



Second All WGs UNGAP Meeting
12th – 13th February 2019



Sofia, Bulgaria



Funded by the Horizon 2020 Framework Programme
of the European Union

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Word of Welcome

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Dear participants,

We are pleased to welcome you in Sofia, the capital of Bulgaria, for the second meeting of the European Network on Understanding Gastrointestinal Absorption-related Processes (UNGAP). We hope to sustain the high standards set by the first meeting in Leuven, Belgium, which was attended by more than 110 participants and included 19 lectures and 40+ posters by renowned experts. The scientific discussions that were initiated during the first meeting will continue in the framework of the four major challenges that UNGAP aims to address in the different working groups (WGs): differences between specific patient populations (WG1), regional differences along the gastrointestinal tract (WG2), the intraluminal behaviour of advanced formulations (WG3), and the food-drug interface (WG4). Expert talks by UNGAP members and external invited scientists will provide insight into the latest advancements on the topics of interest, whereas separate work group sessions and poster presentations will offer a platform for focused discussions on specific problems. PhD students will have the opportunity to present their work and network with top experts in their field. These activities are aimed to stimulate the cross-field dissemination of knowledge and thereby advance our understanding of drug absorption in the gut.

Keynote lectures relevant to WGs will take place in Vitosha hall on Tuesday (12th February) morning, followed by a light lunch in the poster area. The participants will then split into 4 groups for the parallel WG sessions (halls inside the hotel) and will reconvene in the afternoon for an all-WG discussion in Vitosha hall. The official conference dinner will be held in the restaurant of hotel Vitosha on Tuesday evening. On Wednesday (13th February), hot-topic presentations by all WGs will be presented in Vitosha hall.

UNGAP would not have been possible without the support of the European Cooperation in Science and Technology (COST) program, for which we are very grateful.

We hope that you will have fruitful discussions during the meeting and will enjoy your visit in Sofia!

Welcome to Sofia and to the UNGAP community!

The organizing committee

Local organizing committee

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Zahari Vinarov
Chair
Organizing Committee



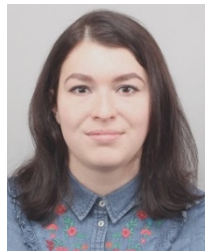
Liliya Vinarova
Registration, Booklet



Fatmegyul Mustan
Registration, Booklet



Savina Paunova
Registration



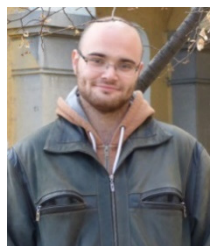
Nelly Stanoeva
Registration



Delyan Krustev
Booklet



Vladimir Katev
Registration



Yohan Georgiev
Registration

Tuesday, 12th February

8:30 Registration

9:00 Welcome

9:15 – 12:30 Keynote lectures (All Work Groups)

Vitosha hall, outside the Hotel

12:30 – 14:00 Lunch & Poster session

Vitosha hall, outside the Hotel

14:00 – 16:00 Parallel Work Group sessions

Halls inside the Hotel

16:30 – 17:30 Pearls of Wisdom: discussion on “gastro-retention doesn’t work?”

Moderator: Prof. Clive Wilson

Vitosha hall, outside the Hotel

19:00 Official dinner, *Vitosha Hotel Restaurant*

Wednesday, 13th February

Venue: Vitosha Hall (outside the Hotel) all day, all WGs

8:30 – 10:00 WG1 meeting: How the differences in GI absorption of special populations impact the stages of drug product development

Chair: Dr. Katarina Vucicevic

10:15 – 11:45 WG2 meeting: Regional differences along the GI tract

Chair: Prof. Maria Vertzoni

11:45 – 12:45 Lunch & Poster session

12:45 – 14:15 WG3 meeting: Intraluminal behaviour of advanced formulations

Chair: Prof. Caitriona O'Driscoll

14:30 – 16:00 WG4 meeting: Food-drug interface

Chair: Prof. Maura Corsetti

16:00 – 16:30 General discussion and Wrap up of meeting

Prof. Christos Reppas

The main hall where most of the UNGAP meeting and events will take place is **Vitosha Conference Hall**. This hall is located in a building across the street, right next to the hotel (1-2 min walking distance). One can get there easily by exiting the hotel, turning right and walking to the building across the street, where **Vitosha Conference Hall** is located (see the map below).

