

1st Partnership Meeting Patras Medicine – MetaThess

Date: 03/03/2022

This is the start of our Partnership Journey!

Our first meeting of this year's partnership was attended by 1 member from the Patras Medicine team and 1 member from the MetaThess team. These members are the responsible individuals designated by each team to manage the partnership.

We gathered to discuss our cooperation and our common path to the iGEM competition. We introduced ourselves and got to know each other as we are the ones who undertake the basic communication on partnership issues.

The following refers to the organization of the Partnership:

- ❖ We have established that we will make weekly calls - Every Thursday-between our teams to keep up with our progress upon our co-actions.
- ❖ We have created a shared folder in which we will list all the actions that can be done together, as partners, in each part of the iGEM Competition.

2nd Partnership Meeting Patras Medicine – MetaThess

Date: 10/03/2022

In this meeting, all members of the Patras Medicine team and the MetaThess team participated.

At first, some members of each group presented the projects separately. Along these lines, we understood how close our ideas are and how sufficiently the partnership between the two teams can work.

No specific organization took place at this meeting. Instead, we introduced ourselves and got to know each other better.

Besides, we are at the beginning of the collaboration and still have a long way to go!

3rd Partnership Meeting Patras Medicine – MetaThess

Date: *11/03/2022*

In this meeting, 4 members from the Patras Medicine team and 2 from the MetaThess team participated.

We talked about how our teams can coordinate and help each other in fundraising. More specifically:

Fundraising

- ❖ Fundraising training for the iGEM Patras Medicine team by the iGEM MetaThess team.
- ❖ We looked for companies and associations with a common purpose like ours.
- ❖ We have created a list of potential sponsors and companies that can support our projects.

4th Partnership Meeting Patras Medicine – MetaThess

Date: 17/03/2022

In this meeting, 4 members from the Patras Medicine team and 2 from the MetaThess team participated.

Fundraising

- ❖ The fundraising team of iGEM MetaThess shared with the fundraising team of iGEM Patras Medicine an epistle letter, which a team may request from the respective University, to which each team is referring, the zero withholding of money from the sponsorships given by any companies to the team.
- ❖ The fundraising team of iGEM MetaThess presented a different way in which the fundraising team should approach the companies left on the list of those that iGEM Patras Medicine needs to contact.

5th Partnership Meeting Patras Medicine – MetaThess

Date: 24/03/2022

In this meeting, 4 members from the Patras Medicine team and 1 from the MetaThess team participated.

Fundraising

- ❖ The fundraising team of iGEM MetaThess presented a platform to the fundraising team of iGEM Patras Medicine through which a Greek team can manage its finance. This platform is called WebRescom and it was made by the members of the group of “Special Account of Research Funds”. It helps a team to make financial transactions, to receive sponsorships, to pay for laboratory expenses, organization of expenses and revenues.

6th Partnership Meeting Patras Medicine – MetaThess

Date: 31/03/2022

In this meeting, 4 members from the Patras Medicine team and 1 from the MetaThess team participated.

Fundraising

- ❖ We organized our budget management together, considering the competition's expenses and all the lab equipment and supplies our Wet Lab teams might need.

We also ended up having the Research Genetic Cancer Center (RGCC Group) as a joint grand sponsor!

7th Partnership Meeting Patras Medicine – MetaThess

Date: 07/04/2022

In this meeting, 3 members from the Patras Medicine team and 6 from the MetaThess team participated.

We arranged this meeting to organize the upcoming meeting on 11/04 with Mr. Apostolou, Supervisor and Safety and Quality Manager at the Lab Facilities of RGCC. More specifically, we discussed the following:

- ❖ Questions concerning safety in laboratories. We managed to collect them in an organized list.
- ❖ The questions concern clothing, waste disposal, and correct laboratory procedures, information that is also useful for our laboratory behavior.

