



TRansition paths to sUustainable
legume-based systems in Europe

3rd Newsletter of the TRUE Project

Legume based news and links
related to the EU-H2020-project TRUE

December 2018



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www.true-project.eu



The project partners are delighted to provide the third edition of the TRUE newsletters. We hope you will find the information and links we provide both interesting and useful. After more than 18 months the first intermediate report to the EU has been completed and presented in Brussels. Since the last Newsletter several new deliverables and reports were published and there have been further Legume Innovation and Networking (LIN) - Workshops in Athens and Budapest.

For information about the structure of TRUE please visit www.true-project.eu

Latest published reports and deliverables:

- **[Life cycle assessment \(LCA\) methodology report](#)**
The report describes the analytical framework for the LCA studies in TRUE and outlines the methodological approach in terms of scenarios to be analysed, data sets to be used, and LCA methods to be applied.
- **[Report: public and private procurement](#)**
This report covers the potential for legumes and legume-based products in the food service market
- **[M-LIN documentation](#)** and **[C-LIN2 clip](#)**
Find slides and posters presented at the Mediterranean Legume Innovation and Networking (LIN) Workshop in Athens and a short clip from the 2nd C-LIN in Budapest.

Papers published by TRUE partners and Work Packages leaders

- Marko Debeljak, leader of work package 8, held a talk about the TRUE project at the Chamber of Commerce and Industry of Slovenia in December 2018. The event was an Autumn Food Seminar and focused on food, nutrition and consumers. The abstract for the event can be found [here](#).
- Find an article about [Taxonomies for Knowledge Representation of Sustainable Food Systems in Europe](#) here (pages 45 and 49). The papers were presented at the [International Multiconference Information Society](#) in Ljubljana in October 2018.
- A paper published on [Plant responses to an integrated cropping system designed to maintain yield whilst enhancing soil properties and biodiversity](#) was co-authored by Dr. Pietro Iannetta, the coordinator of TRUE.
- The paper [Towards a characterisation of the wild legume bitter vetch \(*Lathyrus linifolius* L. \(Reichard\) Bässler\): heteromorphic seed germination, root nodule structure and N-fixing rhizobial symbionts](#), also co-authored by Dr. Pietro Iannetta, is available under the link provided.
- Find an interesting interview with Dr. Pietro Iannetta about [bean beer](#) on our website. This article is featured in the PGRO magazine: <http://www.pgro.org/agronomy-guides-publications/>.
- Read more about [project publications](#) [here](#).





Some special announcements of specific parts of the project website:

- In the **Blog "Notes from the Field"** you can find regular short updates by TRUE members regarding the research and innovation progress in the Case Studies and Work Packages.
[Read more ...](#)

List of the latest blog contributions:

- [Rhizobia are key partners for an eco-friendly agriculture](#)
- [A-maize-ing results with clover living mulches!](#)
- [Legumes are the key!](#)
- [Smart plants!](#)
- [Boosting legumes in the food service market](#)
- [The farmer and the lentil](#)
- [Soybean success story](#)
- [Building a new story of beans](#)
- [Legumes for aquaculture feed](#)

List of recent interviews published on the blog with answers about their role in the project, the innovative approaches and examples for transition paths:

- [Interview with Marko Debeljak, Jožef Stefan Institute, Slovenia](#)
- [Interview with Attila Krall, Agri Kulti, Hungary](#)
- [Interview with Geoff Squire, James Hutton Institute, UK](#)
- [Interview with Francis Rayns, Coventry University, UK](#)
- [Interview with Dave George, Stockbridge Technology Centre, UK](#)
- [Interview with Karen Hamann, Institute for Food Studies & Agro-industrial Development, Denmark](#)
- [Interview with Dr. David Styles, Bangor University, UK](#)
- [Interview with Bob Rees, Scotland's Rural College, UK](#)

- Documentation material of the first **Legume Innovation and Networking (LIN) Workshops** can be found [here](#). Also, watch the [videos of the LIN-Workshop in Budapest](#) published on the ESSRG website.
- **Stakeholder Survey:** If you are unable to participate in any of the LIN-Workshops you are invited to answer two key questions on the TRUE website. [Fill in ...](#)
- **Social media:** For an interactive exchange and first hand news, updates and information you should follow us on [Facebook](#), [Twitter](#) (@TrueLegumes) and on [ResearchGate](#).





Upcoming project events:

- 2nd TRUE **Legume Innovation and Networking (LIN) - Workshop** for the *Atlantic* region will take place from [7-8 May 2019 in Copenhagen](#).
- 2nd TRUE **LIN Workshop** for the *Mediterranean* region will take place from 9-10 July 2019 in Porto during the week of the General Assembly of the TRUE project.
- 3rd TRUE **LIN Workshop** for the *Continental* region will be in September 2019 in Slovenia.

