

access  ACADEMIC  
COLLABORATION  
CHILE  
SWEDEN

**ACCESS Forum Results**  
Punta Arenas, Chile  
7-11 November 2022





Researchers, PhD students, university rectors and public officials from Chile and Sweden met in Punta Arenas at the Universidad de Magallanes campus on 7-11 November 2022 for the third ACCESS Forum.

### Participating universities, authorities and organisations

- Andrés Bello National University
- ANID (formerly CONICYT)
- Business Sweden
- Chilean Ministry of Education
- Chilean Ministry of Foreign Affairs
- CORFO
- Embassy of Chile
- Embassy of Sweden
- EUROAXESS
- Karolinska Institutet
- Kristianstad University
- KTH Royal Institute of Technology
- Lund University
- Pontificia Universidad Católica de Chile
- Regional government (Magallanes)
- Södertörn University
- STINT
- Stockholm University
- Swedish Research Council
- Swedish University of Agricultural Sciences
- Universidad de Aysén
- Universidad de Chile
- Universidad de Concepción
- Universidad de Santiago de Chile
- Universidad de Magallanes
- Universidad de O'Higgins
- University of Gothenburg
- Uppsala University

### Member Universities



### Academic Collaboration Chile Sweden

The Academic Collaboration Chile Sweden (ACCESS) platform aims to facilitate and deepen the academic relations between Chile and Sweden, as well as to enable researchers, staff and students to become more connected to each other.

ACCESS was created on the foundation of the strong historical links between Chile and Sweden. Despite the distance, the countries are well connected, and both recognize the paramount importance of facing the global challenges with knowledge and research. With 5 years of successful efforts in connecting scholars and stakeholders from both Chile and Sweden, ACCESS took the next step launching ACCESS 2.0 during the period 2021-2024.

ACCESS 2.0 offers forums every 18 months and the first physical forum after the Corona pandemic was held in Punta Arenas, Chile from November 7-11, 2022. The forum gathered 250 participants (PhD-students, researchers, university management and funding agencies) from both countries for workshop discussions focusing on 12 parallel Research Themes. These Research Themes were all based around 4 Sustainable Development Goals that were identified as focus areas for both countries. These SDGs are:

SDG 3 – Good Health and Well-Being

SDG 11 – Sustainable Cities and Communities

SDG 14 – Life Below Water

SDG 15 – Life on Land



## Research Themes

In order to contribute to research excellence, long-term collaborations and increased academic mobility between the two countries, twelve research areas were identified for the Forum 2022 as common challenges for both countries which related to the SDG focus areas of ACCESS. These challenges were the starting point of the discussions in separate workshops, followed by a general interdisciplinary discussion. Summaries from every workshop can be found in this folder.

The twelve research areas from the 3rd ACCESS Forum at Universidad de Magallanes 7-11 November 2022 are:

- Causes and consequences of ongoing urbanization processes in Sweden and Chile
- Comparative eating practices in late modernity
- Crime as a social problem
- Food sustainability for global health
- From ocean to one health: a collaborative and multisectoral approach against infectious diseases and the antimicrobial resistance in aquaculture
- Healthy brain ageing and improved therapeutics and regeneration for brain disease
- Immunology & health: A personalized medicine approach
- Interdisciplinary perspectives on urban sustainability: communicational challenges and future development prospects towards sustainable cities and communities
- Memory, heritage and coloniality. Linkages between Chile and Sweden
- New technologies, policies, and initiatives towards preventing and reducing marine pollution and its consequences: improving the sustainability of life below water
- Social (In)justice, indigeneity and sustainable future(s): Recognition, interrogation and re-existence
- Sustainable aquatic food production systems





*"I think that ACCESS is an excellent platform to continue developing the relations between Chile and Sweden, and I think that ACCESS is also a reflection of our unique relationship, which is characterised by strong historic links with about 60,000 people in Sweden today having their original Chile. The relationship is also characterised by some similar challenges and opportunities and, very importantly, shared ideas and priorities on how to meet those challenges. Sustainability, gender equality, science, innovation, and democracy are all at the core of a shared mindset that we have, and I believe also at the core of ACCESS and its agenda."*