8th Partnership Meeting Patras Medicine – MetaThess

Date: 14/04/2022

In this meeting, 2 members from the Patras Medicine team and 2 from the MetaThess team participated.

We decided to exchange graphic design information in the next two meetings.

In this meeting, a presentation was made on how the MetaThess team completes their graphics. More specifically:

- ❖ A presentation of the design tool – Canva was made by the team's graphic designer.
- ❖ They guided us through the essential tools they use to create the graphics and how to use the program.
- ❖ They created a graphic for us to publish on social media to show us its use in practice.

9th Partnership Meeting Patras Medicine – MetaThess

Date: 21/04/2022

In this meeting, 2 members from the Patras Medicine team and 2 from the MetaThess team participated.

In this meeting, a presentation was made on how the Patras Medicine team completes their graphics. More specifically:

- ❖ A presentation of the graphic design software – Adobe Illustrator, was made by the team's graphic designer.
- ❖ We managed to show its use straightforwardly. We guided them on how to create, select, and manipulate objects with some tools such as the sidebar, keyboard shortcuts, and others.
- ❖ As we did in the last meeting, we created a graphic for them to publish on social media to show us its use in practice.

10th Partnership Meeting Patras Medicine – MetaThess

Date: 28/04/2022

In this meeting, 4 members from the Patras Medicine team and 6 members from the MetaThess team participated.

We talked about how our teams can coordinate and help each other in the department of the lab in general. More specifically:

Wet Lab

Discussion over ideas that could be carried out:

- ❖ Meeting in the laboratory of the iGEM MetaThess team in order to perform some experiments together as we have similar projects.
- ❖ Choose an already existing Part of the competition and try to fit it into our project and develop it further.

Dry Lab

Discussion over ideas that could be carried out:

- ❖ The dry lab members of the MetaThess iGEM team will train the dry lab members of the Patras Medicine team in order to familiarize them with the software corresponding to the nucleic acid analysis.

11th Partnership Meeting Patras Medicine – MetaThess

Date: 03/05/2022

In this meeting, all members from the Patras Medicine team and all members from the MetaThess team participated, as each team's PI.

A call with the PIs of both teams took place this week.

We gathered to present our project, each team separately, with the presence of our PIs in hope of an opinion and idea exchange between our two supervisors and teams. In that call, both iGEM Patras Medicine and iGEM MetaThess were able to get some very needed guidance for their individual projects. Furthermore, we were allowed to meet the whole team officially as well as our PIs among them.

The thought of future collaboration both on and off iGEM was considered!

12th Partnership Meeting Patras Medicine – MetaThess

Date: 12/05/2022

In this meeting, the members of each team responsible for partnership communication participated.

Education and Communication

- ❖ We started brainstorming ways to achieve a collaborative approach to Communication and Education.
- ❖ We read the instructions set by the competition for the specific criterion and the award
- ❖ We created an initial list of ideas to discuss with the members of the separate Human Practices subgroups in another meeting.

13th Partnership Meeting Patras Medicine – MetaThess

Date: 19/05/2022

In this meeting, 3 members from the Patras Medicine team and 2 from the MetaThess team participated.

We started the cooperation about the Dry Lab part. We understood that both teams should turn our attention to the modeling process of our projects. We divided our collaboration into 3 parts.

1st Dry Lab Part

- ❖ After selecting the biomarkers is the design of the RNA sequences that could make the detection possible.
- ❖ We helped each other select the ideal candidate after constructing a library of candidates' sequences.
- ❖ The dry lab members of MetaThess familiarized us with the software ViennaRNA that was used for calculating the thermodynamic properties.

14th Partnership Meeting Patras Medicine – MetaThess

Date: 26/05/2022

In this meeting, 4 members from the Patras Medicine team and 3 from the MetaThess team participated.

