



Photo: Stefan Zimmerman

# A guide for working in Biomedicum

Facility Management Biomedicum



**Karolinska  
Institutet**

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# Welcome to Biomedicum

This introduction manual has been created for those who work at Biomedicum and contains practical information about the building, common areas, laboratory routines, safety, waste handling, Facility Management and much more.

Good luck with your work!

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## Biomedicum – the building

### Floor 1

On the 1st floor there is a public car garage. Max height is 2.10m. From the garage there is an elevator to floor 3. Refer your guests or service personnel here. Permits for staff parking can be picked up at the reception on the 3rd floor.

### Floor 1,5

With entrance from Solnavägen 7 is Biominicum, a public lab. Here, school classes and other visitors/delegations can visit a 'real' laboratory to learn more about the business. Visits to Biominicum must be pre-booked. Contact the reception for more information.

### Floor 2

Floor 2 include the Facility Management (FM) office, the goods reception, a workshop, bicycle garage, storage space, changing rooms, darkrooms, freezer facilities, waste room, Supply Center, dishwashing- and sterilization facility, Bio-medikum Imaging Core (BIC) and a culvert to BioClinicum (the Karolinska University Hospital research building).

### Bicycle garage

The entrance to the bicycle garage is located at Solnavägen 7. In the bicycle garage it is possible to park bicycles and electric scooters for the day. Longer storage is not allowed.

This entrance is only to be used to access the bicycle garage and should not be used to enter Biomedicum.

Note that bicycles and electric scooters are not allowed in other premises in Biomedicum.

### Floor 3

Biomedicum's main entrance is located on the 3rd floor. This floor is accessible to the public and there is a reception, a café, lecture halls and more.





### **The reception**

Biomedicum's reception is staffed on weekdays between 07:00 and 16:00. Deviations may occur.

Reception: 08-524 864 00

Security: 08-524 864 47

The reception staff answers questions about Biomedicum and refers to the right person or premises, handles access permissions, temporary access cards for visitors and much more. Here you can also get help with booking a lunchroom, the Faculty club, the mingle area on floor 3, or Biominicum. At the reception there is also IT support available at specific times.

### **IT-support**

Staff from the IT-support are at the reception desk weekdays 11.00-13.00. For more information visit "IT Support" on the KI staff portal.

### **Administration**

Administrative staff ie. finance, HR, course managers and communicators from the departments are in quarter A3. For more information, see Biomedicum's staff page, "Administration in Biomedicum".

### **Café Biomedicum**

Lunch or coffee can be enjoyed at Café Biomedicum. Information about opening hours is available on site.

## **Floor 4-9**

On floors 4-9 there are research quarters with laboratory activities as well as coffee niches and meeting rooms.

On the 4th floor there is a lunchroom and viaducts (skyways) to other KI buildings, e.g. BioClinicum, KMB and the Wargentin building.

## **Floor 10**

On the 10th floor there are meeting rooms, two lunchrooms and the Faculty Club.

### **Access to Biomedicum**

To get access to the Biomedicum premises you must have your workplace in the building or be affiliated with a person/ research group that is located here. A passed laboratory safety test is also required. The HR department provides the necessary information and approves the access.

More information about the laboratory safety test can be found on the KI staff page, "KI's Laboratory safety introduction".

### **Meeting rooms**



Biomedicum has an auditorium and several rooms for lectures or meetings.

The auditorium and the lecture halls on the 3rd floor are booked through the department's administrator. Contact information is available at the Biomedicum staff page, "Book meeting rooms in Biomedicum".

Note that the doors to the lecture halls open at the booked time. If you want access to the room before the meeting starts, be sure to book more time.

The meeting rooms on floors 4-9 are booked via Outlook or directly via the digital screens located outside the meeting



rooms. FM provides material for the whiteboards and the cleaning company takes care of the daily supervision of the rooms.

### Equipment

The auditorium and the lecture halls contain different technical equipment for digital meetings depending on size and demand. Information about how the rooms are equipped can be found at the Biomedicum staff page, "Book meeting rooms in Biomedicum".

