ANA Futura information meeting

June 14, 2022
Welcome!

Latest ANA Futura news – Lars Frelin, facility manager, and Marjan Amiri, laboratory safety coordinator

Core facilities at KI South, Campus Flemingsberg – Sylvie Le Guyader and Jose Inzunza

“Science in five” – Margaret Sällberg Chen, Dentmed

Questions from the staff
Latest ANA Futura news

- **Update from the Service team**
- **Fire safety**

Facility manager
Lars Frelin LabMed

Laboratory safety coordinator
Marjan Amiri LabMed
Update from the Service team

- Staffing during summer 2022

  The service team will be on-site during the whole summer but with reduced number of staff. Lead times for may be longer and some services may not be available.
New member in the ANA Futura Service Team

We wish Leo Fällström welcome to the ANA Futura Service Team. Leo is replacing Mike Davoren during his paternity leave until August 31.
Update from the Service team

- **Package deliveries and logistics**
  - Once a parcel is delivered, the Service Team sends an email to the named recipient (front desk or goods delivery room)
  - Parcels are stored at room temperature or at +4°C or -20°C
  - Please pick up your parcel at your earliest convenience
Alarm receivers for low temperature- and isothermal freezers

- A reminder to review who are the alarm receivers for low-temperature and isothermal freezers.
- If you want to update alarm receivers, notify the service team: serviceteam.anafutura@ki.se
- For more information visit the website: https://staff.ki.se/explanation-of-the-freezer-alarms-generated-in-the-freezer-facility-in-ana-futura
Update from the Service team

All you need is three phone numbers…

- ANA Futura service team: 08-524 836 41
- KI security guards: 08-524 860 60
- SOS Alarm: 112

- Please record the phone numbers in both your work and private phone! (if you have two separate)
Fire safety

Fire alarm

Look for the cause in your vicinity

No fire or visible cause

Evacuate to the assembly point
Wait until further notice from the Fire Warden, Fire Brigade or Akademiska hus building technician.

In case of fire

RESCUE people in immediate danger
CALL 112
Try to EXTINGUISH the fire

Not possible to extinguish

Close door/doors and evacuate to the assembly point.
Wait at the assembly point until further notice from the Fire Warden, Fire Brigade or Akademiska hus building technician.

Fire extinguished

Close door/doors and if possible open windows to ventilate the area of the fire. Call 112 and inform that the fire is out.
Evacuate to the assembly point and wait until further notice from the Fire Warden, Fire Brigade or Akademiska hus building technician.
Example:

Floor 05, Section D, 53108, Office area wiring closet

Floor 05, Section C, Elevator hall A emergency staircase

Floor 05, Section A2, 51426, Educational lab alarm button
**Vid utrymningslarm**

**In case of evacuation alarm**

1. Ta på dig utrymningslådavästen och ta med dig handflamman.
4. Hälsa uppsikt mot byggnaden. Sök kontakt med räddningsstyrkans räddningsledare (BLU HÅLM) eller driftstekniker från Akademiska Hus när de anländer.
5. Meddela personer på återsamlingsplatsen att byggnaden kan utrymmas, undantag efter personligt besked från räddningsstyrkans räddningsledare eller Akademiska Hus driftstekniker.

1. Put on the fluorescent Fire Warden vest and take the hand torch with you.
2. Walk through the premises and calmly tell your co-workers to evacuate through the nearest emergency exit to the assembly point. Knock on all closed doors and check cavities.
3. After the premises have been cleared, evacuates to the assembly point. Try to ascertain if anybody is missing. Coordinate with other fire wardens at the assembly point. Call 112 if this is not already done, and inform about the situation.
4. Keep lookout over the building. Seek contact with the Fire brigade commander (YELLOW HELMET) or building technician from Akademiska Hus when they arrive.
5. Announce to persons at the assembly point when it’s safe to re-enter the building, only after personal notice from the fire brigade commander or building technician from Akademiska Hus.
Questions?
Presentation: “Core facilities at KI South, Campus Flemingsberg”

Speakers:
Sylvie Le Guyader and Jose Inzunza
Core facilities on the Flemingsberg campus
Core facilities on the Flemingsberg campus
Ana Futura staff meeting 14.06.2022

Sylvie Le Guyader
Manager of the Live Cell Imaging core facility

- The KI CFs are organised in the Core Facility Community
- All KI/KS facilities on the south campus are available at https://staff.ki.se/ki-south-core-facilities
- All KI facilities (on all campuses) can be found at https://ki.se/en/research/core-facilities-for-research
- There are also a couple of facilities at KTH Flemingsberg
- The imaging facilities at Flemingsberg have a network: FMIF
220613 Flemingsberg CF

