



Exploitation Plan

Deliverable D5.2

<https://ferroreg.vin.bg.ac.rs/>



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About this document

Deliverable: D5.2 Exploitation Plan

Work package in charge: WP5 Communication, Dissemination & Exploitation

Actual delivery date for this deliverable: Project-month 16

Dissemination level: The general public (PU)

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Summary

Exploitation in the FerroReg project implies use of results in improving scientific and public knowledge and action on scientific, social and decision making level. Exploitation of the results (know-how, roundtable reports, “white paper” with recommendations from Project results) within academic and scientific community (including health and science related national societies) and listed national statutory organizations will be boosted within the third year of project duration. Exploitation plan includes:

- definition of exploitation objectives
- project results to be exploited
- exploitation routes
- target stakeholders

The exploitation strategy will be further developed and enhanced along with the project’s progress.

Objectives

The overall objective of the deliverable D 5.2 Exploitation Plan, is to define the work that will be done in terms of exploitation of the project results. It describes the exploitation strategy, in order to maximize the impact of project results for the target audience. Specific objectives of deliverable are:

- generation of further research using know-how gathered within the project, which will improve interdisciplinary capacities toward precision medicine
- implementation of scientifically and experimentally-based knowledge in supporting more sustainable decisions for prevention and treatment of MS and neurodegenerative diseases
- recommendations of disease modifying strategies toward precision supplementation and nutrigenomics beyond evaluated habitual diets of MS patients
- generation of polygenic scores-based preventive strategies and prognosis prediction
- recommendations for policy makers and practitioners

Project results to be exploited

- defined genetic architecture behind the ferroptosis in human complex diseases targeting of variants with functional capacity in both, brain and blood
- defined posttranscriptional regulation of key genes in ferroptosis pathway
- quantified intermediate and end-point molecular components of the main ferroptosis related processes in relation to disease severity, gene expression and genetic regulators
- functional characterization of therapeutic targets
- defined risk and disease modifying intracellular, extracellular, genetic and epigenetic factors

Exploitation routes

- Open Access to peer-reviewed scientific publications to share new experimentally based knowledge within academic and scientific community (including health and science related national and international societies) in order to improve the knowledge and skills of researchers
- Open access data concept (as explained in Data usage) and improvement of the knowledge and skills of the researchers or public on open access matters by promoting related documents on project website
- Creating a panel of genes and SNPs valuable for prediction of disease severity and follow up of ferroptosis related molecular processes
- Know-how will be exploited toward the design and implementation of future clinical trials and interventional studies in Serbia
- Roundtable reports with interest groups and stakeholders to improve: communication channels between science and public, dietary modifications and nutritional medicine, strengthening the local supplements and food product producers' participation and therapeutic strategies

Proposed applications have rationale to be used beyond multiple sclerosis, as the components of processes proposed in this project are common targets in many complex diseases and environmental and occupational health

Stakeholders

- National Authorities
- Local and Regional Authorities
- National and International Scientific Community, Academia
- National statutory organizations (such as Public Health Institutes, Health Institutions of all level of health protection)
- Citizens, patients and the public (individuals, municipalities, cities)
- National Industry (small and medium enterprises involved in production of food and food products, supplements)

Technology Readiness Level (TRL) status

Deliverables of the FerroReg Project will reach:

TLR level	Definition
TLR 1	Basic Principles Observed and Reported
TLR 2	Potential Application Validated

Further exploitation

Future research activities will enrich the knowledge base developed in FerroReg. It will especially address the identified knowledge gaps in order to systematically increase the understanding of influence factors and impacts. Know-how and newly adopted methodologies provide a basis for continuous expansion and will improve interdisciplinary capacities toward precision medicine. Long lasting open accessibility and dissemination of project will enable the widespread influence and possibility to reach target groups beyond the project duration. Generated results will be exploited toward design and implementation of future clinical trials and interventional studies in Serbia while the successfully realization of the proposed project aims will enhance the reputation, attractiveness and networking of the coordinating and participating institutions nationally and internationally, beyond the end of the project.