*Tomas Wiklund  
Ambassador of Sweden to Chile*



#### **Future Forums Timeline:**

**June 10-14 2024**

4th ACCESS Forum: Stockholm, Sweden - hosted by Stockholm University and KTH

**2025 (Nov/Dec)**

5th ACCESS Forum: Concepción, Chile - hosted by Universidad de Concepción

**2027 (May/June)**

6th ACCESS Forum: Sweden, city and host TBD

## Research Themes : Causes and consequences of ongoing urbanization



### Results

The purpose of this workshop was twofold. The first purpose was to present and discuss research that aims at providing a better understanding of the consequences of the ongoing urbanization processes in Sweden and Chile and to discuss policies, such as housing policies, place-based policies, and urban planning, that play important roles for this understanding. The second purpose was to initiate discussions for future research cooperation on how Chile and Sweden tackle problems following in the wake of urbanization.

Topics that were discussed at the workshop covered a rather wide variety of urban-related questions, as given by the titles of the presentations:

- "Port-ecologies and labour regimes: Notes on examining labour regimes in food and mining ports in Chile"
- "What's in a Label? On Neighbourhood Labelling, Stigma and House Prices"
- "On Gentrification: Renovations of Rental Housing and Socio-Economic Sorting"
- "StressMApp: Developing a smartphone application to understand stress-related cognitive markers and their links with subjective experiences of/exposure to stressors"
- "Pre-school location, air quality, teachers' and childrens' health outcomes"

- "Urban fauna; native scarcity, global introductions and influence upon human and environmental health"

- "Transformation of historical urban images of Punta Arenas. Regress, preserve or progress to success?"

- "The rural and urban centric-crime context. Sweden – Chile"

- "On perceptions and constructions of crime in urban contexts"

The consensus in the group seemed to have been that all these questions were of importance and highly policy-relevant for both countries, and that a value-added aspect of the workshop was that it brought together researchers from diverse disciplines examining similar questions with different methodological approaches. There were positive and fruitful discussions.

### Future cooperation and initiatives:

- Felipe Irarrazaval (Universidad Católica) and Henrik Ernstson (Royal Institute of Technology, KTH, in Stockholm) have already started a project on port-ecologies and labor regimes. In their work, they will conduct a comparative study of two types of Chilean port cities—one specialized in minerals, including copper and lithium, the other on forestry products, including wood boards, textile pulp, and sawn timber—to better understand how the intensification of transport and logistics to connect extraction sites with global markets, shapes labor regimes and local to regional landscapes. Felipe Irarrazaval has visited Sweden (KTH and Uppsala University) after the ACCESS-meeting in Chile.

- Cristóbal Briceño (Universidad de Chile) and Per-Anders Edin (Uppsala University) have been in discussions on having a Chilean PhD student visiting Uppsala University.

- Patrik Olsson (Lund University) has project on the rural and urban centric-crime context which might turn into a project that includes the Swedish/Nordic countries and Chile/Uruguay.

### Participants:

Voltaire Alvarado Peterson (PI), Universidad de Concepción  
 Matz Dahlberg (PI), Uppsala University  
 Felipe Irarrazaval, P. Universidad Católica  
 Cristóbal Briceño, Universidad de Chile  
 Kristin Schmidt, Universidad de Concepción  
 Daniela Ambrosetti, Universidad de Magallanes  
 Henrik Ernstson, KTH  
 Pei-Yu Wu, Lund University  
 Patrik Olsson, Lund University  
 Siri Haavimb, Stockholm University  
 Majken Stenberg, Uppsala University  
 Per-Anders Edin, Uppsala University  
 Peter Nilsson, Stockholm University

## Research Themes :

### Comparative eating practices in late modernity



## Results

The aim of this workshop was to explore the food practices of Chileans and Swedes from a comparative and interdisciplinary perspective to examine their state in late modernity characterized by significant social, environmental, and health crises.

Each day, researchers from both countries presented the results of empirical studies for their own studies, providing data and/or theoretical reflections to contrast food practices in Chile and Sweden.

The presentation and discussion was organized in three topics:

- Cultural and historical aspects of food, social identity, social differentiation, politics, and social movements
- Change and stability in meal routines and dietary intakes – focused on national dietary surveys, time-use analyses, and other forms of food-consumption data
- Policy, production, and purchases of food in relation to health and environmental sustainability

The key consensus was as follows: There is agreement on the possible stability of eating practices in both countries (e.g., persistence of commensality). Food consumption shows different trends in both countries (e.g., Sweden is consuming less meat, while Chile has increased its relative consumption). These trends are linked to health problems in the population (e.g., obesity).

