

HORIZON
2020

Optimal utilization of seafood side-streams through the design of new holistic process lines

Résultats

Informations projet

WASEABI

N° de convention de subvention: 837726

[Site Web du projet](#)

DOI

[10.3030/837726](https://doi.org/10.3030/837726)

Projet clôturé

Date de signature de la CE

29 Avril 2019

Date de début

1 Mai 2019

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31 Octobre 2023

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Contribution de l'UE

€ 3 197 397,00

Coordonné par

DANMARKS TEKNISKE
UNIVERSITET



Denmark

CORDIS fournit des liens vers les livrables publics et les publications des projets HORIZON.

Les liens vers les livrables et les publications des projets du 7e PC, ainsi que les liens vers certains types de résultats spécifiques tels que les jeux de données et les logiciels, sont récupérés dynamiquement sur [OpenAIRE](#).

Livrables

Documents, reports (5)

[Selection of decision tool in one supply chain and recommendation of support tools](#)

The deliverable D2.5: Selection of decision tool in one supply chain and recommendation of support tools is based on task 2.5 in connection to the output: : Development of a new support tool for the industries that ensure a more unbiased approach in the organizations.

[Legal and regulatory barriers hindering WASEABI concept adoption](#)

The deliverable D5.4: Legal and regulatory barriers hindering WASEABI concept adoption is based on task 5.4 and its output: Information to companies about how to adapt processes etc. to comply with the policies and regulations.

[Report on consumers' barriers and motives](#)

The deliverable D1.2 Report on consumers' barriers and motives is based on the output from task 1.3: Improved understanding of the link between consumer barriers and motives and their actual demands. This will be used for planning the work in WP3, 4 and 5.

[New bio-based value chains](#)

Deliverable 4.1: New bio-based value chains is based on task 4.1 and its output: Definition of new value chain for fish side-streams and pilots main results.

[Report on hurdles and bottlenecks in maintaining and value-adding of seafood side-streams](#)

The deliverable D1.1 Report on hurdles and bottlenecks in maintaining and value-adding of seafood side-streams is based on the outputs from task 1.1 Obtained knowledge and the results from the compositional analyses will be used in WP2 and WP3, and task 1.2 A map of the hurdles and bottlenecks. This will be used when planning the case studies in WP2, 3, 4 and 5.

Websites, patent fillings, videos etc. (2)

[Transnational conference](#)

Deliverable D6.3: Transnational conference is based on task 6.5. and its output: Training module with guidelines

[Website](#)

The deliverable D6.4: Website is based on task 6.1 and its output: A design manual, templates and communication materials (M6), Communication of the project via bookmarks and press releases (continuous).

Publications

Peer reviewed articles (19)

[Lipid oxidation and antioxidant delivery systems in muscle food !\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\)](#)

Auteurs: Haizhou Wu, Mark P. Richards, Ingrid Undeland

Publié dans: COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY, Numéro Volume 21, issue 2, 2022, Page(s) 1275-299, ISSN 1541-4337

Éditeur: International Life Sciences Institute

DOI: 10.1111/1541-4337.12890

[Making the objectively best choice for side-stream resources—Verification of a debiasing method based on cognitive maps and attribute substitution !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

Auteurs: Schrøder Søren Espersen, San Martin David, Foti Giuseppe, Gutierrez Monica, Iñarra Chastagnol Bruno, Nielsen J. Rasmus, Larsen Erling

Publié dans: Frontiers in Food Science and Technology, 2023, ISSN 2674-1121

Éditeur: Frontiers

DOI: 10.3389/frfst.2023.1068974

[Validation of a debiasing addition to Analytical Hierarchical Process tools to increase the effects of side-stream utilization and the choice of the filtration system in the European mussel aquaculture and processing industry !\[\]\(b792654f2cef9719eabeb6c5be00811e_img.jpg\)](#)

Auteurs: Søren Espersen Schrøder, David San Martin, Bruno Iñarra, Giuseppe Foti, Mónica Gutiérrez, Erling Larsen, J. Rasmus Nielsen.

