

Dedicated Protection Concept: 529-0837-01L Biomicrofluidic Engineering HS2020

Please read the ETH Covid-19 information and instructions carefully:

Protection concept for teaching:

<https://ethz.ch/content/dam/ethz/associates/services/lehre/lehrbetrieb/files/schutzkonzept-lehre-hs2020-en.pdf>

Corona: Return to the new normal operation or Master Plan Version 5:

https://ethz.ch/content/dam/ethz/associates/services/coronavirus/200819_Phase330_Masterplan_Final_EN.pdf

These general rules and measures must always be followed. Further, as stipulated by the Executive Board, each group or service unit needs a protection concept for office and laboratory occupation. This concept specifies what occupation limits and distancing rules must be followed. The protection concept for the deMello groups laboratories can be found in the Appendix I. A separate and dedicated protection concept must be drawn up for courses (e.g. excursions, field courses, internships) which are characterized by a high level of student interaction. Hence, this document describes the specific safety precautions and rules for 52-0837-01L Biomicrofluidic Engineering HS2020, which are valid for the whole duration of the course (15 Sept. to 17 Dec. 2020).

The dedicated protection concept detailed herein applies to the practical projects that are part of this course, and must be followed by students and mentors. The practical projects constitute a design-make-test style task for a small group of students (ca. 5 members), that runs for the whole semester. The groups are mentored by two members of the deMello group (a postdoc, and a PhD student), who oversee practical work in the group labs, and steer general project-based learning. Lab-based work will run to ca. 3 hours per week.

General Guidelines:

- Students who do not follow the guidelines can be excluded from the projects.
- In principle, students should only be on campus when a physical presence is necessary.
- The distance rules set by the FOPH must always be observed as far as possible.
- A general obligation to wear a protective mask applies within all ETH buildings. The obligation to wear a mask also applies for the entire duration of the projects.
- It is important to maintain good hand hygiene (regular washing of hands with soap and water)
- Hand and surface disinfectants will be provided in the laboratories.
- The projects may only be completed by registered students who have been assigned to a group.
- Students who belong to a risk group are welcome to participate in the projects. However, they will be assigned non-laboratory-based practical work (e.g. programming, simulation, data analysis). Students who fall into the risk category should inform their project mentors, and the practical projects coordinator (philip.howes@chem.ethz.ch).
- Students with any symptoms of Covid-19 (even mild) are not allowed to attend the laboratories and should contact their mentors and projects coordinator.

Space Occupancy

- As per the main deMello group protection concept, laboratories F106, F114, F120 and D112 (area of 67 m² each), according to the ETH safety rules, may hold up to 4 people at a time (excluding the office spaces adjacent to these lab spaces).
- Office/laboratory space F104 may be occupied by up to 6 people, in total.
- The BME students will be booked into this system following the group's protection concept, and it will be the responsibility of the project mentors to ensure all activity and interaction are logged in the dedicated Google calendars.

Safety Rules

- Students and project mentors will wear face masks during their whole time of interaction, inside and outside of the labs.
- Social distancing (1.5 m) will be followed whenever practically possible.
- Project meetings with the group and mentors will predominantly be held online.
- Only practical work will be performed within the rooms of the deMello group. All other project tasks will be performed in the student's dedicated study areas.

Weekend Working

Masters students of the BME course will not be permitted to work at the weekends.

Protective Equipment

Goggles, gloves, face masks and lab coats will be worn at all times while working in the labs. Lab coats must not be worn in the corridors, or moved between labs.

Appendix I: Main deMello Group Protection concept

As stipulated by the Executive Board, each group or service unit needs a protection concept for office and laboratory occupation. This concept specifies how occupation limits and distance rules can be followed.

Space occupancy

- Laboratories F106, F114, F120 and D112 (area of 67 m² each) according to the ETH safety rules may hold up to 6 people at the same time. Four in the laboratory space and two in the designated office space.
- Office/laboratory space F104 and F143 may be occupied by up to 6 people. While offices on the left side of the corridor may be occupied by up to 2 people.

Safety rules

- Social distancing (2m) has to be followed at all times. If this is not possible, occupancy of the respective space will be lowered, or face masks will be used for personal protection.
- In the corridor offices 2 people may be simultaneously present, seated at opposite ends of the room. For example, Alessia and Xiaobao or JK and Yanming. The rooms need to be aired every hour for 5 to 10 min.
- In the lab office space 2 people may be present simultaneously, seated on opposite sides of the room. This means only desks facing the wall will be used. For example, Julie will use my desk instead of hers and Shankun will use Ankit's desk instead of his.
- In the offices F104 and F143 please make sure is one free desk between you and your next neighbor, and you don't sit back to back. For example, Ying and Tomas cannot sit at their desk at the same time, likewise Phil and Kamil. Memo and Yingcao may be in the office while others are present as there is 2m space in between their desks and the next occupied desk.
- Since we will share desk space please wipe the desks with disinfectant after you finish using them. The same goes for the laboratory spaces. We have enough disinfectant provided by SGU, and we can also make some of our own.

Occupancy during weekend

Please be aware that if you plan to work on the weekend you need to have a buddy and you need to book the corresponding setup/office. Please make sure you do that before the end of the week for the next week, otherwise I will delete weekend bookings that don't comply with the rules.

Protective equipment

Goggles as well as gloves are mandatory at all time while working in the lab. Lab coats are mandatory in the Chemistry lab and Biolab, and in F106 when working with toxic solutions such as silane (such work also needs to be done in the fumehood not any of the laminar flowhoods). Please do not take lab coats from one lab to another, especially from the Biolab to other labs.

Supplement

The occupancy described in the document is booked via the weekly occupancy plans via link (to document on google docs) provided at the beginning of each week. Through these plans the occupancy can be controlled and contacts can be traced back afterwards.