatia
Name and type of organisation providing training	Regional Competitiveness Operational Programme 2007-2009 for Community Assistance under the IPA Regional Development Component in Croatia
Type of training	Basic Intellectual Property Workshop
Date	August 31 <sup>st</sup> – September 3 <sup>rd</sup> 2011
Place of training	Primošten, Croatia
Name and type of organisation providing training	FEBS
Type of training	Workshop: "Plant Organellar Signalling"
Date	June 14 <sup>th</sup> -17 <sup>th</sup> 2011
Place of training	"Ruđer Bošković" Institute, Zagreb, Croatia
Name and type of organisation providing training	COST (European <b>CO</b> operation in the field of <b>Scientific and Technical Research</b> )
Type of training	Workshop: "Free Radicals in Chemical Biology"
Date	May 11 <sup>th</sup> 2011
Place of training	"Ruđer Bošković" Institute, Zagreb, Croatia
Name and type of organisation providing training	Dr. Sean McCarthy, Hyperion Ltd.
Type of training	Workshop: "How to write a competitive proposal for framework 7"
Date	March 2008
Place of training	Ljubljana, Slovenia
Name and type of organisation providing training	Institute for Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Ljubljana
Type of training	Cooperation on the trichinellosis project – molecular biology of Trichinella
Date	February 12 <sup>th</sup> -13 <sup>th</sup> 2008
Place of training	Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia
Name and type of organisation providing training	Medora Global Consultants, LCC and Medora d.o.o.
Type of training	Workshop "All you need to know on FP7"
Date	January 7 <sup>th</sup> -10 <sup>th</sup> 2008
Place of training	University of Manchester, Manchester, UK
Name and type of organisation providing training	COST Action B24 (European <b>CO</b> operation in the field of <b>Scientific and Technical Research</b> - 'Laboratory Animal Science and Welfare')
Type of training	Workshop: "Experimental Design and Statistical Analysis of Biomedical Experiments"
Date	October 2007
Place of training	"Ruđer Bošković" Institute, Zagreb, Croatia
Name and type of organisation providing training	SIGMA
Type of training	Seminar: "DNA/RNA Purification/ Oligo Synthesis/ RNAi"

Date	September 22 <sup>nd</sup> -23 <sup>rd</sup> 2007
Place of training	Zagreb, Croatia
Name and type of organisation providing training	Faculty of Veterinary Medicine, University of Zagreb
Type of training	Workshop "Trichinella Diagnostics and Control"
Date	July 2007
Place of training	Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Zagreb, Croatia
Name and type of organisation providing training	Ministry of Science, Education and Sports of the Republic of Croatia
Type of training	Seminar: "Application and management of EU projects"

#### PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian		
Other language(s)			
Language	English	German	French
Speaking	Proficient user	Proficient user	Basic level
Writing	Proficient user	Proficient user	Basic level
Understanding (listening and reading)	Proficient user	Proficient user	Intermediate level

#### HONOURS, SCHOLARSHIPS, PRIZES

2016 - Award of the Institute Ruđer Bošković for the best scientific paper in 2015 for the paper: Vojta et al. (2015) TROL-FNR interaction reveals alternative pathways of electron partitioning in photosynthesis. Scientific reports. 5:10085.

2000 - University of Zagreb Rector's Award for my thesis "Chloroplast isomerase TLP40 gene homologue *sll0408* has the important role in cyanobacterium *Synechocystis* PCC6803 biogenesis" (Performed at the Rudjer Boskovic Institute, Zagreb from 1999-2000, under the supervision of Prof. Dr. Nikola Ljubescic and Dr. Hrvoje Fulgosi).

1998-2002 - Republic of Croatia Undergraduate Scholarship on the basis of my grades. The scholarship was awarded to me for the whole period of my studying.

