This two day conference arranged by iFeTIS in Stockholm at Karolinska Institutet will cover the very latest research and progress in the area of fetal immunology, transplantation and gene therapy.

**Date:** 11th – 12th of June 2018  
**Place:** Hall Q9 Månen, floor 9, Alfred Nobels Allé 8, Karolinska Institutet Campus Flemingsberg, Stockholm, Sweden

### Program Day 1: 11th of June

08.30  **Registration and coffee in the lobby**

09.00  **Welcome by the organizing committee**

09.15  **Session 1: Embryo and Fetal Development**  
Chair: Anna David  
- Early embryo development  
  Fredrik Lanner  
- The role of perinatal pathology in fetal therapies  
  Nikos Papadogiannakis  
- Emergence of consciousness  
  Hugo Lagercrantz  
- Prenatal transplantation animal models  
  Alan Flake  
- Short abstract presentations  
  TBD

11.00  **Coffee in the lobby**

11.30  **Session 2: Fetal Immunology**  
Chair: Jacob Michaëlsson  
- Fetal Immunology  
  Jacob Michaëlsson  
- Dissecting fetal immune ontogeny, and its relevance to fetal molecular therapy  
  Jerry Chan  
- Uterine NK cells - implications for maternal and fetal health  
  Martin Ivarsson  
- Short abstract presentations  
  TBD
13.00 Lunch in the lobby

14.00 Session 3: Gene Therapy and Editing
Chairs: Simon Waddington & Christopher Porada
- Gene therapy overview
  Edvard Smith
- Gene therapy using viruses
  – will it work in our lifetime?
  Simon Waddington
- Prenatal transplantation of placental cells engineered to express FVIII leads to corrective plasma levels of FVIII after birth
  Graca Almeida Porada
- Using Non Human Primates in Intrauterine Gene Therapy - How close are we to Clinical translation?
  Jerry Chan

15.30 Coffee in the lobby

16.00 Session 3 cont.: Gene Therapy and Editing
Chairs: Simon Waddington & Christopher Porada
- CRISPR in the embryo
  Fredrik Lanner
- In utero genome editing for congenital monogenic disorders
  William Peranteau
- Short abstract presentations
  TBD
- Brainstorming session and consensus on prenatal gene therapy
  Simon Waddington & Christopher Porada

18.00 End of day 1

19.30 Conference dinner

Program Day 2: 12th of June

08.00 iFeTIS breakfast meeting

09.00 Session 5: Cell Therapy
Chair: Tippi Mackenzie
- What lessons can be learnt from hematopoietic cell transplantation?
  Mikael Sundin
- The immunomodulatory and regenerative properties of human fetal cardiac MSC and their potential clinical use
  Karl-Henrik Grinnemo
- Prenatal cell therapy
  TBD
- Short abstract presentations
  TBD
10.30 **Coffee in the lobby**

11.00 **Session 6: Fetal Therapy**  
Chair: Magnus Westgren  
- What have we learnt so far? Magnus Westgren  
- Prenatal enzyme replacement therapy for Mucopolysaccharidoses - A new frontier Tippi McKenzie  
- HSC-IUT for Alpha-Thalassemia Major Tippi McKenzie  
- TBD Alan Flake  
- EVERREST trial update Anna David  
- BOOSTB4 trial update Cecilia Götherström

13.00 **Lunch in the lobby**

14.00 **Photo in the lecture hall**

14.10 **Session 7: Ethical dilemmas in fetal therapies**  
Chairs: Nils-Eric Sahlin & Göran Hermerén  
- Introduction to group discussions:  
  What have we learnt from the BOOSTB4 study and other studies – and what problems remain? Nils-Eric Sahlin  
- Discussion in groups

15.00 **Coffee in the lobby**

15.30 **Session 7 cont: Summary on ethical dilemmas in fetal therapies**  
Chairs: Nils-Eric Sahlin & Göran Hermerén  
- Discussion all together and summary  
- Wrapping up: steps towards a position paper

17.00 **Summary and End of conference**
Practical information

Registration
To register for the conference use the following link: https://survey.ki.se/Survey/9879
Inform us about any special dietary requirements when you register.