Publié dans: Frontiers in Food Science and Technology, Numéro 3, 2023, ISSN 2674-1121

Éditeur: Frontiers

DOI: 10.3389/frfst.2023.1258713

[Inhibitory mechanisms of polyphenols on heme protein-mediated lipid oxidation in muscle food: New insights and advances !\[\]\(28f72b996fc97883dfd9d4e8b1b16b4e_img.jpg\)](#)

Auteurs: Haizhou Wu, Kathrine H. Bak, Gheorghe V. Goran & Nantawat Tatiyaborworntham

Publié dans: Critical reviews in food science and nutrition, Numéro 2022, 2022,

Page(s) 1-19, ISSN 1040-8398
Éditeur: Taylor & Francis
DOI: 10.1080/10408398.2022.2146654

[Five cuts from herring \(*Clupea harengus*\): Comparison of nutritional and chemical composition between co-product fractions and fillets](#) 

Auteurs: Haizhou Wu; Bitā Forghani; Mehdi Abdollahi; Ingrid Undeland
Publié dans: Food Chemistry: X vol.16(2022), Numéro 5, 2022, ISSN 2590-1575
Éditeur: Elsevier
DOI: 10.1016/j.fochx.2022.100488

[Ultrasound-Aided pH-Shift Processing for Resource-Smart Valorization of Salmon and Herring Side Streams](#) 

Auteurs: Michaela V. Santschi; Ingrid Undeland; Mehdi Abdollahi
Publié dans: Ultrasonics Sonochemistry, Numéro 99, 2023, Page(s) 106539, ISSN 1350-4177
Éditeur: Elsevier BV
DOI: 10.2139/ssrn.4464774

[Protein and Long-Chain n-3 Polyunsaturated Fatty Acids Recovered from Herring Brines upon Flocculation and Flotation—A Case Study](#) 

Auteurs: Bitā Forghani; Mihaela Mihnea; Tore C. Svendsen; Ingrid Undeland
Publié dans: Acs Sustainable Chemistry and Engineering, Numéro 11 (17), 2023, Page(s) 6523-6534, ISSN 2168-0485
Éditeur: American Chemical Society
DOI: 10.1021/acssuschemeng.2c06795

[Impact of Processing Technology on Macro- and Micronutrient Profile of Protein-Enriched Products from Fish Backbones](#) 

Auteurs: Mehdi Abdollahi, Haizhou Wu, Ingrid Undeland
Publié dans: Foods, Numéro 10/5, 2021, Page(s) 950, ISSN 2304-8158
Éditeur: MDPI
DOI: 10.3390/foods10050950

[Oxidative Stability of Side-Streams from Cod Filleting—Effect of Antioxidant Dipping and Low-Temperature Storage](#) 

Auteurs: Sørensen A-DM, Wu H, Hyldig G, Bøknæs N, Mejlholm O, Undeland I, Jacobsen C.
Publié dans: Marine Drugs, Numéro 21 (11), 2023, Page(s) 591, ISSN 1660-3397
Éditeur: Multidisciplinary Digital Publishing Institute (MDPI)
DOI: 10.3390/md21110591

[A Recyclable Dipping Strategy to Stabilize Herring \(Clupea harengus\) Co-products During Ice Storage](#) 

Auteurs: Haizhou Wu, Bitā Forghani, Mursalin Sajib, Ingrid Undeland

Publié dans: Food and Bioprocess Technology, Numéro volume 14, issue 12, 2021, Page(s) 2207–2218, ISSN 1935-5130

Éditeur: Springer Pub. Co.,

DOI: 10.1007/s11947-021-02717-9

[Model systems for studying lipid oxidation associated with muscle foods: Methods, challenges, and prospects](#) 

Auteurs: Haizhou Wu, Nantawat Tatiyaborworntham, Mahdi Hajimohammadi, Eric A. Decker, Mark P. Richards & Ingrid Undeland

Publié dans: Critical Reviews in Food Science and Nutrition, Numéro 10408398, 2022, ISSN 1040-8398