#### SOCIAL SKILLS AND COMPETENCIES

Responsible, persistent, helpful, fast learner, independent, as well as team worker

#### ORGANISATIONAL SKILLS AND COMPETENCIES

Ready to take initiative, team work organization, creative, competent in recognizing and solving problems

- One of the organizers of the XII International Conference on Trichinellosis, September 25th-30th 2007 at Plitvice Lakes, Croatia
- During 2008 and 2009, with two of my colleagues, I initiated a funding of the Laboratory for molecular biology and molecular diagnostics at the Faculty of Veterinary Medicine, as well as the Laboratory for protein biochemistry at the Department of Parasitology and Parasitic Diseases with Clinic. I was engaged in purchasing the necessary funding and acquisition of valuable equipment for mentioned laboratories
- Organized and performed the teaching for the collegium "Parasitology" (including lectures, practicum and seminars) at the Department of Biology, Faculty of Science, University of Zagreb
- Reviewer for the Journal of Vector-Borne and Zoonotic Diseases, Parasites & Vectors,

Acta Botanica Croatica, BioMed Research International, Food Technology and Biotechnology, International Journal of Molecular Sciences, Scientific Reports, Iranian Journal of Applied Animal Science, MDPI Plants, Molecular Biology Reports

- Reviewer for the scientific projects at the University of Osijek UNIOS - ZUP 2018
- Secretary of the Croatian Society of Plant Biology (2013-2015)
- One of the organizers of the COST CA15133 Meeting, June 11th-14th 2018 in Zagreb, Croatia

#### TECHNICAL SKILLS AND COMPETENCIES

Molecular biology and biochemical methods – molecular cloning, plant cell and tissue culture, generation of transgenic bacterial and plant organisms, protein over-expression and purification (chromatography), DNA- and protein-electrophoresis, *in vitro* transcription and translation, protein import into chloroplasts, protein targeting and sorting techniques, electron microscopy

#### ARTISTIC SKILLS AND COMPETENCIES

Piano playing, painting, writing

#### OTHER SKILLS AND COMPETENCIES

Computers: advanced usage of various application software, data representation and data analysis skills

### RELEVANT PUBLICATIONS

#### BOOKS

**Vojta, Lea.** Protein Import into Chloroplasts: From cytosolic translation to the final destination. Saarbrücken : LAP LAMBERT Academic Publishing, 2012 (monography).

#### BOOK CHAPTERS

**Vojta, Lea;** Čuletić, Andrea; Fulgosi, Hrvoje. Effects of TROL Presequence Mutagenesis on Its Import and Dual Localization in Chloroplasts // Chloroplast / Sabater, Bartolome (Ed.). Basel : MDPI, 2018. Pg. 365-377.

Jurić, Snježana; **Vojta, Lea;** Fulgosi, Hrvoje. Electron transfer routes in oxygenic photosynthesis : regulatory mechanisms and new perspectives // Photosynthesis / Dubinsky, Zvy (Ed.). Rijeka : InTech, 2013. Pg. 23-46.

**Vojta, Lea;** Fulgosi, Hrvoje. Energy conductance from thylakoid complexes to stromal reducing equivalents // Advances in Photosynthesis - Fundamental Aspects / Najafpour, Mahdi Mohammad (Ed.). Rijeka : InTech, 2012. Pg. 175-190.

#### RESEARCH ARTICLES

Kekić, Tadija; Fulgosi, Hrvoje; **Vojta, Lea;** Bertoša, Branimir. Molecular basis of ferredoxin:NADP(+) reductase interactions with FNR binding domains from TROL and Tic62 proteins // Journal of molecular structure, 1215 (2020), 128281, 12

Fulgosi, Hrvoje; **Vojta, Lea.** Tweaking Photosynthesis: FNR-TROL Interaction as Potential Target for Crop Fortification // Frontiers in plant science, 11 (2020), 318, 4

**Vojta, Lea;** Tomašić Paić, Ana; Horvat, Lucija; Rac, Anja; Lepeduš, Hrvoje; Fulgosi, Hrvoje. Complex lumenal immunophilin AtCYP38 influences thylakoid remodelling in Arabidopsis thaliana // Journal of plant physiology, 243 (2019), 153048, 5

**Vojta, Lea;** Fulgosi, Hrvoje. Topology of TROL protein in thylakoid membranes of Arabidopsis thaliana. // Physiologia plantarum. 166 (2019) , 1, Special Issue: Photosynthesis; 300-308

Hsueh, Yi-Ching; Nicolaisen, Kerstin; Gross, Lucia E.; Nöthen, Joachim; Schauer, Nicolas; **Vojta, Lea;** Ertel, Franziska; Koch, Ina; Ladig, Roman; Fulgosi, Hrvoje; Fernie, Alisdair R.; Schleiff, Enrico.