Structural factors are key in understanding both eating practices and food consumption: social stratification, food environments and cultural/material frameworks. More data is available in Sweden than in Chile, mainly longitudinal data. In both countries there is a clear social gradient in healthy diets, despite different levels of social stratification and food environments of socioeconomically disadvantaged neighborhoods.

### Future cooperation and initiatives:

- The group agreed to apply to create a PhD course. The course will be about eating practices for sustainability from a comparative perspective.
- The group is interested in collaborative projects (but have to search for specific grants). A possible research topic is a low carbon-print diet.
- The group is exploring other PhD activities (summer school?) in collaboration with other related food-themed workshops in the Forum.

### Participants:

Claudia Giacoman (PI), P. Universidad Católica  
 Nicklas Neuman (PI), Uppsala University  
 Anna Stubbendorff, Lund University  
 Gislaine Granfeldt, Universidad de Concepción  
 Yvonne Granfeldt, Lund University  
 Daniel Egaña, Universidad de Chile  
 María Jesús Vega, P. Universidad Católica  
 Eva Warensjö Lemming, Uppsala University  
 Francisca Santana, P. Universidad Católica  
 Jonas Bååth, Lund University  
 Cristóbal Quezada, P. Universidad Católica

## Research Themes : Crime as Social Problem



### Results

The main purpose of this theme was to present and discuss current trends in crime and reactions to crime, as well as strategies of prevention and reinsertion, in two very different societies. It also aimed to explore the availability of education and research institutes on these issues at university level. Finally, the participants wished to get more knowledge of the availability of different kinds of crime data in their countries to elaborate on possibilities for future comparative work.

An important outcome was that the workshop functioned as a hub for researchers in sociology, political science, social work, law and criminology to meet and develop ideas and collaborations regarding university courses at postgraduate level, panels at international conferences, visits to each other's departments and to co-write scientific articles. This was even more important since it turned out that Criminology as a field is much less developed in Chile than in Sweden.

The group found unexpected similarities regarding crime as a social problem: it turned out that crime is seen as one of the most important social problems in both Swedish and Chilean society. It is clear that migration and crime are seen as connected problems and that a – sometimes populist – political tone is present in both societies. The social and political construction of crime as a problem can be better understood; how this construction affects knowledge-based crime policies is an important research question for the future. This Workshop was a promising starting point for a more ambitious comparative research project on crime trends, punishment, prevention and reinsertion policies in Chile and Sweden.

### Future cooperation and initiatives:

- Felipe Estrada was invited as a visiting professor both at the Universidad de Chile and the P. Universidad Católica during November and December 2022, where he had the opportunity to present different criminological studies of his and to meet new colleagues who could not attend the forum, in particular Claudio González (U. de Chile) who was originally a participant of the workshop. Felipe Estrada also participated in a visit to one of Santiago's criminal courts with Jeanne Hersant, where they attended a drug court's hearings.
- Just after the Forum, the School of Social Work of the P. Universidad Católica received two PhD students from the department of Criminology at Stockholm University, who participated in a meeting with PhD students of the Sociology program.
- Felipe Estrada and Pilar Larroulet are planning to write a comparative study on crime trends and insecurity levels in Chile and Sweden, and a new workshop in Stockholm in 2024 which would be an opportunity for Chilean PhD students and senior scholars to visit the department of Criminology at SU.

### Participants:

Jeanne Hersant (PI), P. Universidad Católica  
 Felipe Estrada (PI), Stockholm University  
 Pilar Larroulet, P. Universidad Católica  
 Margareta Hydén, Stockholm University  
 Cristian Letelier, Universidad de Chile  
 Solisa Pekkari, Gothenburg University  
 Ulda Omar Figueroa Ossa, P. Universidad Católica  
 Petter Ingemarsson, Uppsala University

## Research Themes : Food sustainability for global health



### Results

The goal of this workshop was to promote the transition from conventional food systems towards sustainable food systems – focused on extreme regions sharing the experiences of Chile and Sweden. Additionally, the group aimed to strengthen scientific knowledge and provide relevant scientific information related to the sustainable use of natural resources in the areas of food systems and human health.