1. eHealth
2. Cell therapy and medicine development (KCC)/Vecura
3. Pathology (Feno)
4. **Live Cell Imaging microscopy (LCI)**
5. Single cell sequencing (SiCOF)
6. Animal behaviour (ABCF)
7. Bioinformatics and biostatistics (CBB)
8. Preclinical imaging (PIF)
9. Preclinical Laboratory (PKL) Portal
10. Medical image analysis and management (SMILE)
11. Pluripotent stem cell engineering (Kisco)
12. Flow cytometry (MedH Flow)
13. Electron microscopy (Emil)
14. Genomics, sequencing and bioinformatics (BEA)
15. Air-borne and non-air-borne BSL3 pathogen handling (BSL3)
16. Ana Futura X-ray irradiation facility
17. Mutation Analysis Facility (MAF)
18. Ana Futura Mass Spectrometry
19. Developmental tissue bank
20. Ana Futura microscopy
21. Pre-GMP
22. uMove

The Live Cell Imaging core facility
220613 Flemingsberg CF

FMIF
- LCI
- Jonasson
- Emil
- SMILE
- PIF

Part of campus Syd but not in Flemingsberg

SÖS research center

Non-KI CF associated to Flemingsberg
- Bioimage informatics (BIIF) (Scilife)
- Medical imaging at KTH (Jonasson center) (KTH)
- Peter Arfert workshop (including 3D printing) (KTH)

The Live Cell Imaging core facility
Presentation: “Core facilities at KI South, Campus Flemingsberg”

Speakers:
Sylvie Le Guyader and Jose Inzunza
“Science in 5”

Speaker: Professor Margaret Sällberg Chen, Department of Dental Medicine

Presentation: “Salivary IgG to SARS-CoV-2 indicates successful seroconversion and correlates to serum neutralization in mRNA-vaccinated immunocompromised individuals”

Webpage:
https://staff.ki.se/people/margaret-chen
Salivary IgG to SARS-CoV-2 indicates successful seroconversion and correlates to serum neutralization in mRNA-vaccinated immunocompromised individuals

Margaret Sällberg Chen
DDS, PhD, Professor Clinical Oral Immunology

Department of Dental Medicine, KI
SARS-CoV-2 infection of the oral cavity and saliva

COVID-19

Globally, as of 5:13pm CEST, 9 May 2022, there have been 515 192 979 confirmed cases of COVID-19, including 6 254 140 deaths, reported to WHO. As of 8 May 2022, a total of 11 579 263 039 vaccine doses
Can we measure Sars-CoV-2 antibodies in saliva?

Hospitalised Covid patients (1th wave 2020) 1- 9 months after their recovery

Alkharraan et al. J Inf Dis 2021
Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine

F.P. Polack, et al.  DOI: 10.1056/NEJMoa2034577

December 31, 2020

CLINICAL PROBLEM
Safe and effective vaccines to prevent severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection and Covid-19 are urgently needed. No vaccines that protect against betacoronaviruses are currently available, and mRNA-based vaccines have not been widely tested.

CLINICAL TRIAL
A randomized, double-blind study of an mRNA vaccine encoding the SARS-CoV-2 spike protein.
The Covaxid clinical trial
COVID-19 Vaccination of Immunodeficient Persons

- Primary immunodeficiency (90)
- Human immunodeficiency virus (HIV)-infection (90)
- Allogeneic stem cell transplantation / Chimeric antigen receptor (CAR T cell) therapy (90)
- Solid organ transplant (90)
- Chronic lymphatic leukemia (90)
- Healthy controls (90)

2-year follow-up ongoing

A joint effort between 3 organisations: KI, Karolinska University Hospital, and The Royal Institute of Technology of over 15 research groups

Bergman et al. EBioMedicine 2021
Saliva accurately predicts the serum anti-spike IgG
And shows the local antibody coverage

Saliva antibody testing is a good proxy for monitoring immunity in the immunocompromised patients
Saliva anti-spike IgG level correlates to serum neutralisation capacity of viral ACE-2 (PNT assay)

Offered re-vaccination

Study continues in a 2-year follow-up incl. Omicron-related responses

Healy et al. Med 2022, Blixt et al. Leukemia 2022
Thank you!

**KI MSC group**
- Postdocs
  - Michal Jacek Sobkowiak
  - Katie Healy
  - Pooja Tajpara
  - Giorgio Garbarrini
  - Mahin Ghorbani
  - Sabrina Naud

**PhD students**
- Liyin Lu (DDS)
- Khaled Al-Manei (DDS)
- Rahul Harshad Nagadia (MD, DDS) (KI-NDCS)

**Covaxid study collaborators**
- Karolinska University Hospital
  - Soo Alemán, Peter Bergmann, Piotr Nowak, Stephan Mielke, Per Ljungman, Anders Österborg, Lotta Hanson, Ola Blennow, Edvard Smith, Gunnar Söderdahl

**KI CIM MedSyd**
- Hans-Gustaf Ljunggren and Marcus Buggert’s group

**KTH**
- Peter Nilsson, Sophia Hober, Elisa Pin

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Trust and Hope Wallenberg Foundation

CIMED
Centrum för Innovativ Medicin

Swedish Research Council

Cancerfonden

SOF
Styrgroupen Kvål för odontologisk forskning

Region Stockholm
Questions?

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Presentation: “Salivary IgG to SARS-CoV-2 indicates successful seroconversion and correlates to serum neutralization in mRNA-vaccinated immunocompromised individuals”

Webpage: https://staff.ki.se/people/margaret-chen
Questions from the staff

ANA Futura