The outer membrane Omp85-like protein P39 influences metabolic homeostasis in mature *Arabidopsis thaliana*. // Plant biology. 20 (2018), 5; 825-833

**Vojta, Lea**; Čuletić, Andrea; Fulgosi, Hrvoje.

Effects of TROL Presequence Mutagenesis on Its Import and Dual Localization in Chloroplasts. // International journal of molecular sciences. 19 (2018) , 2; 569, 13

Huber, Doroteja; Reil, Irena; Duvnjak, Sanja; Jurković, Daria; Lukačević, Damir; Pilat, Miroslav; Beck, Ana; Mihaljević, Željko; **Vojta, Lea**; Polkinghorne, Adam; Beck, Relja.

Molecular detection of *Anaplasma platys*, *Anaplasma phagocytophilum* and *Wolbachia* sp. but not *Ehrlichia canis* in Croatian dogs. // Parasitology research. 116 (2017) , 11; 3019-3026

**Vojta, Lea**; Fulgosi, Hrvoje.

Data supporting the absence of FNR dynamic photosynthetic membrane recruitment in *trol* mutants. // Data in Brief. 7 (2016) ; 393-396

**Vojta, Lea**; Ljuma-Skupnjak, Lana; Budimir, Ankica; Vukičević, Slobodan; Fulgosi, Hrvoje.

Rapid transient expression of human granulocyte-macrophage colony-stimulating factor in two industrial cultivars of tobacco (*Nicotiana tabacum* L.) by agroinfiltration. // Biotechnology reports. 7 (2015) ; 81-86

**Vojta, Lea**; Carić, Dejana; Cesar, Vera; Antunović Dunić, Jasenka; Lepeduš, Hrvoje; Kveder, Marina; Fulgosi, Hrvoje. TROL-FNR interaction reveals alternative pathways of electron partitioning in photosynthesis. // Scientific reports. 5: 10085. (2015)

Lipej, Zoran; Novosel, Dinko; **Vojta, Lea**; Roić, Besi; Šimpraga, Miljenko; Vojta, Aleksandar.

Detection and characterisation of hepatitis E virus in naturally infected swine in Croatia. // Acta veterinaria Hungarica. 61 (2013) , 4; 517-528

**Vojta, Lea**; Horvat, Lucija; Fulgosi, Hrvoje.

Balancing chloroplast redox status – regulation of FNR binding and release. // Periodicum biologorum. 114 (2012) , 1; 25-31

**Vojta, Lea**; Mrljak, Vladimir; Beck, Relja.

Haematological and biochemical parameters of canine hepatozoonosis in Croatia. // VETERINARSKI ARHIV. 82 (2012) , 4; 359-370

Beck, Relja; **Vojta, Lea**; Ćurković, Snježana; Mrljak, Vladimir; Margaletić, Josip; Habrun, Boris.

Molecular survey of *Babesia microti* in wild rodents in central Croatia. // Vector-borne and zoonotic diseases. 11 (2011) , 1; 81-83

Deždek, Danko; **Vojta, Lea**; Ćurković, Snježana; Lipej, Zoran; Mihaljević, Željko; Cvetnić, Željko; Beck, Relja.

Molecular detection of *Theileria annae* and *Hepatozoon canis* in foxes (*Vulpes vulpes*) in Croatia. // Veterinary parasitology. 172 (2010) ; 333-336

Beck, Relja; **Vojta, Lea**; Mrljak, Vladimir; Marinculić, Albert; Beck, Ana; Živičnjak, Tatjana; Caccio, Mario Simone.

