



4th Nordic Autophagy Society (NAS) Conference

Tromsø, November 10th-12th 2021



Venue: Clarion Hotel The Edge, Kaigata 6, 9008 Tromsø , Norway
(<https://www.nordicchoicehotels.com/hotels/norway/tromso/clarion-hotel-the-edge/>)

Organizers

Terje Johansen (UiT The Arctic University of Norway)

Nikolai Engedal (Oslo University Hospital, Norway)

Gry Evjen (UiT The Arctic University of Norway)

Eva Sjøttem (UiT The Arctic University of Norway)

Trond Lamark (UiT The Arctic University of Norway)

The NAS board: Nikolai Engedal (Chair), Daniel Hofius (General secretary, Sweden), Anu Kauppinen (Treasurer, Finland), Anne Simonsen (Norway), Eeva-Liisa Eskelinen (Finland), Alyona Minina (Sweden), Margret Helga Øgmundsdottir (Iceland), Francesco Ceconi (Denmark), Jekaterina Ērenpreisa (Latvia), Lisa Frankel (Denmark), Fulvio Reggiori (The Netherlands)

Web masters: Behzad Khoshnood (Sweden), Rubén Gómez-Sanchéz (NL)

NAS sponsorship team: Nikolai Engedal, Daniel Hofius, Chara Charsou, Karolina Pircs, Merve Kacal



Program

Wednesday, November 10th

- 12:30 - 14:00** **Registration** – *in the hotel lobby*. Light food will be served in the registration area.
- 14:00 - 14:05 Welcome and opening remarks by the organizers
- 14:05 - 15:05** **Session 1 - Mitophagy – Mechanisms and Disease**
Chair: Terje Johansen
- 14:05 - 14:45 **Keynote lecture 1:**
Ian Ganley (University of Dundee, UK)
Strengthening the link between Parkinson's and mitophagy
- 14:45 - 15:05 Short talk 1
Matteo Bordi (Danish Cancer Society Research Center, Copenhagen, Denmark)
V-ATPase-ATG16L1 axis contributes to mitophagy initiation
- 15:05 - 15:07** Meet the Sponsors – Silver Sponsor and Exhibitor Nordic BioSite
- 15:07 - 15:45** *Coffee break*
- 15:45 - 17:05** **Session 2 – Mechanisms of Selective Autophagy**
Chair: Anne Simonsen
- 15:45 - 16:05 Short talk 2
Mariya Licheva (University of Freiburg, Germany)
Spatial control of avidity regulates initiation and progression of selective autophagy
- 16:05 - 16:25 Short talk 3
Mario Mauthe (University of Groningen, The Netherlands)
The co-chaperone DNAJB6 conveys protein aggregates into lysosomal degradation through selective autophagy
- 16:25 - 16:45 Short talk 4
Hallvard Olsvik (University of Tromsø – The Arctic University of Norway)
The selective autophagy receptor NBR1 interacts with clathrin via a conserved clathrin-box motif
- 16:45 - 17:05 Short talk 5
Nikoline Lander Rasmussen (University of Tromsø – The Arctic University of Norway)
TBK1 phosphorylation activates LIR-dependent degradation of the inflammation repressor TNIP1
- 17:05 – 17:15** *Group picture – in the stairways*
- 17:15 - 18:45** **Poster & Exhibitions - part 1 (Even numbers)**
- 19:00 - 21:00** *Dinner (at the hotel)*

--- After the dinner - if weather and conditions allow - Possibility to walk to Prestvannet (20-30 min walk with local organizer guide) to see Northern lights!

Thursday, November 11th

09:00 - 10:20 Session 3 – **Selective and Non-selective Autophagy – Mechanisms and Regulation**

Chair: Nikolai Engedal

09:00 - 09:40 **Keynote lecture 2:**

Nick Ktistakis (Babraham Institute, Cambridge, UK)

The plasticity of the autophagic pathway: making autophagosomes big and small

09:40 - 10:00 Short talk 6

Matthew Ng (University of Oslo, Norway)

The role of cholesterol and cholesterol transport proteins in autophagy

10:00 - 10:20 Short talk 7

Maria Hønholt Jørgensen (Danish Cancer Society Research Center, Copenhagen, Denmark)

A novel role of PELI3 as a regulator of autophagy

10:20 - 10:50 **Coffee break**

10:50 - 11:30 Session 4 – **Autophagy Regulation and Coordination**

Chair: Margret Helga Ögmundsdóttir

10:50 - 11:10 Short talk 8

Nathalia Chica (The Norwegian Radium Hospital - Oslo University Hospital, Norway)