The workshop concluded the following: There is a need for collaboration using an interdisciplinary approach (one health). There is a need for open/public access to data in the food systems and human health. Researchers should consider the impacts of diet and nutrition values related to social determinants, cultural factors, impact and prevention of non-communicable disease. The group identified common challenges in the Food Sustainability for Global Health such as the effects of climate changes in the extreme regions of Chile. Agricultural resources (e.g. land and water) should be prioritized for food production instead of other less important uses.

There is a direct relation between food production/food consumption and planetary and human health. Researchers need innovative tools to measure the impacts of climate/environmental change in food systems using an interdisciplinary approach. The group focused on the connection between Globalization and monoculture and food security for future collaborations.

### Future cooperation and initiatives:

- Course design: Modular Postgraduate hybrid/online course: Bioinformatics & Food Safety/nutrition and global health
- Review relevant articles together
- Research proposal: Risk assessment evaluation of pollutant modelling mixtures in the Aconcagua River Basin (One health) food crisis/monoculture Comparing study/ food residuals/waste in food production (courses)
- Development of a collaboration network on production cycle and nutrition

### Participants:

Osvaldo Salazar (PI), Universidad de Chile  
 Martin Stafström (PI), Lund University  
 Carlos M Guerrero-Bosagna, Uppsala University  
 Viktoria Olsson, Kristianstad University  
 Miguel Brandão, KTH  
 Erik Bongcam-Rudloff, SLU  
 Jessica Coria, University of Gothenburg  
 Cristian Alárcon Ferarri, SLU  
 Claudia Foerster, Universidad de O'Higgins  
 Francisca Echeverría, P. Universidad Católica  
 Magdalena Jensen, Universidad de Concepción  
 Mauricio Marin, Universidad de Santiago de Chile  
 Ingrid Hebel, Universidad de Magallanes



## Research Themes :

### From ocean to one health: a collaborative and multisectoral approach against infectious diseases and the antimicrobial resistance in aquaculture



## Results

The main outcome of this workshop was to create an exercise of developing a One Health framework in a One Health issue as is AMR. Working in the aquaculture setting was because is a controversial area of animal production which has had to face significant diseased outbreaks and due to its context, it is always exposed to infectious diseases, for which the use of antimicrobials is necessary.

First, there was a round of presentations of each participant of the workshop in order to know the state of the art of their research activities, the field of work, and why they felt interested in that group. Then, the group did a brainstorming activity to identify some bullet topics/areas that we had to be focused on the second day. Some research questions were drafted, and the umbrella term of the workshop was analysed in depth to work on the second day. On the second day, the main methodology to apply in the discussion was “the System Thinking” to work on the AMR in aquaculture under the One Health perspective. The main group was divided into an “environment-systemic group” and in a “biological/pathogen/animal health” group. After around 90 minutes of discussion separately, we started to work together to match the ideas and work on a “transdisciplinary” result, which are the outcomes for future collaboration.

## Future cooperation and initiatives:

- The first step after the workshop is to begin with writing a white paper focused on the workshop topic to enhance the relationship among the participants.
- The group then wants to address the collaboration in developing an international competitive project. This project should be as competitive as to apply for international funding not only in Chile, Sweden or European Unión. The group was aware of this challenging outcome, but the idea is to work on it.
- The group defined a deadline to the first meeting to discuss the paper, which is the baseline for the future collaboration project in March 2023.
- Another agreement was to identify which grants/funding could apply as an interdisciplinary/international collaboration group. This grant should be focused on some of the following topics: AMR/food security/aquaculture/One Health/fish production/ emergent and reemergent infectious diseases.

## Participants:

Fernando Mardones (PI), P. Universidad Católica  
 Edward Moore (PI), University of Gothenburg  
 Bibiana Jara, Universidad de Magallanes  
 Pablo Cáceres, Universidad de Chile  
 Andrea Moreno, P. Universidad Católica  
 Gerard Olivar-Tost, Universidad de Aysén  
 Felipe Reyes, Universidad de Santiago de Chile  
 Francisco Salva Serra, University of Gothenburg  
 Olof Lindahl, Uppsala University  
 Francisca Córdova Bührle, P. Universidad Católica

## Research Themes : Healthy brain ageing and improved therapeutics and regeneration for brain disease



### Results

The primary objective of the workshop was to form a research network within the ACCESS collaboration based on existing strong interdisciplinary expertise in our two countries, to promote healthy brain aging and to combat the diseases of the aging brain. To achieve this goal, a multi-level approach will ultimately be needed – building on strong research initiatives within different areas, including molecular/cellular neuroscience, systems neuroscience, clinical studies, epidemiology, and population health. Strategic collaboration with industrial partners will also be of importance to stimulate the innovative process towards new therapies.