Éditeur: Taylor & Francis

DOI: 10.1080/10408398.2022.2105302

[Lipid oxidation in sorted herring \(Clupea harengus\) filleting co-products from two seasons and its relationship to composition](#) 

Auteurs: Haizhou Wu, Bitā Forghani, Mehdi Abdollahi, Ingrid Undeland

Publié dans: Food Chemistry, Numéro Volume 373, Part B, 2022, 2022, Page(s) 131523, ISSN 0308-8146

Éditeur: Elsevier BV

DOI: 10.1016/j.foodchem.2021.131523

[Production of Bioactive Peptides from Hake By-Catches: Optimization and Scale-Up of Enzymatic Hydrolysis Process](#) 

Auteurs: Iñarra, B.; Bald, C.; Gutierrez, M.; San Martin, D.; Zufía, J.; Ibarruri, J.

Publié dans: Marine Drugs, Numéro 21 (11), 2023, Page(s) 552, ISSN 1660-3397

Éditeur: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/md21110552

[Physicochemical and functional properties of protein isolated from herring co-products; effects of catching season, pre-sorting, and co-product combination](#) 

Auteurs: Eline van Berlo, Ingrid Undeland, Mehdi Abdollahi

Publié dans: Food Chemistry, Numéro 03088146, 2023, ISSN 0308-8146

Éditeur: Elsevier BV

DOI: 10.1016/j.foodchem.2022.133947

[Pilot-Scale Antioxidant Dipping of Herring \(Clupea harengus\) Co-products to Allow Their Upgrading to a High-Quality Mince for Food Production](#) 

Auteurs: Haizhou Wu, John Axelsson, Martin Kuhlin, Rikard Fristedt, and Ingrid Undeland

Publié dans: ACS Sustainable Chemistry & Engineering, Numéro 11 (12), 2023, Page(s) 4727-4737, ISSN 2168-0485

Éditeur: American Chemical Society

DOI: 10.1021/acssuschemeng.2c07164

[Recovery of Nutrients from Cod Processing Waters](#) 

Auteurs: Coque J, Jacobsen C, Forghani B, Meyer A, Jakobsen G, Sloth JJ, Sørensen A-DM.

Publié dans: Marine drugs, Numéro 21 (11), 2023, Page(s) 558, ISSN 1660-3397

Éditeur: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/md21110558

[Controlling hemoglobin-mediated lipid oxidation in herring \(Clupea harengus\) co-products via incubation or dipping in a recyclable antioxidant solution](#) 

Auteurs: Haizhou Wu, Mursalin Sajib, Ingrid Undeland

Publié dans: Food Control, Numéro 125, 2021, Page(s) 107963, ISSN 0956-7135

Éditeur: Elsevier BV

DOI: 10.1016/j.foodcont.2021.107963

[Liquid Side Streams from Mussel and Herring Processing as Sources of Potential Income](#) 

Auteurs: Bitá Forghani; Ann-Dorit Moltke Sørensen; Jens Jørgen Sloth; Ingrid Undeland

Publié dans: ACS Omega vol. 8(2023), Numéro 5, 2023, Page(s) 8355-8365, ISSN 2470-1343

Éditeur: ACS Omega

DOI: 10.1021/acsomega.2c07156

[Effect of recovery technique, antioxidant addition and compositional features on lipid oxidation in protein enriched products from cod- salmon and herring backbones](#) 

Auteurs: Haizhou Wu, Mehdi Abdollahi, Ingrid Undeland

Publié dans: Food Chemistry, Numéro 2021, volume 360, 2021, Page(s) 129973, ISSN 0308-8146

Éditeur: Elsevier BV

DOI: 10.1016/j.foodchem.2021.129973

Non-peer reviewed articles (1)

Developing new solutions for better utilization of seafood side-streams

Auteurs: Charlotte Jacobsen

Publié dans: Open Access Government, Numéro January, 2021, Page(s) 360,

ISSN 2516-3817

Éditeur: Open Access Government

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