There are several movable 50" touch screens, available for everyone in the house, that you can borrow for your presentation.

### Error reports of equipment and furnishings

Error reports of technical equipment as well as furniture, whiteboard etc. are made via the QR-code in the room or directly on the booking screen outside of the meeting room. The error reports are sent to FM Helpdesk for handling.

### Break, mingle, lunch and party

In Biomedicum there are several areas for social activities.

### Catering

All catering (food, drinks, snacks, and coffee) must be ordered from KI procured companies. Order via KI staff portal, "Order catering".

Note that KI rules on alcohol consumption must be followed at Biomedicum.

### The Faculty club

The Faculty club on the 10th floor is designed to facilitate interaction and collaboration in a relaxed environment. The room can accommodate 76 persons and

can be booked and used for various activities such as:

- Group-, team- or project meetings
- Seminars
- Receptions after thesis defense
- Pubs

The Faculty club can be booked free of charge via the reception at floor 3 or [reception@ki.se](mailto:reception@ki.se). Note that a fee will be added when in need of a security guard.



### Coffee niches

On each floor between the quarters there are coffee niches designed for coffee breaks or for socializing. The coffee machines are cleaned and refilled daily. FM also refills milk, tea, and consumables.

It is not allowed to eat food at the coffee niches, use the lunchrooms instead.

### Lunchrooms

There is a total of three lunchrooms, one on floor 4 and two on floor 10. From the lunchrooms on the 10th floor, you have access to the Biomedicum roof terrace.

The lunchrooms are equipped with plates, glassware and cutlery, refrigerators, coffee machines and microwaves. They can be used for parties with many guests and if you want to serve food. It is possible to arrange dissertation parties, research group parties, after work or similar in the lunchrooms. Lunchrooms can be booked

free of charge via the reception at floor 3 or [reception@ki.se](mailto:reception@ki.se). Note that a fee will be added for security guard, if needed.

The lunchrooms are supervised daily by both FM staff and the cleaning company.

### **Mingle area on floor 3**

On floor 3 there is an area available for exhibits, mingle events, parties after a public defense, and more. The mingle area is ideal if you wish to accommodate external guests and visitors.

The mingle area on floor 3 is booked free of charge via the KI premises booking e-mail: [lokalbokning@ki.se](mailto:lokalbokning@ki.se).

### **Vending machines**

There are several vending machines in the house selling ready-made dishes, drinks, and snacks. Instructions on how to shop are available on site.

## **Facility Management**

Facility Management Biomedicum (FM) is a service and support organization that performs and provides service and support for all personnel working in Biomedicum. FM is also the link between the research groups, KI Fastighetsavdelningen (FA) and the property owner Akademiska Hus (AH).

All services are provided on weekdays 08.00–16.00, unless otherwise stated. The FM office is located on the 2nd floor.

### **FM Service catalogue**

Below is some of the FM's services described. For more detailed information visit the staff portal/Biomedicum or contact staff at FM.

### **FM Helpdesk**

FM Helpdesk is the case management system that is used by the people in the house to send error reports, questions and requests related to the service in Biomedicum.

The errands that FM cannot/should not handle are directed to the correct unit. FM acts as the contact person and is responsible for feedback and follow-up for those errands.

Feedback normally takes place within 48 hours.



### **The building/premises planning**

FM handles the error reports of the building, handles the ordering and error reports of access card readers, the doors and locks, signs, coordinates minor reparations and maintenance of, amongst other things, laboratory equipment and instruments, offers coordination assistance when moving equipment, assembles furniture and shelves and more. In addition, support is provided for premises adaptations and planning.

### **Cleaning**

The cleaning of the Biomedicum premises is carried out by an external cleaning company. Complaints or requests are sent to the FM Helpdesk.

### **Dry Ice**

Dry ice (pellets and blocks) can be retrieved from floor 2, room B0281. If necessary, FM can deliver to the quarter, for more information contact FM Helpdesk.

