



H2020-WIDESPREAD-2017
Twinning

MiCoBion

Microbial Communities in Biomedical and Environmental Areas, and Systems Biology

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= Deliverable: D5.2 = **MiCoBion Webpage Developed**

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PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



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Executive Summary

[MiCoBion project website](#) has been set up within the new official website of the [BIOCEV centre](#) in order to increase public awareness of Microbial Communities in Biomedical and Environmental Areas, and Systems Biology research and the MiCoBion project. The website is available for public access. The website will be actively maintained during the project period with the goal to communicate all achievements to selected focus groups.

Beside the official public website, a shared Google Disk has been created as a management tool to store the project related data, information and documents. This shared disk is divided into each WP and accessible by each member of the MICOBION project management. Administration of the Google Shared Disk is technically supported by the Faculty of Science, Charles University.

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1. Introduction

Deliverable D5.2 *MiCoBion Webpage Developed* is associated with task T5.1 *Communication and dissemination activities*. The objective of this task is to assure that the results of the project will be disseminated to the European research and industrial community, will target all important stakeholders in the field of Microbial Communities and Systems Biology and will assure an on-going communication between general public, experts, industries, etc. on one side and MiCoBion partners on the other.

The task also describes creation of a comprehensive dedicated website for the project. This was established at the beginning of the project as a part of the [BIOCEV website](#), under the “[Projects](#)” tab and will be actively maintained during the project period. The MiCoBion website has been operational since September 2018 in its full version.

2. MiCoBion Website

Webpages of the MiCoBion project are positioned under the “Projects” tab of the BIOCEV Centre website: [HERE](#). The aim of the website is to (1) inform wide public about the project, its aims, activities and results, (2) inform stakeholders (students, young and senior researchers at CUNI-BIOCEV, companies) about the upcoming events they might want to attend. The website, mainly its section about news and events has been updated regularly.

2.1. About Us

ABOUT US is the project’s home page (Figure 1) and is divided into several frames:

- navigation menu with titles of the pages,
- information about the project, its full name, goals, the partnership and the scientific strategy (including visualizations)
- acknowledgment of EU funding, an illustration of the EU flag and MiCoBion project logo,
- information about project news, events, publications.

2.1.1. News

The News section of the home page includes the latest information about the progress of the MiCoBion project and also about results of the research areas supported by MiCoBion (Figure 2, Figure 3). This section is updated regularly.

2.1.2. Events

The Events section of the home page invites relevant stakeholders to attend project events (i.e. lectures, workshops, conferences) (Figure 2). The invitations include information about the event location, time, speaker(s) and topic (Figure 4).

2.1.3. Publications

The Publications section has been already designed and is a part of the project website administration system. Once the relevant documents will be uploaded, new title/section (Publications) will appear public. In the Publications section, all project related scientific publications, public deliverables and other relevant publications will be made available.

2.2. Team

The project team includes specialists at various levels:

- Project coordinator
- Project team
- EAB members

Their profile and contact information is listed on the TEAM webpage (Figure 5).

2.3. Collaboration

The MiCoBion consortium consists of 3 partners with complementary backgrounds that will help to achieve the goals of the project. Links to each partner are placed into this COLLABORATION webpage (Figure 6).

MiCoBion

BIOCEV

ABOUT RESEARCH PROGRAM INFRASTRUCTURES AND CORE FACILITIES CAREER CONTACTS

ABOUT US TEAM COLLABORATION

MiCoBion

Prof. RNDr. Jan Tachezy, Ph.D. — Project head

About us

Excellent project of the BIOCEV center to foster cooperation with foreign partners

The main goal of the proposed project **MiCoBion (Microbial Communities in Biomedical and Environmental Areas, and Systems Biology)** is to strengthen scientific excellence and innovation capacity at Charles University and its Biotechnology and Biomedicine Center (CUNI-BIOCEV) via collaboration with Catholic University of Leuven (KU), European Molecular Biology Laboratory (EMBL), and University Paris Diderot-Institute Jacques Monod (UPDiderot-UM) in the field of high throughput molecular profiling of biological systems that will foster innovative research of complex microbial communities and their impact on health and environment.