How to get there: Vitosha Hall location

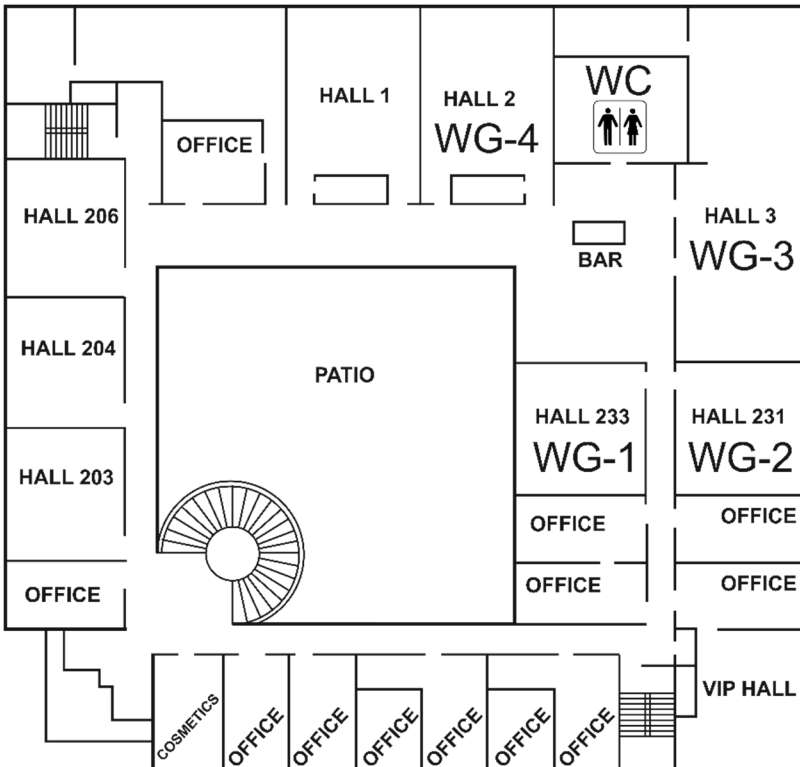


Conference rooms for the parallel WG sessions (Tuesday, 12th February, after lunch)

On Tuesday (12th February) after lunch, the parallel WG sessions will take place **on the second floor of the Hotel**, which can be accessed by stairs and elevator. Signs will indicate the location of the conference rooms inside the hotel.

WG1 – Hall 233
WG2 – Hall 231

WG3 – Hall 3
WG4 – Hall 2



Tuesday 12th February (morning session)

Vitosha Conference Hall (outside the hotel)	
8:30 – 17:00	Registration
9:00 – 9:15	Welcome and introduction <i>Prof. Patrick Augustijns, Prof. Peter Kralchevsky</i>
9:15 – 10:00	Effect of food structure on nutrients release and lipid digestion <i>Dr. Myriam Grundy</i> (Reading University; Infogest)
10:00 – 10:45	Administering oral drug products in specific populations <i>Dr. Hannah Batchelor</i> (School of Pharmacy, University of Birmingham)
10:45 – 11:00	Coffee break
11:00 – 11:45	The challenges and opportunities of drug development for multimorbid patient populations <i>Prof. Sven Stegemann</i> (Graz University of Technology)
11:45 – 12:30	Challenges and future perspectives of amorphous solid dispersions <i>Prof. Guy Van Den Mooter</i> (University of Leuven)
12:30 – 14:00	Light Lunch & poster session (Vitosha Hall) "Meet the expert" lunch for PhD students

Tuesday 12th February (afternoon session)

<u>Parallel WG sessions:</u>	
WG1, Hall 233	WG3, Hall 3
WG2, Hall 231	WG4, Hall 2
These halls are inside the hotel!	
14:00 – 14:05	Introduction by WG leads
14:05 – 15:05	Presentations by PhD students; PYPOM session (WG1, WG2, WG3)
15:05 – 15:35	Small group discussions related to the WG future: <ul style="list-style-type: none">➤ Best practices➤ Short-term scientific missions (STSMs)➤ Research collaborations➤ New project proposals
15:35 – 15:50	Presentation of the results of the small group discussions
15:50 – 16:00	Preparation of WG summary to be presented on Wednesday