Diversity of *Babesia* and *Theileria* species in symptomatic and asymptomatic dogs in Croatia. // International Journal for Parasitology. 39 (2009) , 7; 843-848

Jurić, Snježana; Hazler-Pilepić, Kroata; Ana Tomašić, Ana; Lepeduš, Hrvoje; Jeličić, Branka; Puthiyaveetil, Sujith; Bionda, Tihana; **Vojta, Lea**; Allen, John F.; Schleiff, Enrico; Fulgosi, Hrvoje.

Tethering of ferredoxin : NADP<sup>+</sup> oxidoreductase to thylakoid membranes is mediated by novel chloroplast protein TROL. // Plant journal. 60 (2009) , 5; 783-794

**Vojta, Lea**; Mrljak, Vladimir; Ćurković, Snježana; Živičnjak, Tatjana; Marinculić Albert; Beck, Relja.

Molecular epizootiology of canine hepatozoonosis in Croatia. // International journal for parasitology. 39 (2009) , 10; 1129-1136

Maple, Jodi; **Vojta, Lea**; Soll Jürgen; Møller, Simon Geier.

ARC3 is a stromal Z-ring accessory protein essential for plastid division. // EMBO Reports. 8 (2007) , 3; 293-299

**Vojta, Lea**; Soll, Jürgen; Bölter, Bettina.

Requirements for a conservative protein translocation pathway in chloroplasts. // FEBS Letters. 581 (2007) , 14; 2621-2624

**Vojta, Lea**; Soll, Jürgen; Bölter, Bettina.

Protein transport in chloroplasts - targeting to the intermembrane space. // FEBS Journal. 274 (2007) , 19; 5043-5054

Fulgosi, Hrvoje; **Ester, Lea**; Ljubešić, Nikola.

Essential role of peptidyl-prolyl isomerase sll0408 in *Synechocystis* sp. PCC 6803 development. // Periodicum biologorum. 11 (2002) , 4; 413-419

## PROJECTS

### PRINCIPAL INVESTIGATOR:

2021-2023 CRP-ICGEB (Collaborative Research Program - International Centre for Genetic Engineering and Biotechnology) project "Redox-sensing and electron transfer at the inner envelope of chloroplasts – the role of the TROL-FNR interaction"

2019-2022 Bilateral Croatian-Serbian Scientific and Research Project "Exploring a regulatory role of TROL protein in electron partitioning in UVB-induced mechanism of flavonoid and anthocyanins accumulation in Arabidopsis leaf" funded by The Ministry of Science and Education of the Republic of Croatia and The Ministry of Education, Science and Technological Development of the Republic of Serbia

### COLLABORATOR on the following scientific projects:

2021-2024 Projekt Hrvatske zaklade za znanost "Procjena fotosintetske aktivnosti i fotozaštitnog potencijala TROL-FNR razdjelnice" (IP-2020-02-) – Voditelj Prof. dr. sc. Hrvoje Fulgosi

2016-2020 Member of COST Action 15113 (European cooperation in science and technology) "The Biogenesis of Iron-Sulfur Proteins: from Cellular Biology to Molecular Aspects", WG2: "Iron/protein-dependent signalling pathways in mitochondria" – PI Prof. Mario Piccoli

2015-2019 Project funded by the Croatian Science Foundation "Molecular mechanisms of alternative electron partitioning in photosynthesis" (IP-2014-09-1173) – PI Prof. dr. sc. Hrvoje Fulgosi

2012-2015 Project funded by ICGEB (International Center for Genetic Engineering and Biotechnology) "Dissecting complex regulators of photosynthetic energy conversion" - PI dr. sc. Hrvoje Fulgosi

2011-2012 Croatian - German bilateral project "Control of plant growth and senescence by energetic status of chloroplasts" - PI dr. sc. Hrvoje Fulgosi

2010-2013 Project funded by the Ministry of Science, Education and Sports of Republic Croatia "Regulatory mechanisms of photosynthesis and plastid differentiation" (098-0982913-2838) - PI dr. sc. Hrvoje Fulgosi

2007-2010 Project funded by the Ministry of Science, Education and Sports of Republic Croatia "Vaccination potential of a nematode *T. nativa* in protection of swine against trichinelosis" (053-0532265-2251) – PI Prof. dr. sc. Albert Marinculić