Twinning action

- High-throughput technology genomics, transcriptomics, proteomics
- Big data analysis - bioinformatics

IMPACT

- Excellent research
- Innovation
- New biomarkers, targets, diagnostics

This research area includes the analysis of viromes, eukaryotic and bacterial microbiomes, and selected defined model microbial communities to tackle challenges such as discovery of new pathogens (viruses), identification of new biomarkers for disease, drug targets and their applications.

The research of complex microbial communities is based on three pillars:

- excellent knowledge in microbiology
- high throughput technologies that generate voluminous datasets
- computation of these "big data".

OBJECTIVE 1: Viromes

- Aim 1: Honeybee virome
- Aim 2: RNA viromes (hepatitis C virus as a model)

OBJECTIVE 2: Eukaryotic and bacterial microbiomes

- Aim 3: Microbiome of termite gut
- Aim 4: Microbial communities – interactions with mammalian hosts
- Aim 5: Gut microbiome – effect on infection cysts

OBJECTIVE 3: Defined microbial communities as laboratory models

- Aim 6: Impact of vaginal microbiome on *T. vaginalis*
- Aim 7: Adaptation of eukaryotic phytoplankton to iron limitation
- Aim 8: Molecular interactions within yeast colonies

Strength of CUNI is an excellent knowledge of microbial systems important for human and animal health, and environmental issues. Weakness is the research capacity in analysis of "big data", limited experience in innovative research and technology transfer. Thus, twinning activities will be focused on promotion of knowledge and research capacity of a multidisciplinary team at CUNI in the defined area of bioinformatics, implementing cutting edge multiomics technologies, and establishing a pipeline from an excellent basic research to high value-added applications.

Activities include exchange of scientists, joint supervision of young scientist, organization of seminars and lectures, participation in EMBL and CUNI courses, and dissemination in scientific community, industries and public. The project aim will be achieved via a complementary expertise of EU leading partners, which will reinforce an excellent research and competitiveness of CUNI.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 810224

Figure 1: MiCoBion Website Homepage (General Information)

News



PROJECTS — 24.10.2018

The MICOBION project has begun



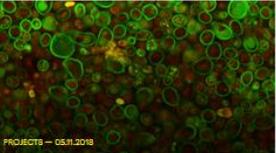
PROJECTS — 20.09.2018

Project MICOBION was officially launched on September 1st. Kick-



PROJECTS — 18.09.2018

Poster by Nadine Zimmann and her colleagues was selected from



PROJECTS — 05.11.2018

Our yeast research experts launch a scientific debate about lower

Events

PROJECTS — FACULTY OF SCIENCE, CUNI

04.12.2018

MICOBION Lecture - Endosymbionts of termite gut flagellates: Examples of convergent evolution

f in v

Figure 2: News and Events Section

BIOCEV

LEAD BY | TWINNING PROGRAM | IMPLEMENTATION AND COOPERATION | SUMMER | CONTACTS



PROJECTS — 04.09.2018

MiCoBion

The MICOBION project has begun

The prestigious MiCoBion project was launched in September, supported by the "Twinning - Spreading Excellence and Widening Participation, Horizon 2020" program coordinated by the Charles University Faculty of Science (prof. Jan Tachezy, Department of Parasitology - BIOCEV). The project's main goal is to foster scientific excellence and the innovative capacities of CU FS laboratories through collaboration with leading partners – the Catholic University of Leuven (CUL), the European Molecular Biology Laboratory (EMBL) and the Jacques Monod Institute (Paris Diderot University) – in the field of complex molecular profiling of biological systems (microbiomes) that will lead to innovative research into microbial communities and their impact on health and the environment.