This is the final meeting on the design of our common path on “Education and Communication.” Each team’s human practices members gathered at this meeting to discuss our ideas. More specifically:

- ❖ Seminar about lung cancer: It will be organized by the iGEM MetaThess team with co-organizers the Patras Medicine team. Presentation of our projects to the public and familiarization with synthetic biology.
- ❖ Invitation of the iGEM MetaThess team to the series of podcast episodes of the iGEM Patras Medicine team to announce our partnership and learn about their experience so far.
- ❖ Invitation of the iGEM Patras Medicine team to the Thessaloniki International Exhibition 2022 to spread our project and synthetic biology to the world and meet new people.
- ❖ Joint organization of a webinar which will cover knowledge of graphic design in Adobe Illustrator and bioinformatics as a survival kit for future iGEMers.
- ❖ Joint presentations in schools in Patras and Thessaloniki in the context of familiarizing students with the concept of SynBio.

This is our complete list of “Communication and education” part.

15th Partnership Meeting Patras Medicine – MetaThess

Date: 02/06/2022

In this meeting, 2 members from the Patras Medicine team and 2 from the MetaThess team participated.

The social media managers of each group joined us in today's meeting.

On the occasion of World Cancer Survivors Day, which was established every first Sunday of June, we decided to create a graphic to honor the survivors. It was an opportunity to inform the public about this day through a post on Instagram.

Patras Medicine Team

Our team undertook to search for information about this day and to create the text of the post.

MetaThess Team

Our team undertook to design the graphic, which will be published on both teams' social media.

16th Partnership Meeting Patras Medicine – MetaThess

Date: 09/06/2022

In this meeting, the members of each team responsible for partnership communication participated.

We started brainstorming ways to cover all the bioethical aspects of our projects.

The transmission will take place to learn the legislation governing our projects at national and European levels.

National Level:

We decided to contact National Organization for Medicines (EOF in Greek)

European Level:

We decided to contact European Medicines Agency.

17th Partnership Meeting Patras Medicine – MetaThess

Date: 16/06/2022

In this meeting, the members of each team responsible for partnership communication participated.

Human Practices & Collaboration

- ❖ We started brainstorming ways to achieve a collaborative approach to Human Practices.
- ❖ We brainstormed ways to achieve the collaboration criteria together.
- ❖ We read the instructions set by the competition for the specific criteria of human practices and collaborations
- ❖ We created an initial list of ideas to discuss with the members of the separate Human Practices subgroups in another meeting.

18th Partnership Meeting Patras Medicine – MetaThess

Date: 25/06/2022

In this meeting, 3 members from the Patras Medicine team and 6 from the MetaThess team participated.

The wet lab members from both teams gathered to discuss their further collaboration. More specifically:

- ❖ We decided which experiments will be done together when we are in the iGEM MetaThess team's laboratory in Thessaloniki.
- ❖ Both our projects involved fluorescence measurements. We discussed what steps we should take into consideration such as pH stability, photobleaching, etc.
- ❖ iGEM Patras Medicine team gave insights on how a plasmid should be modeled and what protein purification methods should iGEM MetaThess integrate into their project.

19th Partnership Meeting Patras Medicine – MetaThess

Date: 07/07/2022

In this meeting, 4 members from the Patras Medicine team and 3 from the MetaThess team participated.

This is the final meeting on the design of our common path on “Human Practices” and “Collaborations.” Each team’s human practices members gathered at this meeting to discuss our ideas. More specifically:

Human Practices:

- ❖ Meeting with EOF executives: presenting each group's idea and preparing interview questions.
- ❖ Meeting with EMA executives: presenting each group's idea and preparing interview questions

As discussed in previous meetings, the human practices subgroups agreed to conduct meetings on bioethical issues.

- ❖ More frequent meetings with our PIs to cover any lapses that occur.

Collaborations:

- ❖ Creation of a poster with teams on the same track as ours – Diagnostics. We will request pictures from their laboratory and tell us about the disease they are diagnosing.
- ❖ World Friendship Day: Posting on social media and announcing our partnership.
- ❖ World lung cancer day: brainstorming ideas we can do to honor that day.