<u>All-WG session</u>	
Vitoshka Hall, outside the hotel	
16:00 – 16:30	Coffee break
16:30 – 17:30	Pearls of Wisdom: discussion on “gastro-retention doesn’t work?” <i>Moderator: Prof. Clive Wilson</i>
19:00	Official dinner <i>Vitoshka Hotel Restaurant</i>

Wednesday 13th February (morning session)

<u>All-WG session</u> Vitosh Hall (outside the hotel)	
WG1 meeting: How the differences in GI absorption of special populations impact the stages of drug product development Chair: <i>Dr Katarina Vucicevic</i>	
8:30 – 10:00	Beyond the pill: How the differences in GI absorption of special age populations impact the drug product design <i>Dr Mine Orlu, School of Pharmacy - UCL</i> Beyond the pill: How the differences in GI absorption of special age populations impact the drug exposure and response <i>Dr Katarina Vucicevic, Faculty of Pharmacy, University of Belgrade</i> Update on current and future WG activities
10:00 – 10:15	Coffee break
WG2 Meeting: Regional differences along the GI tract Chair: <i>Prof. Maria Vertzoni</i>	
10:15 – 11:45	Physicochemical characteristics, viscosity, and volumes along the GI lumen of humans vs. dogs and the usefulness of canine data in the development of oral drug products for humans and for dogs <i>Prof. Christos Reppas, Faculty of pharmacy, University of Athens</i> Regional intestinal permeability in humans: implications for modified-release dosage forms <i>Dr. David Dahlgren, Uppsala University</i> Update on current and future WG activities

Wednesday 13th February (afternoon session)

11:45 – 12:45	Light Lunch & poster session "Meet the expert" lunch for PhD students
WG3 Meeting: Intraluminal behavior of advanced formulations <i>Chair: Prof. Caitriona O'Driscoll</i>	
12:45 – 14:15	The impact of excipient-bile interactions on the solubility of poorly-water soluble drugs <i>Dr. Zahari Vinarov, Faculty of Chemistry and Pharmacy, Sofia University</i> Oral protein delivery-learning from the TRANSINT EU Consortium <i>Dr. Matilde Duran</i> Update on current and future WG activities
14:15 – 14:30	Coffee break
WG4 Meeting: Food-drug interface <i>Chair: Prof. Maura Corsetti</i>	
14:30 – 16:00	The utility of a pig model for predicting food dependent oral bioavailability in humans <i>Dr. Brendan Griffin</i> What do we know about the gut response to a meal in humans <i>Prof. Maura Corsetti</i> Update on current and future WG activities
16:00 – 16:30	General discussion and meeting wrap up <i>Prof. Christos Reppas</i>



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- Титруване:
потенциометрично и Karl Fischer
- Волтаметрия
- Йонна хроматография
- pH, йон метри и кондуктометри
- Инструменти за измерване на стабилност
- NIR и RAMAN спектроскопия
- on-line анализатори
- Потенциостат / галваностати

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Poster presentations at Vitosha Conference Hall

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No.	Firstname	Lastname	WG	Poster title
WG1: Differences between specific patient populations				
1	Marija	Jovanovic	WG1	Application of population pharmacokinetic modeling approach in the assessment of drug exposure in special patient populations
2	Marton	Kiss	WG1	Drug dosing optimisation using pediatric intestinal tissue
3	Malgorzata	Sznitowska	WG1	Oral paediatric antibiotics - the need for better pharmaceutical care
4	Maiara	Montanha	WG1	Reduced oral bioavailability of Amoxicillin tablets compared to suspensions in RYGB bariatric subjects
5	Anna	Stachowiak	WG1	The assessment of the pharmacokinetics of tramadol and its active metabolite (O-desmethyltramadol) in extremely obese patients.
6	Erik	Wollmer	WG1	A novel patient-specific in vitro drug release model incorporating physiological features relevant to oral drug absorption in Parkinson patients
7	Lisa	Freerks	WG1	A toolbox for simulating gastrointestinal conditions in children: I. Media to simulate typical paediatric breakfasts
40	Maja	Kristensen	WG1	Application of microcontainers for targeting intestinal lesions found in inflammatory bowel disease

