



General information	
PPS-number	AF-15269
Title	Sustainable Future Proteins Focus on nutritional and health-promoting quality
Roadmap/Koepel	-
Knowledge institutes that are involved	WFBR; UU-UIPS
Project leader research (name + e-mail address)	Prof. Dr. Harry J. Wichers harry.wichers@wur.nl
Co-ordinator (on behalf of private parties)	Dr. Prescilla V. Jeurink (Nutricia) prescilla.jeurink@danone.com
Contact person government	-
Start date	1 April 2016
End date	31 March 2020
Short description of contents	Development of a toolbox to assess the digestibility of proteins, to evaluate how well a given (mixture of) protein(s) is able to meet human amino acid requirements, and which spectrum of biologically active peptides is formed during digestion, with an emphasis on effects on gastro-intestinal health.

Highlights
<p>The entire set of proteins, resp. protein-containing samples, has been analysed with respect to structural properties of the proteins, their degree of contamination with pyrogens (relevant for immune assays).</p> <p>Gastric and intestinal digestion assays are in development. All samples have been subjected to in vitro-digestion, and attention has focussed on the optimal method to quantify degree of hydrolysis. A method to analyse digesta via proteomics is in development.</p> <p>Set-up of immunological read-outs has been initiated.</p> <p>The technological requirements for the development of a gut-on-a-chip have been defined:</p> <ul style="list-style-type: none"> • Various cell types have been compared • Support material has been selected • Cultivation conditions have been defined • Suitable read-out systems to assess gut barrier properties have been implemented

Number of delivered products in 2016			
Scientific articles	Reports	Artikels in branche journals	Introduction/workshops
Not yet	2 Progress reports	Food Navigator: http://www.foodnavigator.com/Market-Trends/Wageningen-launches-sustainable-protein-nutrition-	Not yet

		project?utm_source=newsletter_daily &utm_medium=email&utm_campaign =02-Nov- 2016&c=izdJj%2B%2Bnv%2BbYj5VH 3y5DhQ%3D%3D&p2=&k=FN-BBA- EMEA- SALTREDUCTION%20mailshot,FN- BBA-EMEA-NONGMO,FN-BBA-EMEA- SALTREDUCTION,FN-BBA-EMEA- CLEANLABEL%20mailshot,FN-BBAM- EMEA-CLEANLABEL,FN-BBA-EMEA- CLEANLABEL,FN-BBAM-EMEA- GLUTENFREE,FN-BBAM-EMEA- SALTREDUCTION	
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Appendix: Titles of the products or a link to products on a public website

YouTube movie: <https://www.youtube.com/watch?v=lawTiTi3Wck>

Radio interview November 1st 2016:

<http://www.nporadio1.nl/nieuws-en-co/onderwerpen/381319-werkende-darmen-op-een-schaaltje>

Television interview November 3rd 2016:

<https://www.youtube.com/watch?v=SRLCdzRI5-4>

Kennis Online: <http://www.wur.nl/nl/project/AF-15269-Future-Proteins-Nutritional-quality-and-bio-functional-activity-after-digestion.htm>