Joint research will include comprehensive analysis of communities of viruses, single-celled eukaryotes and bacteria. The work is expected to identify new pathogens (viruses), diagnostic biomarkers and potential goals for the development of new medications and their applications.

The strength of the CU FS teams is their excellent knowledge of microbial systems, important for the health of humans and animals, and their impact on the environment. The partner organizations bring to the project experience in new analytical technologies, bioinformatics and innovative research. Planned activities include the exchange of researchers, joint support for the development of young researchers, the organization of seminars and lectures by renowned specialists, as well as participation in EMBL, CUL and CUI courses. The project will also strengthen cooperation and communication between the scientific community, industry and the general public.




MICOBION Kickoff Meeting (Prague)

On 21 September 2018, key representatives of the MICOBION project (H2020 – Twinning) met at the BIOCEV Centre. The project is focused on improving knowledge in the field of research into microbial communities (microbiomes). Guests included partner institution representatives from EMBL, the Jacques Monod Institute and the Catholic University in Leuven. The aim of the meeting was to enable participants to become acquainted, to present research goals, and to determine educational and research activities for the next 18 months.

Individual from groups (Dilok Pasakagat - WP) were presented during the meeting:

- WP1 – education of PhD students through specialized courses (Functional genomics, Metagenomics, etc.)
- WP2 – transfer of knowledge during stays abroad by leading researchers and young scientists at partner institutions
- WP3 – professional growth (specialized courses by distinguished scientists, courses focusing on writing scientific publications or preparing grants)
- WP4 – workshops and conferences (e.g. Single DNA Molecule Sequencing or Proteomics and Protein Modifications)
- WP5 – communication and technology transfer (e.g. project promotion and cooperation with the technology transfer departments of partner institutions)

Following the presentation at which representatives of individual WPs engaged a detailed plan of activities and somewhat regular contact through teleconferencing. The entire event concluded with some voice from the external advisory board, which guides the strategy and organization of the project.

Members of the MICOBION external advisory board

- Prof. Mark O. Field, Professor of Cell Biology and Parasitology at School of Life Sciences, University of Dundee
- Prof. Stefan Böhm, Head of Microbiology, Department of Cell and Molecular Biology, Uppsala University
- Prof. Luigi De Paoli, Director of Department of Biomedical Sciences, School of Medicine, University of Sassari, Italy

Figure 3: Detail of Project News

04.12.2018 | 16:30
 Faculty of Science, Charles University, Viničná 7, Praha

Prof. Dr. Andreas Brune, Max Planck Institute for Terrestrial Microbiology
Endosymbionts of termite gut flagellates: Examples of convergent evolution

[MICOBION website](#)

Figure 4: Detail of Project Events

ABOUT US | **TEAM** | COLLABORATION

MiCoBion

Prof. RNDr. Jan Tachezy, Ph.D. — Project head

Team

<p>Prof. RNDr. Jan Tachezy, Ph.D. Vice-Chairman of the Board, Co-ordinator of Cellular Biology and Virology Research Programmes</p> <p>jan.tachezy@natur.cuni.cz +42022573292</p>	<p>prof. Jean-Michel Comadieu Université Paris Diderot, Institut Jacques Monod</p> <p>jean-michel.comadieu@univ-paris7.fr</p>	<p>Mgr. Pavel Doláňal, Ph.D. Head of Group Mechanisms for Transport of Proteins through Mitochondrial and Bacterial Membranes</p> <p>pavel.dolanal@natur.cuni.cz +42022573292, +42022573292</p>	<p>RNDr. Vladimír Beneš, CSc. Head of Genomics Core Facility - IAMEL Member of General Assembly - MICOBION project</p> <p>benes@embi.cz</p>
<p>prof. Marc Van Ranst Full professor (part-time) Faculty of Medicine Department chair of the Department of Microbiology and Immunology Member of Ghislain Leclercq Université de Valenciennes et du Nord de la France</p> <p>marc.vanranst@univ-va.be</p>	<p>doc. Mgr. Vladimír Hamol, Ph.D. Head of Group Genomics of Eubaryotes and Lateral Gene Transfer</p> <p>vhamol@natur.cuni.cz +42022573291, +42022573292</p>	<p>prof. Pier Luigi Fiori Member of External Advisory Board</p> <p>fiori@uniba.it</p>	<p>Prof. Mark Field Member of External Advisory Board</p> <p>m.f.field@ndee.ac.uk</p>