Related information about legume based research and value chains

Legume-related forthcoming events include:

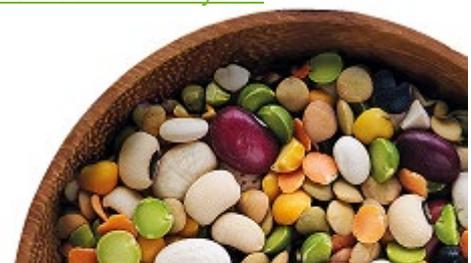
- [9th International DIVERSIFOOD Final Congress “Cultivating diversity and food quality” Conference on Legume Genetics and Genomics “Harnessing the potential of Legumes”](#) – on May 13-17, 2019 in Dijon, France.
- [Third International Legume Society Conference \(ILS3\)](#) – on 21-24 May 2019 in Poznan, Poland.
- [European Conference on Crop Diversification 2019](#) – on 18-21 September 2019 in Budapest, Hungary. This conference is organised by the *DiverIMPACTS* project in collaboration with other projects, including TRUE, who have formed a crop diversification cluster.

Proceedings of some past events

- In June the **2nd FOOD2030 High Level Event** with the title “Research and Innovation for Food and Nutrition Security – Transforming our food systems” took place in Plovdiv. Here you may find the [conference declaration](#) and further information about the conference. Under the [FOOD 2030 website](#) you may find the [Executive Summary](#) of the EC FOOD 2030, the full reports of [FOOD 2030](#) and [SCAR Group](#). On CORDIS a [results pack](#) is saved.
- [The Conference on the Development of Plant Proteins in the European Union](#) took place on 22-23 November 2018 in Vienna, Austria. Have a look at the [Commission Report](#) about an **EU Protein Plan** and at the panel presentations of the meeting.
 - Find here the [Report on 'the development of plant proteins in the European Union'](#)
- The final report of the [DIVERSIFOOD Final Congress “Cultivating diversity and food quality”](#), which took place 10-12 December 2018 in Rennes, France, will be uploaded soon.

Articles related to the project topic

- Read the full special issue of the **Journal of the American Oil Chemists’ Society** about alternative proteins, including an article about the Application of Barley- and Lentil-Protein Concentrates in the Production of Protein-Enriched Doughnuts, [here](#).
- Another article that might be of interest for you is [“Meatless burgers vs. beef: How Beyond Meat’s environmental impact stacks up”](#).



Merry Christmas and best wishes for next year

Since the Christmas holidays are coming closer, we attached a recipe provided by Cecilia Antoni to this newsletter. She is a food blogger for legume recipes (beanbeat.de, the English version will go online in a few weeks under beanbeat.com). Try it out or think also of another leguminous dish with which you can extend your Christmas menu.

Roasted cauliflower with crispy chickpeas and pomegranate seeds

Perfect for cold, gray & lazy winter days because the oven does the work, and the kitchen will be cuddly warm as well. The crispy chickpeas are anyway a good snack alternative to too much christmas cookies.

3 Persons:

100 g chickpeas, soaked
1 cauliflower
3 tsp rape seed oil
1 clove of garlic
1 teaspoon turmeric, ground
1 tsp fresh lemon juice
optional: some chilli
salt & black pepper
1/2 cup pomegranate seeds
1/2 bunch of fresh parsley, minced



Preheat the oven to 200 ° C.

Rinse the soaked chickpeas and dab dry with a dishcloth. Toss the chickpeas with 1 tsp oil in a bowl and spread on a baking tray. Roast for about 40 minutes in the oven. Stir from time to time. Season with salt after baking. Meanwhile, cut the cauliflower into florets and squeeze the garlic. Mix 2 tsp oil with the turmeric, garlic, lemon juice, chili, salt & pepper in a bowl, and add the florets. Spread on a baking tray and roast for 30 to 40 minutes until browning at the edges and starting to become tender. Mix the roasted cauliflower florets with the chickpeas. Season with salt & pepper. Add pomegranate seeds and parsley.

TIP: You can put chickpeas and cauliflower florets together on one baking tray, but the chickpeas become crispier when roasted separately.





On behalf of all the project partners, we extend a sincere ‘Thank You’ for your interest in TRUE, and we look forward to hearing from you either comments or contributions to our activities or on your own efforts in legume related science and technology.

Best wishes,

Henrik Maaß and the TRUE Communication Team



TRUE WP leaders and deputy leaders after the presentations of the first intermediate report at the review meeting in Brussels with project officer (from left to right: Dimitrios Savvas, Karen Hamann, Aneta Trajanov, Luiza Toma, Michael Williams, Alicia Kolmans, Fanny Tran, Marko Debeljak, Marta Vasconcelos, Bálint Balázs, Grazyna Galazka (PO), Georgia Ntatsi, Henrik Maaß, Pietro Iannetta (coordinator))

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