### **Ethanol**

Ethanol can be purchased at the Biomedicum Supply Center at floor 2.

### **Fruit**

FM delivers ordered fruit baskets to the quarter. Remember to cancel the fruit delivery during longer holidays.

### **Gas handling**

FM is responsible for ordering gas from the procured suppliers and for the delivery and collection of gas cylinders to and from the gas storage rooms of each quarter. Read more about gas at the Biomedicum staff page, "Laboratory safety".



### **Goods and logistics**

Mail and parcels are delivered to Biomedicum's goods reception on floor 2, for sorting and registration. Upon arrival at Biomedicum before 15.30, mail and parcels are delivered to the quarter the same day. Later deliveries will be delivered the next weekday.

Mail can be left in the mailbox outside the goods reception (emptied weekdays) or in the quarter's mailbox for outgoing mail (emptied once per week). Outgoing

packages are left at the goods reception on the 2nd floor.

On the 2nd floor there is a packing station with packaging material for those who want to package their shipments.

### **Liquid nitrogen**

FM staff refill and handle liquid nitrogen. Place the containers that you wish to have filled in the designated location outside of the FM office, floor 2, no later than two hours before requested delivery. Last delivery is at 15:00 weekdays. Label the container with name, quarter/room, date, and time. FM staff will deliver the container to the desired quarter. If there is a need for liquid nitrogen after 15:00 weekdays, contact FM Helpdesk.



### **Purchase coordination**

Contact KI's central procurement and purchasing department for help with questions about purchases, framework agreements and procurements.

E-mail [inkopupphandling@ki.se](mailto:inkopupphandling@ki.se)

### **Pharmaceuticals and narcotics**

Pharmaceuticals and narcotic drugs can be purchased via FM's pharmaceutical managers. An order is sent in via the FM Helpdesk. Special rules apply to the purchase, handling and storage of pharmaceuticals and narcotic drugs. Deliveries must be signed out from the goods reception, and you must be able to show your ID.



### Poster printing

FM prints posters on request and delivers to the desired internal address or they can be collected from the 2nd floor (room A0262).

The cost depends on the format and size. Ordering must be done in the correct format. Orders must be placed at least two days in advance.

### Supply Center

Consumables, ethanol, and office supplies needed for daily operations can be purchased at the Supply Center. Opening hours and the product range can be found on Biomedicum's staff portal, "Supply Center in Biomedicum." All items in the Biomedicum Supply Center are procured through official agreements.

### The workshop

The workshop is located on floor 2, room A0262. FM can perform simple repairs and general workshop work and can provide with, for example, screws and fuses.

Outside of the workshop you can also find various lending tools.



## Common facilities

A common facility is an equipment or a lab that is accessible to everyone in the building. The common facilities listed below are provided by FM (including routines, introduction, and service).

There are also several Core Facilities in Biomedicum. These are not managed by FM. More information about the core facilities can be found on Biomedicum's staff page, "Common and core facilities in Biomedicum".

### The dishwashing and sterilization facility

The facility is located on floor 2, room C0233. Dirty dishes and materials/solutions to be autoclaved are collected daily at each quarter.

Clean laboratory glass, Milli-Q water, lab coats, waste containers and autoclaved materials/solutions can be found in the room for clean glassware located in the C-building on each floor.

Used lab coats are left in the waste room in each quarter. Lab coats to be autoclaved before washing should be put in an autoclave bag. The washing of lab coats is done via an external company.

## Isotope facilities

There are three common isotope labs in Biomedicum. Floor 5 (room CO511) and floor 7 (room DO711) are for isotope work with low to medium activity. The isotope lab on floor 9 (room DO911) is for isotopes with high activity.

Access to the rooms require a local license, a completed course in radiation safety, a review of KI local radiation protection rules and a local introduction by the FM radiation safety representative. More information is available at the Biomedicum's staff page, "Isotope Facilities Biomedicum" and at the KI staff portal, "Radiation safety".