After discussing potential areas of interest during a pre-meeting, the following themes were highlighted as potential themes to build collaborative efforts around:

#1 – Strategies for successful implementation of WHO's guidelines for Integrated Care for Older People (ICOPE) under the concept of age-friendly cities

#2 - Development of novel therapies aimed to treat brain disease

#3 - Finding personalized preventive strategies, including exploring the potential of stem cells and regenerative medicine, to combat Alzheimer's and Parkinson's disease

#4 – Combining knowledge and study designs from epidemiological studies in Chile and Sweden

#5 – Sleep and memory in health and disease

#6 - Exercise - Brain crosstalk: Lifestyle interventions to improve cognitive functions

In the final session, a Roadmap document was created identifying strategies to pursue new collaborative projects and joint education efforts. Objectives were divided according to tentative milestones: short-term goal, 1 year or long-term goal, 2 years. Before the next ACCESS meeting in Stockholm 2024 a virtual meeting will be held in 2023 to follow up on the short-term action points.

### Future cooperation and initiatives:

- Writing of review article on stem cells, organoid models and in vivo studies of neurodegenerative disease
- Apply in Infrastructure call EU 2023
- To keep fluid communication in the newly created community of research groups in the brain aging research theme, a Brain-aging social media will be created
- Write an editorial from the ACCESS 2022 meeting (Brain aging)

### Participants:

Romulo Fuentes (PI), Universidad de Chile  
 Per Petersson (PI), Lund University  
 Afsaneh Koochek, Uppsala University  
 Andrea Paula Lima, Universidad de Chile  
 Carolina Delgado, Universidad de Chile  
 Charlotte Häger, Uppsala University  
 Christian Gonzalez-Billault, Universidad de Chile  
 Eduardo Sagredo, Stockholm University  
 Ivan Nalvarte, Karolinska Institutet  
 Javier Silva, Universidad de Chile  
 Jonas Molinder, University of Gothenburg  
 Jose Inzunza, Karolinska Institutet  
 Manuel Guerrero, Universidad de Chile  
 Marcelo Cano, Universidad de Chile  
 Maria Alexandra Garcia, Universidad de Chile  
 María Paulina Correa, Universidad de Chile  
 Mukesh Kumar Varshney, Karolinska Institutet  
 Myriam Gutiérrez, Universidad de Chile  
 Nivaldo Inestrosa, Universidad de Magallanes

## Research Themes :

### Immunology & health: A personalized medicine approach



## Results

The goal of the workshop was to bring together principal investigators, post-doctorates and students from Chile and Sweden in the field of vaccines, viruses, immunology disorders, oral health, molecular diagnostics, and immunotherapy in cancer to define milestones for the establishment of international grants, scientific collaboration and publications and public health initiatives.

The outcomes included the following:

1. Knowledge of Science for life laboratories and an offer to access these scientific platforms through collaboration with Swedish researchers.
2. Sharing of knowledge (individual research projects and commentaries from peers)
3. New Connections with the University of Magallanes
4. New Connections with University of Concepcion
5. Access to biobanked samples in Chile of include in international projects
6. Discussion on the feasibility of student exchange

## Future cooperation and initiatives:

- Zoom meetings: COVID team with diagnostic options and telephone options that could be applied to Chile.
- Creation of a “drive” to hold presentations to help locate professors and promote collaborations
- Visits to Sweden, several investigators are open to visit University of Uppsala when they are in Europe for conferences.
- Discussion with PhD students to seek options for internships in foreign and national laboratories.
- Networking / Building Confidence / Creating friendships