WG2: Regional differences along the gastrointestinal tract				
8	J. Arturo	García-Horsman	WG2	Animal SPECT/CT and drug absorption. (Preliminary)
9	Elena	Toader	WG2	Drug absorption and therapeutic implications in inflammatory bowel disease
10	Sarinj	Fattah	WG2	Effect of a stimulated intestinal fluid on permeability of [3H]-octreotide across human and rat intestinal tissue
11	Christian	Jede	WG2	Implementation of biorelevant bicarbonate buffer in a GI transfer model
12	Fiona	McCartney	WG2	Investigation of different intestinal permeation enhancers ex vivo and in vivo
13	Mare	Oja	WG2	Logistic classification models for pH-permeability profile to improve prediction of absorption in gastrointestinal tract
14	Khaled	Heissam	WG2	Measuring fasted state gastric motility before and after a standard BA/BE 8 oz drink of water: validation of new MRI imaging protocols against concomitant perfused manometry in healthy participants
15	Margherita	Falavigna	WG2	Mucus-PVPA: an in vitro permeability screening tool for the investigation of intestinal drug absorption

Poster presentations at Vitosha Conference Hall

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16	Glenn	Lemmens	WG2	Pharmacokinetic disposition of COXIBS for the prevention/treatment of colorectal cancer
17	Marlies	Braeckmans	WG2	The influence of gastric motility on intraluminal drug behavior
43	Natashia	Larsen	WG2	Achieving targeted release of freeze-dried probiotic strains by granulation, extrusion, spheronization and fluid bed coating
WG3: Intraluminal behaviour of advanced formulations				
18	Caroline	Alvebratt	WG3	A Dissolution-Digestion-Permeation Assay to Investigate the Performance of Advanced Drug Delivery Systems
19	Grzegorz	Garbacz	WG3	Bio-predictive dissolution testing of nicotinic acid
20	Mette Sloth	Bohsen	WG3	Co-existing colloidal phases of human duodenal aspirates: Intraindividual fluctuations and interindividual variability in relation to molecular composition
21	Vladimir	Katev	WG3	Albendazole Solution Formulation via Vesicle-To-Micelle Transition of Phospholipid-Surfactant Aggregates
22	Ann-Christin	Jacobsen	WG3	High-throughput dissolution/permeation screening of enabling formulations: Testing a novel two-compartment microtiter plate approach
23	Linas	Petkevičius	WG3	Mathematical modelling of drug release from multi-layer capsules

Poster presentations at Vitosha Conference Hall

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24	Niklas	Koehl	WG3	New insights into using lipid based suspensions for 'brick dust' molecules: case study of Nilotinib
25	Jana	Kubackova	WG3	Oral delivery of oligonucleotides for local treatment of inflammatory bowel disease
26	Gaohua	Lu	WG3	PBPK Application Examples
27	Jadwiga	Paszowska	WG3	Predictive dissolution testing - novel methodology
28	Flavia	Laffleur	WG3	Smart and advanced polymeric formulations
29	Janneke	Keemink	WG3	The in vitro lipolysis-permeation assay predicts in vivo performance of carvedilol administered with lipids in dogs
39	Jens	Ceulemans	WG3	Early development of a poorly-soluble oncology drug candidate: proceeding with a conventional or enabling formulation?
44	Georgia	Tsakiridou	WG3	A simple rheological method for polymer selection in amorphous drug solid dispersions
WG4: The food-drug interface				
30	Radić	Kristina	WG4	Comparison of different in vitro tools for prediction of intestinal permeability of olive derived nutraceuticals
31	Annalisa	Maruca	WG4	Drug-food interactions evaluated by computational methods

Poster presentations at Vitosha Conference Hall

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33	Hulya	Buyukkestelli	WG4	Effect of food on oral drug absorption and bioavailability
34	Raffaella	Catalano	WG4	Food-drug interactions evaluated by computational methods
35	Tjaša	Felicijan	WG4	Glass-bead flow through dissolution system: design and applicability
36	Visnja	Stepanic	WG4	In silico predictions of ADME/Tox features of herbicides
37	Simone	Hansmann	WG4	Integrating <i>in vitro</i> data into an <i>in silico</i> model to predict the influence of formulation changes: a Merck case example
38	Aleksandar	Cvetkovski	WG4	Screening for nutraceutical-drug interactions toward the noncovalent interactions of their solid binary systems (Case study on Piperine)
41	James	Butler	WG4	How effective are biopharmaceutics classification systems (BCS, DCS, BDDCS) at predicting food effects?
42	Michael	Grimm	WG4	The application of MRI to study gastric emptying in the fed state