## Dark rooms

Biomedicum has two dark rooms on the 2nd floor (rooms B0210 and B0213). The rooms cannot be booked in advance; usage takes place according to the drop-in principle. Respect other users by checking if the red light indicating 'busy' is on and ring the doorbell before opening the door. On a weekly basis, FM handles waste, rinses the developing machines and, if necessary, orders materials.

An introduction to the room is needed before access. To get access to the dark room contact FM Helpdesk.

## Freezer Facility

FM is responsible for the distribution of space for  $-80^{\circ}\text{C}$  freezers on floor 2 and for the distribution of racks in nitrogen-cooled isothermals ( $-186^{\circ}\text{C}$ ). To get access to the rooms with isothermals you must attend a nitrogen safety course. For more information contact FM Helpdesk.

## Laboratory safety

All laboratory work in Biomedicum is conducted in accordance with Karolinska Institutet's regulations, guidelines, and recommendations.



## Introduction

As a new employee at Biomedicum, an introduction is given by your home institution. FM participates in these introductions. In addition to these introductions, an approved laboratory safety test and a thorough lab- and group-specific introduction by the immediate supervisor, or equivalent, are required.

## Good laboratory practice

In the laboratories, it is important to follow good laboratory practice:

- It is not allowed to drink, eat, use tobacco products, or apply make-up in the laboratory.
- Leave the mobile phone outside the lab as the mobile phone can carry chemicals and infectious substances to the office, home, or surroundings.
- Personal protective equipment such as gloves and lab coats are not permitted in public areas such as stairwells, coffee niches, lifts, or offices. No door handles should be touched with laboratory gloves.

- Have good order in the work environment, work nice and tidy.
- Avoid spills, splashes, and aerosols in your work.
- Be careful when handling sharp and cutting objects.
- Handle laboratory waste safely and responsibly.
- Ask for help if uncertain about the routines.

## Controlled laboratory environments

Special access is required for work in certain controlled laboratory environments. Introductory courses and/or an approved test is required to gain access to BSL-3, virus lab, darkroom, isotope lab and room for isothermals. Contact the room manager for more information. Contact information is available at the Biomedicum staff page, "Common and core facilities in Biomedicum".

## Risk assessments

Risk assessments for work with hazardous substances should be available and followed.

- chemicals: KLARA chemical register
- biological substances: BARA-template
- human materials: HUMRA-template
- radioactive substances: RADRA-template

Karolinska Institutet conducts an environmentally hazardous notifiable activity and many of the substances (chemicals, infectious- and radioactive substances, drugs, etc.) handled in KI's laboratories are dangerous in one way or another. Before starting work with hazardous substances, the handling must be risk-assessed. Different risk assessment templates are available for different risk areas. Note that a risk assessment also

needs to be carried out in the event of changes in operations, for example in the event of changes in the premises, planning of new methods and when new equipment is purchased.

## Chemical safety

Chemical safety includes registration, storage, general handling, and disposal of chemicals. More information on chemical safety and chemical handling is available at KI's staff portal, "Chemical Safety".

Note that some chemicals require a permit, extra investigation and/or training before they can be purchased and handled. Examples of chemicals that are subject to extra rules are CMR substances, allergens, and A- and B-listed substances.

FM's chemical representative can help with questions regarding chemical handling, permits, storage, and waste. Contact information is available at the Biomedicum's staff page, "Laboratory safety".

## KLARA chemical register

KLARA is KI's chemical register. All research groups at Biomedicum have a group-specific account where the chemicals are registered. Employees who handle chemicals must have access to the KLARA chemical database. Each research group has a chemical inventory taker that carries out the yearly inventory, as well as one or more risk assessors, that can help in case there are any chemical related questions.

FM's KLARA representatives help with KLARA-questions such as creating new accounts, finding chemicals in Biomedicum and support with risk assessments. Contact information is available at the



Biomedicum's staff page, "Laboratory safety".