Conference fee
Full participants 2500 SEK excluding VAT
Students 2000 SEK excluding VAT
The conference fee includes coffee, lunch and the conference dinner on the 11th of June. Payment must be performed before 1st of June 2018 via direct payment to Danske Bank:
Bank account: 1281-01-17993
IBAN: SE19 1200 0000 0128 1011 7993
Refer to iFeTIS, your full name and H9449172.

Abstracts
To submit an abstract for oral presentation at the conference, please send the abstract by email to Lilian.Walther.Jallow@ki.se. The abstract must be in Word format and contain maximum 250 words of body text.
Deadline for submission: 15th of April 2018
Note of acceptance: 15th of May 2018

Conference dinner
The conference dinner will take place at Scandic Continental, Vasagatan 22 in Stockholm city. The conference dinner is included in the conference fee. Inform us about any special dietary requirements when you register or contact Malin.Holm.Blomquist@ki.se

Conference material
The conference program, abstract book and participant list are available from download from: https://www.fetaltherapies.org

Conference certificate
If you would like to receive a certificate of conference attendance, please contact Malin.Holm.Blomquist@ki.se

Hotel
A block of rooms has been reserved at reduced rates at Scandic Continental, Vasagatan 22 between 10-13th of June. The group overnight rate is 2140 SEK single occupancy and includes breakfast and free WiFi. Participants are required to make their own hotel reservations by contacting the hotel directly at www.scandichotels.com or via +46 (0)8-517 517 00. Please refer to BKIA100618 when making your reservation. The special room rate will be available until 4 weeks before the start of the conference.
Practical information

Travel instruction from Arlanda airport to Stockholm city
You can travel from Arlanda airport to Stockholm city by:

• Arlanda Express train: Departs 6 times/hour in peak hours. Travel time 20 minutes. Cost single: 280 SEK, return: 540 SEK. [https://www.arlandaexpress.com](https://www.arlandaexpress.com)

• Commuter train no 40: Departs 5 times/hour in peak hours. Travel time 36 minutes. Cost single: 151 SEK [https://sl.se/en](https://sl.se/en)

• Airport bus: Departs 7 times/hour in peak hours. Travel time 45 minutes. Cost single: 99 SEK, return: 198 SEK. [https://www.flygbussarna.se/en](https://www.flygbussarna.se/en)

• Taxi: Travel time ca 30 minutes with no traffic. Approximate cost per taxi (1-4 persons): 500-550 SEK. Make sure to ask for a fixed price and to use an official taxi (ask the people at the taxi stand for help).

Travel instruction from Stockholm city to the conference venue
The address to the conference venue is Alfred Nobels Allé 8, Karolinska Institutet Campus Flemingsberg, Huddinge, Sweden. Enter the building and take the elevator to floor 9. The lecture hall 9Q Månen is located through the doors on the left hand side when you exit the elevator.

• Travel by taxi:
The costs is approximately 500 SEK for 1-4 persons and the travel time is approximately 20-40 minutes. Ask the hotel to book the taxi to avoid dishonest taxi drivers.

• Travel by commuter train:
From Stockholm City train station, take the commuter train no 40 or 41X towards Södertälje centrum or Tumba to Flemingsberg station. It departs from Stockholm City 9 times/hour in peak hours. The travel time is 20 minutes + a walk of 5-10 minutes.

Cost travel card: 215 (24 hours), 250 (72 hours) SEK. Cost single: 44 SEK [https://sl.se/en](https://sl.se/en)

Once you arrive at Flemingsberg, exit the train station at the south exit and follow the signs towards Karolinska Institutet / Karolinska University Hospital. Take a right on the bridge outside the stations and take the escalators to the campus, cross the big square, on your left side there is a library. The Karolinska Institutet building at is straight ahead (see image on the next page). Take the stairs next to the library to Alfred Nobels Allé 8 (see map on the next page).
Karolinska Institutet, Alfred Nobels Allé 8

Map Campus Flemingsberg

Additional information
For additional information contact Malin.Holm.Blomquist@ki.se

Very welcome from the Organizing Committee!
Associate Professor Cecilia Götherström, Karolinska Institutet
Professor Magnus Westgren, Karolinska Institutet
Assistant Professor Lilian Walther Jallow, Karolinska Institutet