Genome-wide regulatory landscape of autophagy dynamics in budding yeast

11:10 - 11:30 Short talk 9

Valentina Cianfanelli (Danish Cancer Society Research Center, Copenhagen – Denmark and IRCCS Bambino Gesù Children's Hospital, Rome – Italy)

Phosphatase-Mediated Coordinated Regulation of Macroautophagy, Mitophagy and Mitochondrial Biogenesis

11:30 - 12:30 **Lunch**

12:30 - 15:30 **Social program**

Alternatives for social activities:

1. *City walk.*

2. *City walk including the bridge and Arctic Cathedral.*

3. *Guided tour with the cable car to enjoy the view over Tromsø and the surrounding landscape (Prize for the cable car: NOK 228 each. For Groups of 10+: NOK 195 each). You can go by bus to the cable car (NOK 36 each way). (Take Bus 28 from Sjøgata S1 to Hjorten and then switch to bus 26 to go further from Hjorten to Fjellheisen (totally about 15 min). For return take Bus 26 all the way to the city centre)*

4. *Guided walking tour up the Sherpa steps (1203 steps) to the cable car end point. Cable car and bus back to the hotel (Cable car down: NOK 152/133 and Bus: NOK 36).*

Map with the suggested walking routes including museums/buildings/pubs worthy to visit is enclosed in your welcome map. Alternative 3 and 4 is weather dependent. Please bring good shoes and a warm jacket if you want to join alternative 3 or 4.

15:30 - 16:50 Session 5 – Lysosomes, Endosomes and Autophagy

Chair: Fulvio Reggiori

15:30 - 16:10 **Keynote lecture 3:**

Marja Jäättelä (Danish Cancer Society Research Center, Denmark)

Lysosomes as regulators of cellular ion homeostasis and STAT3

16:10 - 16:30 Short talk 10

Arindam Bhattacharjee (Biological Research Centre, Szeged, Hungary)

Lysosomal Ca²⁺ efflux by TRPML increases autophagic flux by lysosomal fusion and degradation

16:30 - 16:50 Short talk 11

Simona Migliano (The Norwegian Radium Hospital - Oslo University Hospital, Norway)

Aberrant endosomes – autophagy to the rescue

16:50 - 18:20 Poster & Exhibitions - part 2 (Odd numbers)

18:20 - 19:20 NAS General Assembly (open for all NAS members)

19:20 - 21:30 Conference Dinner - at the hotel.

--- After the dinner - if weather and conditions allow - Possibility to walk to Prestvannet (20-30 min walk with local organizer guide) to see Northern lights!d

Friday, November 12th

09:00 - 10:00 Session 6 - **Autophagy in aging and in amyloid degradation**

Chair: Francesco Cecconi

09:00 - 09:40 **Keynote lecture 4:**

Patricia Boya (CIB Margarita Salas, Madrid, Spain)

“Autophagy in aging and aging related diseases”

09:40 - 10:00 Short talk 12

Joydeep Roy (Stockholm University, Sweden)

Amyloid aggregates are cleared by Hsp70-mediated autophagy using a novel nucleotide exchange factor Atg8/LC3 adaptor in yeast

10:00 - 10:30 *Coffee break*

10:30 - 11:30 Session 7– **Xenophagy and autophagy-related proteins in virus infection**

Chair: Daniel Hofius

10:30 - 10:50 Short talk 13

Yingying Cong (University of Groningen, The Netherlands)

The role of LC3s in influenza A virus life cycle

10:50 - 11:10 Short talk 14

Nirbhay Kumar Kushwaha (Uppsala BioCenter, Swedish University of Agricultural Sciences and Linnean Center of Plant Biology)

A plant virus exploits actin filament-binding kinesin motors to escape xenophagy

11:10 - 11:25 *Prize giving for the best posters and best talk*

11:25 - 11:30 *Concluding remarks*

11:30 – 13:00 *Lunch and departure (or stay for the weekend to discover Tromsø and surroundings!)*

Things to see and do in Tromsø

If you want to go on a Northern Light Trip out of Tromsø, Northern light cruise with Jacuzzi from the Tromsø harbour, participate in Reindeer feeding and get some Sami History or, last but not least, go whale watching, you may check out Tromsø, Norway at:

www.getyourguide.com

You will also find information and nice offers at: **www.visit tromsø.no**

The Arctic University Museum of Norway is Northern Norway's oldest scientific institution.