## Participants:

Masood Kamali-Moghaddam (P), Uppsala University  
 Gareth Owen (PI), P. Universidad Católica  
 Anna Dimberg, Uppsala University  
 Magnus Essand, Uppsala University  
 Nils Landegren, Uppsala University  
 Maximiliano Arce, Uppsala University  
 Hanna Thorsson, Lund University  
 Hugo Fitipaldi, Lund University  
 Estefania Nova, Universidad de Concepción  
 Marcelo Navarette, Universidad de Magallanes  
 Jorge Gonzalez, Universidad de Magallanes  
 Ines Cid, Universidad de Magallanes  
 David Medina, Universidad de Magallanes  
 Lindybeth Sarmiento, Universidad de Magallanes  
 Julieta Sepulveda, Universidad de Magallanes  
 Pablo González, P. Universidad Católica  
 Alexis Kalergis, P. Universidad Católica  
 Claudia Saez, P. Universidad Católica  
 Juan Carlos Roa, P. Universidad Católica  
 María Rosa Bono, Universidad de Chile  
 Leandro Carreño, Universidad de Chile  
 Flavio Salazar, Universidad de Chile  
 Fermín González, Universidad de Chile  
 Ivan Gallegos, Universidad de Chile

### Research Themes :

#### Interdisciplinary perspectives on urban sustainability: communicational challenges and future development prospects towards sustainable cities and communities



### Results

The purpose of this workshop was to discuss both past and planned initiatives in Sweden and Chile regarding urban sustainability and its communicational challenges, successes, and failures to engage local communities in mindset changes. In discussions with municipal officials Punta Arenas and Umeå, the workshop recognized the need to reinterpret the links between academic research and local practitioners. Their main goal was to explore value systems on sustainability and ecosystems from multidisciplinary perspectives towards identifying and building new narratives on promoting behavioral changes towards the sustainable goals of agenda 2030.

During the workshop, the group met with municipal officers from Punta Arenas and Umeå, visiting Punta Arenas as part of EU financed project on urban planning in three European and three Latin American municipalities.

There was an enhanced understanding for differences in governance and the importance on cooperation between academia and municipalities on an equal basis with benefits for both parties.

The group identified internal and external funding – seed money, initiation grants, cooperation projects, national funding, international funding

### Future cooperation and initiatives:

- Using the email list for sharing notes and thoughts
- Creating a common Teams area for continued dialogue. Folder for sharing ideas, links, and suggested reading. Folder for project ideas.
- Individual investigation of possibilities for seed money at respective university or from local stakeholders, initiation grants, cooperation projects, national funding, international funding.
- Connecting existing projects in Sweden and Chile to form basis for new common projects.

### Participants:

Liliana De Simone (PI), Universidad de Chile  
 Henrik Rahm (PI), Lund University  
 Nils Peter Ragnar Sjöström, Lund University  
 Bernadett Kiss, Lund University  
 Alexander Paulsson, Lund University  
 Linus Zhang, Lund University  
 Jennifer Leijon, Uppsala University  
 Lazaro Moreno, Stockholm University  
 Kay Bergamini, P. Universidad Católica  
 Claudia Labarca, P. Universidad Católica  
 Lake Sagaris, P. Universidad Católica  
 Patricia Junge, Universidad de Chile  
 Catalina Amigo, Universidad de Chile  
 Laura Gallardo, Universidad de Chile  
 Maria Christina Fragkou, Universidad de Chile  
 Rodolfo Sapiains, Universidad de Magallanes  
 Lennart Mårtensson, Kristianstad University

**Research Themes :**  
**Memory, heritage and coloniality. Linkages between Chile and Sweden**



**Results**

The linkages between Sweden and Chile have a long but relatively unknown history. This is especially true when it comes to Patagonia, a territory considered as a no man's land by the first Swedish travellers that arrived at its coasts at the end of the 19th century. A central question in this context is how a rethinking of the historical linkages between Sweden and Chile can contribute to the recovery of patrimonial values and the recognition of the rights of indigenous people. Reflecting these linkages, this workshop looked for papers on heritage, colonialism and memory from various standpoints and different theoretical frameworks.

As an outcome, the group addressed that the complexity of the current global crisis requires new practices of knowledge production that deal with epistemic injustice, adopt multiscale socio-spatial-temporal approaches and create spaces of dialogue to develop ethical, decolonised and creative enhancement of the work with sustainability goals.