## Biosafety

Biosafety involves work with materials that can cause infection such as human tissues, human blood and other body fluids, viruses, prions, microorganisms, and genetically modified microorganisms (GMMs), and means protecting humans and the environment from exposure to infectious substances in the laboratory. More information about biosafety is available at the KI's staff portal, "Biosafety".

Note that certain work requires notifications/permits, extra investigation and/or training. In addition, the premises must be adapted to the work, and personal protective equipment e.g., lab coats must be used. Biomedicum has laboratories with risk classes 1, 2 and 3.

Contact the biosafety coordinator at the respective department for help with biosafety related questions. Contact information is available at the Biomedicum staff page, "Laboratory safety".



## Radiation protection

There are special rules and requirements for handling and storage of isotopes. More information can be found under the section 'common facilities', at the Biomedicum staff page "Isotope Facilities Biomedicum" and at KI's staff portal, "Radiation safety".

Contact FM's radiation safety representative if you have any questions.

## Gas

Carbon dioxide (CO<sub>2</sub>), nitrogen gas (N<sub>2</sub>), and carbogen (CO<sub>2</sub> + O<sub>2</sub>) are gases that are distributed centrally in Biomedicum. If you need to use other gases, contact FM Helpdesk.

More information about different types of gases and their risks, handling routines and storage requirements can be found at the Biomedicum staff page, "Laboratory safety".

## Flammable goods

Flammable goods must be stored in fire-rated cabinets/storages. If you need to store flammable goods in the fridge or freezer, they must be spark-free (EX-classified).

Flammable gas must be stored in at least EI 90-class cabinets/storages with ventilation.

Flammable liquid must be stored in at least EI 60-class cabinets/storages with ventilation.

Note that flammable liquids and gases should never be stored together. More information on flammable goods is available at the KI staff portal, "Flammable goods".

## Waste management

Employees at Biomedicum have an obligation to sort the waste, label it correctly and leave the waste at the correct location. Waste in Biomedicum is handled in accordance with KI's regulations, guidelines, and recommendations.

More information about the waste routines is available at the KI staff portal, "Laboratory waste" and at Biomedicum's staff page, "Waste management". FM provides the house with containers, labels, signs, and instructions.

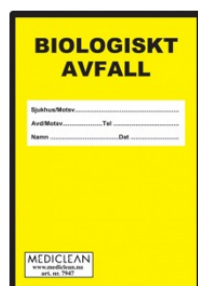
## Recycling

There are recycling rooms equipped with recycling fractions in each quarter in Biomedicum. The fractions include plastic, glass, metal, batteries, corrugated cardboard, and paper packaging. The rooms are checked daily by FM staff.

By all coffee niches and dining areas there are fractions for food, plastic and combustible waste as well as a collection of deposit cans. The money from the collection is donated to charity.

There are more recycling fractions available at the main recycling room on floor 2, including electronic waste, light sources, shrink and stretch film, and bulky waste.

## Biological waste



Biological waste includes body parts, tissues and organs from humans and animals, as well as anatomical preparations and similar.

Biological waste is placed in the black waste bins and labelled as "Biologiskt avfall".

Biological waste must always be stored frozen. Store biological material in bags in a

laboratory freezer until there is enough material to fill a waste bin.

Full waste bins are taken down to the biological waste freezer room on floor 2. Contact FM helpdesk for more information.

## Sharp and infectious waste



*Sharp waste* includes all sharp and cutting objects such as needles, syringes with a fixed needle, scalpels, needles, and slides. This is true even if the sharp is not contaminated or if its unused.

*Infectious waste* includes human blood and blood products, microorganisms, cell cultures and consumables that have come into contact with these infectious materials.

Sharp and infectious waste is placed in yellow waste bins and labelled as "Skärande/stickande smittförande avfall".

## Pharmaceuticals and cytostatic waste



Pharmaceutical and cytostatic waste includes vaccines, antibiotics, cytostatic, narcotic drugs, and objects and packaging that have come into contact with these substances.

Pharmaceutical and cytostatic contaminated waste is placed in yellow waste bins and labelled as "Cytostatika och läkemedelsförorenat avfall".