This is our complete list of “Human Practices” and “Collaboration” parts.

20th Partnership Meeting Patras Medicine – MetaThess

Date: 17/07/2022

In this meeting, 2 members from the Patras Medicine team and 2 from the MetaThess team participated.

Deliverables – WIKI

- ❖ We decided how to present our timeline during our partnership journey in the WIKI. Our first 2 thoughts were to present different aspects of our collaboration (Science Communication, Wet Lab, etc.) in chronological order or a segment-based approach.
- ❖ Our WIKI experts had a discussion on how to present our partnership page in the WIKI, whether it should have subpages of every category or just one page that includes all our collaborative actions.

21st Partnership Meeting Patras Medicine – MetaThess

Date: 26/07/2022

In this meeting, 3 members from the Patras Medicine team and 2 from the MetaThess team participated.

This is the second part of our cooperation on the dry lab part. The second part that we worked on together was the Molecular Dynamics Simulations.

2nd Dry Lab Part

- ❖ Research on RNA-RNA interactions and protein-RNA interactions.
- ❖ iGEM Patras Medicine guided the iGEM MetaThess team through RNA – RNA molecular dynamics simulations with the oxRNA software.
- ❖ We shared the appropriate literature to achieve our goals.
- ❖ iGEM Patras Medicine helped iGEM MetaThess with the GROMACS software.

22nd Partnership Meeting Patras Medicine – MetaThess

Date: 29/07/2022

In this meeting, 2 members from the Patras Medicine team and 2 from the MetaThess team participated.

The social media managers of each group joined us in today's meeting.

World Friendship Day

On the occasion of World Friendship Day, to celebrate our friendship as partners, we created a graphic to announce the partnership. It had already been discussed in a previous meeting, and we implemented it.

World Lung Cancer Day

On the occasion of World Lung Cancer Day, we prepared a graphic in which we presented the forms of all subtypes of lung cancer and wrote a text that gave detailed information about each type of it. We will publish a social media post containing this information announcing that both groups are working on Projects aimed at early diagnosis of lung cancer.

23rd Partnership Meeting Patras Medicine – MetaThess

Date: 02/08/2022

In this meeting, 4 members from the Patras Medicine team and 2 from the MetaThess team participated.

This is the first meeting in which, as fundraising subgroups, we discussed the business plans of each group. More specifically:

- ❖ We saw and analyzed the business model canvas.
- ❖ We discussed the stakeholder analysis.
- ❖ We talked about the legal environment.

24th Partnership Meeting Patras Medicine – MetaThess

Date: 07/08/2022

In this meeting, 4 members from the Patras Medicine team and 3 from the MetaThess team participated.

Each team's human practices members gathered at this meeting to discuss our ideas on the Sustainable Development Goals of the United Nations.

The SDGs

- ❖ We studied the 17 sustainable development goals (SDGs) of the United Nations Foundation to transform our world.
- ❖ After discussing and analyzing the goals, we discovered which goals we achieve with the projects we implement.
- ❖ We wrote corresponding texts analyzing each objective.

25th Partnership Meeting Patras Medicine – MetaThess

Date: 14/08/2022

In this meeting, 2 members from the Patras Medicine team and 1 from the MetaThess team participated.

Our Podcast Episode

- ❖ We created the script in the form of questions and answers for the episode to flow.
- ❖ We organized the audiovisual equipment and started the recording.
- ❖ We edited the podcast's audio to fix misconceptions that occurred during the recording.

26th Partnership Meeting Patras Medicine – MetaThess

Date: *18/08/2022*

In this meeting, the members of each team responsible for partnership communication participated.

Both teams made promotion videos in English and Greek.

We organized this meeting so that the iGEM MetaThess team translated the iGEM Patras Medicine team's Greek text into English and vice versa.

Since we saw the script as partners, we also gave feedback about the content of the video.