This museum offers science-based exhibitions, updated with the latest research. From fossils and rocks to wildlife and changing nature, the nature exhibitions «TellUs» and «UnNaturally» provides comprehensive information about the history of our planet Earth as well as the evolution and adaptations of birds and animals in the Northern regions. A huge ichthyosaurus fossil, a whale skeleton and a nugget of solid gold are among the highlights.

Explore the fascinating Northern Lights in the very interactive exhibition «Under the lights». Our exhibition «Sapmi – becoming a nation» tells about this troublesome journey and the fight the Sami had to put up for their culture and rights.

A Viking burial tradition was to bury people in boats. «Dig a grave – bury a boat» tells about this custom and the rich finds that are excavated from such graves.

See also a beautiful collection of Medieval and 18th century art from churches in Northern Norway, where the objects can tell as much about the local life as they can about stories from the Bible.

The Polar Museum is a museum in Tromsø center that preserves and disseminates stories related to Norwegian seal hunting, Arctic science and polar expeditions. The museum was opened on June 18, 1978, exactly 50 years after Roald Amundsen set out on his last and fateful journey with the aircraft carrier Latham.

Perspektivet Museum is a foundation in Tromsø established in 1996, with the aim of disseminating and developing knowledge as a basis for understanding connections in life, creating tolerance for cultural diversity and contributing with alternative perspectives on culture and society. The house was the home of the Norwegian author Cora Sandel.

Nordnorsk Kunstmuseum is a Norwegian visual arts museum in Northern Norway. The Northern Norwegian Museum of Art is responsible for the entire northern region and in 2010 established a separate department for the nationwide program.

The Science Centre of Northern Norway/Planetarium

The interactive exhibits engage the senses and suits all ages and demonstrates the diversity of nature and technologies surrounding us. The science center accommodates Norway's largest planetarium where the northern lights never miss an appearance and no other natural phenomenon does better justice to being displayed in a 360° dome theater. Film extreme Auroras at 14.00 every day.

Ishavskatedralen/The Arctic Cathedral

The cathedral is a landmark visible from the Tromsø Sound, the Tromsø Bridge and when landing in Tromsø by aircraft. The 11 aluminum-coated concrete panels on each side of the roof provide the cathedral's form. The main entrance on the western side is surrounded by a large glass façade with a pronounced cross. The glass mosaic is one of artist Victor Sparre's most prominent works. It depicts God's hand from which departs three rays of light: one through Jesus, one through a woman and one through a man. The glass work contains many symbols and generates considerable attention among our visitors.

Polaria is an experience center, aquarium and museum that opened in May 1998.

Polaria has a well-developed aquarium with Arctic sea plants, Arctic fish and animals. There are water tanks in floors, walls and ceilings and glass tunnels that visitors can go under while seals swim over their heads. There are several exhibitions about ice and climate, including a research film about polar bears and walruses. Polaria has a play corner for children with a small climbing wall and slide for those who want it.

The great bustard and the harbor seal are one of Polaria's main attractions. Visitors can come twice a day to see the seals being fed, then you can both learn more about the seals and see how the trainers keep the seals active through mental and physical stimuli.

Polaria has its own café as well as a souvenir and gift shop that is open every day of the year. The cinema in Polaria shows the panoramic film from Svalbard and about the Northern Lights every half hour.

Some popular Pubs in Tromsø

Ølhallen- Oldest pub with the bigger beer selection, beer for all the tastes, chance to see a polar bear!

Verdensteatret – The oldest cinema in the North of Europe that is still in use. Opened in 1916. You find a nice café/pub in the entrance room.

Blå Rock- Good beer, good burger, extra: Drums in the ceiling

Solid- small but cosy

Bardus- Fancy one, nice for cocktails

Amtmandens-wine bar

Storgata Camping- for beer combined with minigolf

Café Sønn- Cosy environment, decent selection of wines and beers

Prelaten- Basement pub, try the Moscow mule

Rorbua- known for the television series on NRK 1980-1990 "Du skal høre mye"

DRIV – the student pub

Some Recommended Seafood restaurants

Full steam/Arctandria/Fiskekompaniet/Maskinverkstedet/Rå (Sushi)/Skirri

How to get around in Tromsø

Go around by bus:

- Download the app [Troms Billett](#) on your phone. There you can buy online tickets and check the real time arrivals and departures of the different buses.
- As an alternative, you can pay the bus by SMS to phone no 2002. Use the code BUSS.
- If you are not sure if you entered the correct bus, ask the bus driver for the destination.