## Chemical waste

Chemical waste includes chemicals labelled with a hazard symbol, including reagent solutions, solvents, oils, paints, adhesives, disinfectants and more.

Liquid chemical waste is sorted separately from solid chemical waste.

Chemical waste is collected weekly by FM staff. Place the waste in designated ventilated cabinets. The waste must be correctly labelled with information on content, name, research group and date. If extra pick-up of chemical waste is needed, contact FM Helpdesk.

FM provides containers, bottles, cardboard boxes as well as labels for chemical waste. These are available in the room for clean glassware located on each floor.

## Radioactive waste

Radioactive waste must be disposed of in containers intended for radioactive waste, green or yellow container. These are available in the isotope laboratories or ordered via FM Helpdesk.



Separate the waste according to type of isotope and separate between liquid, solid and sealed radioactive sources. Scintillation fluid is also a separate fraction. The amount of waste must always be logged.

The waste box must be marked with a label for "radioactive waste".

Radioactive waste is collected and handled by FM staff. Pickup of waste is booked via FM Helpdesk.

Note that if the radioactive waste also contains infectious materials or chemicals, the labels for sharp and infectious or chemical waste should be used in conjunction with the radioactive waste label to ensure proper disposal after decay.

## Safety information

### Biomedicum security guard

There is a patrolling security guard available in Biomedicum at all times. **Both** the security guard and SOS alarm **112** should be contacted immediately in case of crisis, fire, threats, burglary, sabotage, and similar. It is the responsibility of the security guard to help the rescue services and to guide them to the right place in the building.

You can also contact the security guard if you are in urgent need of getting into contact with for example Akademiska Hus after office hours.

Phone: +46(0)8-524 86 447 or +46(0)70-766 26 83

### In case of emergency posters

The poster 'In case of emergency' contains contact information to FM, the security guard, and to other important contacts in case of emergency. These posters are available at the reception, by all emergency stations, by the main entrance to all quarters, and at the Biomedicum staff page, "In case of emergency in Biomedicum".

Save the contact details for the Biomedicum security guard and other important phone numbers for easy access in case of an emergency!



## Emergency stations

In every quarter there are two emergency stations with the following equipment and information available:

- Fire display
- Evacuation plan
- Contact information in case of emergency
- Vest and instruction-card for fire warden
- Rechargeable flashlight
- Fire blanket
- Fire extinguisher
- First aid (band-aids, pressure dressings and more)
- Chemical spill kit
- Emergency shower and eye

## Defibrillators

Defibrillators are available in the A-quarters stairwells, floor 4 – 10. They are also available on floor 2 (in the goods reception and at the FM office) and on floor 3 (in the reception and in the administration quarter A3).

An instruction manual and a quick summary are available by each defibrillator.

CPR courses are arranged via FM once a year but can also be booked directly via the occupational health care service if necessary. There should be staff trained in CPR in each quarter.



## Fire safety

Biomedicum follows Karolinska Institutet's rules, guidelines, and recommendations regarding fire safety.

More information about fire safety can be found at the Karolinska Institutet staff portal, "Fire Safety" and at Biomedicum's staff page, "Fire Safety".

## Fire safety training

It is mandatory for all new employees to attend Karolinska Institutet's basic fire safety training. This is both a theoretical and practical training that all staff at KI must complete within six months of employment and then repeat every four years.

New employees must also be introduced to the workplace's fire protection by the immediate superior/equivalent. A 'Checklist for introduction' is available as an aid which contains the points you as an employee need to know.

For more information about the course and the checklist, see the Karolinska Institutet staff portal, "Fire Safety".