27th Partnership Meeting Patras Medicine – MetaThess

Date: 25/08/2022

In this meeting, the members of each team responsible for partnership communication participated.

As partners, we decided to organize a webinar on: “One step closer to the Gold Medal.” We decided to divide the organization into 3 parts.

In the first meeting, we decided on the topic of the webinar which will be bioinformatics as the first part and graphic design as the second part.

We also arrived at the date and time of its implementation.

28th Partnership Meeting Patras Medicine – MetaThess

Date: 30/08/2022

In this meeting, 3 members from the Patras Medicine team and 4 from the MetaThess team participated.

This is the second meeting for us to organize the webinar. The members responsible for social media and the speakers of the webinar gathered to organize this.

Social Media Team contribution:

- ❖ We agreed and created the program of the webinar to be published on the social media of the two teams and to promote it on them.

Discussion with the speakers:

- ❖ We discussed the content of each speaker's presentation to prepare for the presentation.

29th Partnership Meeting Patras Medicine – MetaThess

Date: 31/08/2022

In this meeting, 3 members from the Patras Medicine team and 4 from the MetaThess team participated.

This is the final meeting for the organization of the Webinar “One step closer to the Gold Medal.”

The specific call was made to rehearse the presentations of the two parts of the webinar. We checked the audio-visual material so that everything is ready for the webinar.

30th Partnership Meeting Patras Medicine – MetaThess

Date: 05/09/2022

In this meeting, 4 members from the Patras Medicine team and 2 from the MetaThess team participated.

This is the last meeting between the two fundraising subgroups.

All members of Patras Medicine and the MetaThess fundraising/entrepreneurship subgroup joined the meeting to present the final result of their fully developed business plan.

Each subgroup gave the other final advice regarding the outcome of their work.

31st Partnership Meeting Patras Medicine – MetaThess

Date: *15/09/2022*

In this meeting, the members of each team responsible for partnership communication participated.

We discussed and organized the activities that we are going to do during our visit to Thessaloniki.

After that, the members responsible for social media from each team, joined our meeting, to organize a collaboration together.

We had already contacted teams that compete on the same tracks as ours – diagnostics – and we gathered some pictures from their laboratories.

We made a Poster showing the photos of the teams and the disease they diagnosed. This poster was published on the social media of both groups.

32nd Partnership Meeting Patras Medicine – MetaThess

Date: 01/10/2022

In this meeting, the members of each team responsible for partnership communication participated.

We had a scheduled meeting with an EMA Representative.

- ❖ He informed us about the applicable laws concerning medical devices for laboratory tests considered IVDs (in-vitro Diagnostics).
- ❖ He recommended us contact the Ministry of Health and more specifically the HTA - Health Technology Assessment to inform us about the process we need to follow.

After the meeting, we looked for the scientific articles to which he referred us to better understand the legislation and the procedure that governs our diagnostic tool.

33rd Partnership Meeting Patras Medicine – MetaThess

Date: 03/10/2022

In this meeting, 3 members from the Patras Medicine team and 2 from the MetaThess team participated.

This is the third part of our cooperation on the dry lab part.

The last part of our dry lab collaboration was reaction kinetics analysis.

3rd Dry Lab Part:

- ❖ iGEM MetaThess team informed the Patras Medicine team about the importance of predicting the fluorescence signal in their simulations.
- ❖ iGEM MetaThess team provided the Patras Medicine team with the MATLAB script to analyze the system.
- ❖ iGEM MetaThess team gave their insights for constructing a simple but also accurate model.

34th Partnership Meeting Patras Medicine – MetaThess

Date: 07/10/2022

In this meeting, the members of each team responsible for partnership communication participated.

This is our last meeting for our Partnership journey!

We checked our WIKI pages and the information we exchanged during all our meetings and calls.

It's been a long road, but we sure gained so much from this ongoing Collaboration as partners.