Figure 5: MiCoBion Project Team

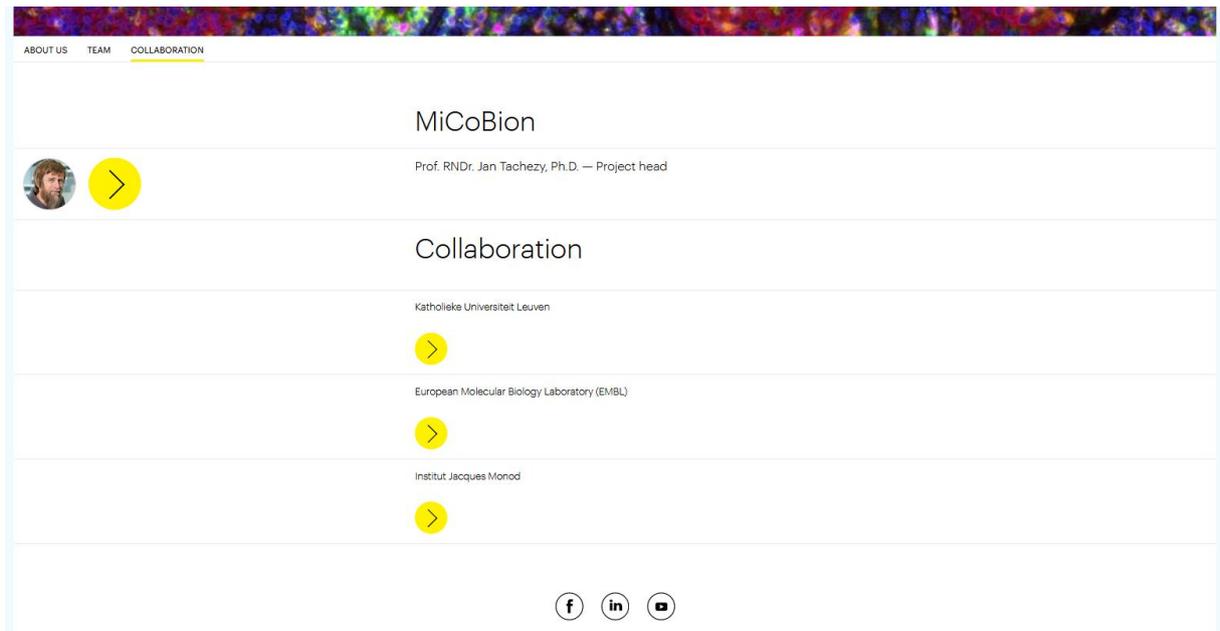


Figure 6: Collaboration - links to project partners / institutions

3. Conclusions

[The MiCoBion project website](#) meets the requirements which were set for the website in the respective task T5.1 Communication and dissemination activities. The only difference compared to the plan is that it is not used as a management tool due to the reason that MiCoBion Google Shared Disk has been set up as a repository of documents, which is accessed by all the partners. The project website has been set up in order to increase public awareness of MiCoBion and to disseminate the project's results. Basic information on the project can be found on the webpage as well as public deliverables and project outcomes and publications.

4. Degree of Progress

The deliverable is 100% fulfilled. The maintenance of the website will be carried out during the whole course of the project.

5. Dissemination Level

The Deliverable 5.2 *MiCoBion Webpage Developed* document is public.