Transportation to and from Sofia Airport

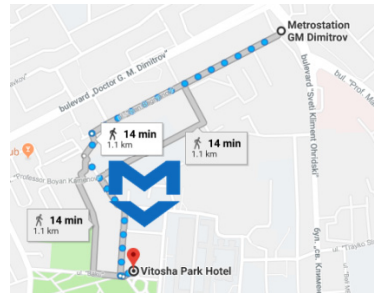
Inter-Terminal Transfer



Sofia Airport provides free-of-charge transportation between Terminal 1 and Terminal 2 at every 30 minutes between 07:00 and 19:00 local time, with no intermediate stops on the route. The shuttle bus stops in front of both terminals are indicated with signage and marking on the road pavement.

Transportation from Terminal 2 to Park Hotel Vitosha via Metro

The metro station at Sofia Airport is located in the eastern part of Terminal 2. You can reach it by following the floor markings in blue at the public area of Terminal 2. The nearest stop to your Hotel is GM Dimitrov, and after that you have a 15 min walk to the hotel.



Transportation to Park Hotel Vitosha organized by the hotel

Airport-to-hotel transfer is included in the room price for participants that have booked a room in hotel Vitosha by sending an e-mail to reservations@vitoshaparkhotel.com and have mentioned the booking reference "COST-UNGAP 11-13.02.2019" in the body text of the e-mail.

Note that airport-to-hotel transfer will be provided only to participants who have sent their flight information to reservations@vitoshaparkhotel.com and have received official confirmation for the transfer from the hotel staff.

Getting to and from the airport by Taxi

For your comfort and safety, we recommend the services of the taxi operator OK Supertrans AD as contractual partner of Sofia Airport. You can request the service at the offices of **OK Supertrans** in the Arrivals of Terminal 1 and Terminal 2. And the floor markings in yellow will lead you to the taxi stand area.



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www.oktaxi.net

IMPORTANT!

We recommend that you do not use taxi services offered outside the office of the taxi operator or in front of the terminal to avoid the risk of abuse.

When you are checking out of the Hotel and heading to the Airport, you can ask the Hotel Reception to call you a taxi.

The cost of a Taxi should be under 15 Levs BGN (7.50 EUR) 1 EUR = 2 Bulgarian Levs

For more transportation options to and from the Airport, you can check: <https://www.sofia-airport.bg/en/passenger>

Please note that the costs for transport by taxi are NOT REFUNDED by COST, unless in special circumstances (see COST Vademecum)

Sightseeing in Sofia

The beginning of your tour of Sofia starts at the Metro station “Sofia University Kliment Ohridski”. You can go there by going to Metro station “GM Dimitrov” (see page 28) and getting on a train for “Obelya” for 3 stops. Also a Taxi is always an option, the cost should be under 10 BGN (5 EUR).

When you get there the first thing you will see the main building of Sofia University.



The University was founded in 1888 and was originally named after the brothers Evlogi and Hristo Georgiev who donated the land and funds for the construction of the university building. Their statues are seated outside the main entrance. The international design competition was originally won by Henri Breansson in 1907, his designs were however later modified by Yordan Milanov. Nowadays only part of the actual university campus is based here, with many faculties located around the city.