**Future cooperation and initiatives:**

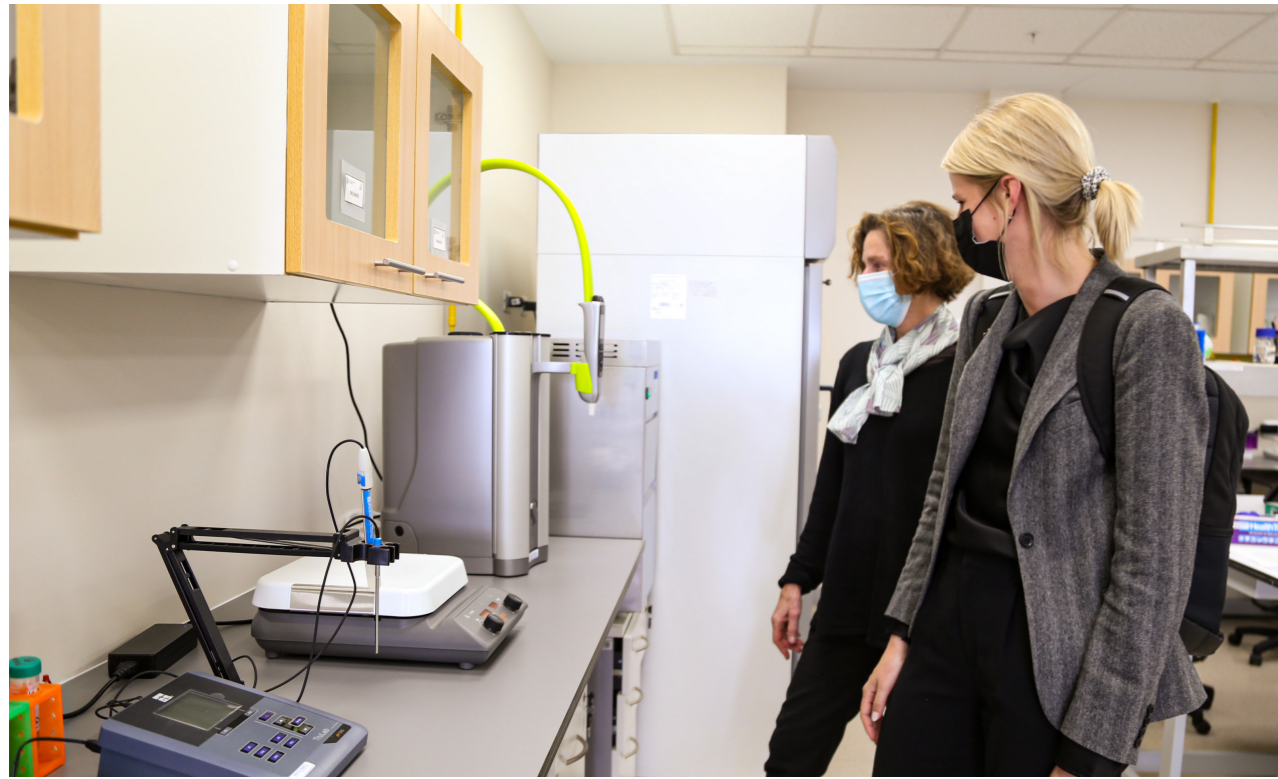
The research group will work towards a common publication and is already planning an online follow-up meeting next year.

**Participants:**

Paulina de los Reyes (PI), Stockholm University  
 Marisol Facuse (PI), Universidad de Chile  
 Lars-Henrik Stål, Lund University  
 Irene Molina, Uppsala University  
 Alejandra Botinelli, Universidad de Chile  
 Carolina González, Universidad de Chile  
 Lelya Troncoso, Universidad de Chile  
 Flavia Morello, Universidad de Magallanes  
 Alejandro Nunez, Universidad de Magallanes  
 Luz Martinez, Universidad de Chile  
 María Consuelo Arias, P. Universidad Católica  
 Lorena Sanhueza, Universidad de Chile  
 Nicolas Lira, Universidad de Chile

**Research Themes :**

**New technologies, policies, and initiatives towards preventing and reducing marine pollution and its consequences: improving the sustainability of life below water**

**Results**

The main purpose of this workshop was to bring together marine and freshwater scientists, veterinary scientists, and engineers dealing with water, on the joint theme of pollution of aquatic environments for promoting sustainable life under water. The primary aim was to learn about each other's research and water-related sustainability issues in each of our countries. The workshop was set up to promote an environment favorable to brainstorming and sharing ideas and methodology, as well as an environment to build up trust among the members. The ultimate goal was to initiate potential future collaborative and interdisciplinary research projects.