## Evacuation

- Rescue people in immediate danger
- Call 112
- Try to extinguish the fire, if possible, without putting yourself in danger

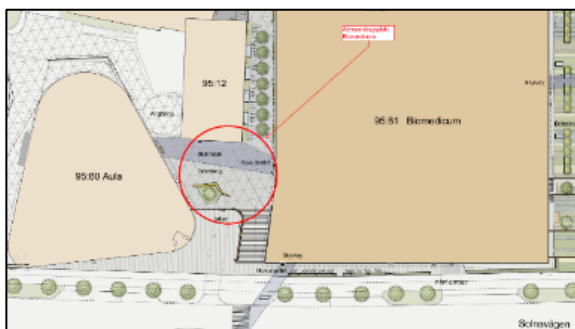
In the event of an evacuation situation, such as in the event of a fire alarm or evacuation alarm, you should first act in accordance with the KI action plan in the event of a fire alarm.

In case of fires in laboratory premises, extra care must be taken when assessing

whether extinguishing work should be carried out. If, for you, unknown chemicals, equipment, or gas cylinders are directly affected by the fire, **do not enter the premises** but instead close as many doors between you and the fire as possible and evacuate to the assembly point.

In Biomedicum there are fire displays that show where in the house/quarter an alarm has been activated. Check the displays in the event of an alarm. Evacuate the house via the nearest emergency exit and go to the assembly point. Do not use the elevators in case of a fire alarm. Wait at the assembly point for information from evacuation leaders, rescue services or Akademiska Hus technicians.

### Assembly point



The assembly point in case of evacuation is outside the main entrance of Biomedicum, Solnavägen 9 (the area between Aula Medica and Biomedicum). In case of fire- or evacuation alarm you always go to the assembly point.

### Fire wardens

In the event of an evacuation situation, the first person to reach the emergency station is the fire warden. Put on the vest and follow the instructions on the instruction card.

### Temporary evacuation stations



Temporary evacuation stations for those who for various reasons cannot use the stairs in case of evacuation, are in the A-quarter stairwells, floors 2–10 and at the auditorium. On the 3<sup>rd</sup> floor, evacuation takes place directly into the open.

Follow the evacuation signs with the wheelchair symbol. The evacuation stations are safe fire compartments and are equipped with an emergency telephone with two-way communication.

## Alarms

### Fire alarm/evacuation alarm

The building has smoke detectors that automatically trigger a fire alarm in the event of smoke. The signal for evacuation is given quarter-wise via a siren and in some rooms in combination with flashing lights.

At the entrance floor, in the auditorium and in the atrium, there is a talking evacuation alarm in Swedish and English.

The fire alarm can be triggered manually by using the red pushbuttons located in the escape routes. The alarm is automatically directed to the rescue services.

### Chemical spill alarm



In case of chemical spill, a local alarm can be manually activated in the quarter via blue push buttons located at the

main entrance. The alarm is indicated by sound and a blue flashing light. It can be deactivated by pressing the same button.

The button must be pushed for 3 seconds to activate / inactivate.

Close doors to reduce the spread of chemical fumes. Once the site has been evacuated, only qualified/trained staff may enter the premises until a chemical spill clean-up has been carried out.

## Oxygen alarm



In rooms where liquid nitrogen is handled there is an alarm that is activated if the oxygen level in the room drops too low.

The alarm is local and is indicated by sound and a blue flashing light outside of the room. It is important that the person who sees and hears this alarm checks so that no one is in danger. When the oxygen level is back to normal, the alarm switches off automatically.

## Pressure deviation alarm



Cell culture labs and isotope labs are equipped with a pressure deviation alarm. The pressure deviation alarm is local and is indicated

by a red light at affected pressure. In the event of red light, the room should not be used, and the door should be closed. When the pressure difference is back to normal this is indicated by a green light.

## Security alarms



In freezer rooms there are security alarms with red push buttons. Alarms are indicated locally by

sound and a red flashing light outside the room. The alarm signal is forwarded to the Biomedicum security guards. Alarms are reset inside each room by pressing the green reset button



At Biomedicum, a large part of the experimental research at Karolinska Institutet's Solna campus has been brought together under one roof in a state-of-the-art research environment. A shared infrastructure promotes collaboration and research across scientific disciplines, as well as interaction with clinical research.

The laboratory is one of the most modern in Europe and attracts staff from all over the world.



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