1. Then you will head to Alexander Nevsky Cathedral

Named after Alexander Nevski, a Russian Tsar who saved Russia from invading Swedish troops in 1240 and the patron saint of Tsar Alexander II, who was also referred to as Bulgaria’s Tsar Osvoboditel (Liberator), since it was his troops that finally brought about Bulgaria’s liberation from Ottoman rule. Some of Russia and Bulgaria’s best artists of the time worked on the interior with its five aisles and three altars. Built between 1904-1912 in the Neo Byzantine style, typical for Russian churches in the 19th century, the cathedral is 76 metres long and 53 metres wide and is said to hold up to 7000 people. The belfry is 52 metres high and houses 12 bells. Working hours: 7:00 – 18:00



2. Your next stop is Tsar Osvoboditel (Liberator) Monument and the Parliament

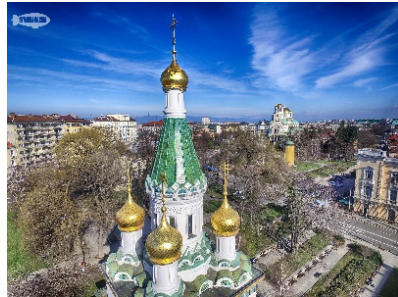
This fine bronze statue portrays the Russian Tsar Alexander II on horseback and is a gesture of gratitude to the Russian Tsar and his troops. In front of the bronze statue is the building of the National Assembly.



3. On your way to Metro station “Serdika” you will pass through a couple of landmarks.

The Russian Church

This small decorative church with its golden onion domes was built between 1912 and 1914, (by many of the same workers from the nearby Nevski Cathedral) to appease a Russian diplomat afraid to worship in Bulgarian churches. The church is named after St. Nikolai ‘the miracle maker’. To this day wishes are written on slips of paper and placed in the wooden box by the white marble sarcophagus of Bishop Serafim (1881 – 1950), who is buried in the crypt.



The Bulgarian Presidency

Today the Bulgarian president has his official chambers here facing the archaeological museum and his guard of honor has been photographed by many a tourist. The guards change every hour on the hour but if you want the full pomp and ceremony be here on the first Wednesday of the month at 12:00 when you can see the official changing of the guards complete with music, shouting and weapon brandishing.



Complex Ancient Serdika

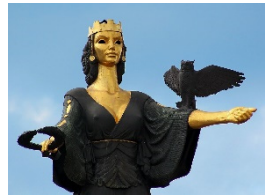
The Church of St George is an Early Christian red brick rotunda that is considered the oldest building in Sofia, the capital of Bulgaria. It is situated behind the Sheraton Hotel, amid remains of the ancient town of Serdika.



Built by the Romans in the 4th century, it is a cylindrical domed structure built on a square base. It is believed that it was built on the site of a pagan temple, though the original purpose of the building was for public use. The building is famous for the 12th-, 13th- and 14th-century frescoes inside the central dome. Three layers of frescoes have been discovered, the earliest dating back to the 10th century. Magnificent frescoes of 22 prophets over 2 metres tall crown the dome. Painted over during the Ottoman period, when the building was used as a mosque, these frescoes were only uncovered and restored in the 20th century.

Saint Sofia Statue

Towering above the intersection of Maria Louisa Blvd and Todor Alexandrov Blvd in the commercial heart of the city, Sofia was erected in 2001 – not without some controversy – replacing Lenin’s monument, which was removed from the same spot at the time of the democratic changes. Eight meters in height, the copper and bronze statue by the sculptor Georgi Chapkanov, stands on a 16 meter high pedestal. Adorned with the symbols of power (crown), fame (wreath) and wisdom (owl), the crown is also a reference to the Goddess of Fate – Tjuhe, inspired by the old emblem of Sofia dating back to 1900.



4. Your last stop on the tour is St. Kyriaki Church (St. Nedelya)

From here you can explore the different cafes and restaurants on **Vitosha Boulevard**, which is the main pedestrian street in the heart of Sofia. If you want to see more of Sofia, at the end of Vitosha Boulevard there is a park across the street in which you can find the **National Palace of Culture**.

To go back to the Hotel you can get a Metro from Serdika Station Line 1 to Mladost, your stop is the 4th – GM Dimitrov Station.

To get a Metro from the National Palace of Culture, go to NDK station, which is at the intersection where you crossed from boulevard Vitosha to the park, and get a train to Obelya for one stop (Serдика Station), this is Line 2 of the Metro, so you will have to transfer to Line 1 and get a train to Mladost for four stops to GM Dimitrov Station.

The price of the Metro is 1.60 Levs, tickets can be bought at the vending machines at every entrance or at the cashiers boot next to the barriers. Also you can buy a daily pass from the cashier for 4 Levs.



Participants list

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No.	Last name	First name	E-mail	Affiliation	Country
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