The overall results were as follows:

Human activities result in changes in marine ecosystems, water flow, nutrients, pH, oxygen, altering water conditions to sustain life. From the discussion, the group would like to explore these changes from two angles. The study the dynamics of different pollutants and technologies to reduce the impact of water pollution via filtration and recovery of valuable compounds, as for example antimicrobials, contaminants, nutrients or any pollutant coming or natural or anthropogenic origin. Also, understanding water pollutants dynamics via mathematical modelling using an engineer approach, will allow a better prediction of the organic and inorganic particles movement. This assessment can be used for further mitigation of particles concrescences, as well as to monitor suspended materials, different kind of pollutants, and planktonic cells.

Also, the group would like to explore sudden changes in human activities on marine microbiota at the base of the food web. Specifically, they would like to investigate the past changes in the Magellan sound utilizing palaeoceanographic methods to investigate biotic and abiotic changes from the present to pristine conditions 10,000 years in the past. Simultaneously they would like to study changes on land including demographic changes as well as changes in land use (agriculture-foresting-grazing), and marine activities (shipping, aquaculture). Thereby, they would like to collaborate with representatives from the social sciences/archeology, seeking to mitigate recent impacts of aquaculture by providing sustainable aquaculture approaches.

**Future cooperation and initiatives:**

Fund hunting from each side associated with or to explore: Reducing the impact of water pollution via filtration and recovery of valuable compounds (bio compounds circularity).

**Participants:**

Karin Rengefors (PI), Lund University  
 Javiera Cornejo (PI), Universidad de Chile  
 Jurij Wacyk (PI) Universidad de Chile  
 Luca Brandt, KTH  
 Jing Li, Lund University  
 Frank Lipnizki, Lund University  
 Helena Filipsson, Lund University  
 Alyssa Joyce, University of Gothenburg  
 Victor Lobanov, University of Gothenburg  
 Cristian Escauriaza, P. Universidad Católica  
 Matías Contreras, P. Universidad Católica  
 Jose Manuel Yáñez, Universidad de Chile  
 Joseph Govan, Universidad de Chile  
 Lina Trincado, Universidad de Chile  
 Pablo Salgado, Universidad de Chile  
 Raimund Bürger, Universidad de Concepción  
 Claudia Andrade, Universidad de Magallanes  
 Max Frangopulos, Universidad de Magallanes

## Research Themes : Social (In)justice, indigeneity and sustainable future(s): Recognition, interrogation and re-existence

### Results

The main purpose of this theme is to offer a relational mode of enquiry through decolonial thought in Nordic and Latin American indigenous contexts and by enriching and nuancing them through the perspectives of Sámi, Mapuche, other indigenous people (such as Kaweskar and Selknam) as well as multilingual communities. The approach is interdisciplinary and engages with the domains across the Humanities, Social and Natural Sciences. We focus on three dominant frames which shape the material realities of indigenous and other multilingual communities in Chile and Sweden: Resistance, Recognition and Re-existence.

The workshop members suggested groupings which encapsulate concepts that informed the presentations: Languages, Multilingualism and Linguistic citizenship, Coloniality, Coloniality of power and [De]coloniality, Human/ Social/ Linguistic rights, Agency, Autonomy and Activism Intersectionality, Indigenous Territoriality, Resources and Extraction(s), Migrants and Mobility, and Social (in)justice, Memory and Future imaginaries

The conclusions were as follows:

1. Varied methodological and transdisciplinary approaches to investigate different arenas of social injustice.
2. Re (assemble) experiences and local knowledge(s) to build sustainable futures.
3. Extend theoretical knowledge to include other expressions of understanding social realities for example through art and poetry. This enables us to bridge the silences and understand social issues through the perspectives of the marginalised- through their visions and voices.
4. The recognition of multilingual repertoires in society, that is, the possibilities to use and develop multilingualisms in daily life, schooling and higher education and their close relationship to social (in)justice.



### Future cooperation and initiatives:

The workshop participants agreed on the following activities:

- Periodic zoom meetings.
- A joint publication to thematically consolidate the ideas shared and developed in the workshop.
- A transdisciplinary PhD course.
- To connect their current teaching to resistance, recognition and re- existence- bridging theory and praxis? Incorporating theoretical and empirical understandings from the Global South would address structural inequalities that exist in teaching and research. It will be a positive way to move towards decolonizing the curriculum.

### Participants:

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## Research Themes : Sustainable aquatic food production systems



### Results

The purpose of this workshop was to focus on the ecological, economic and societal sustainability of aquatic food production, looking at the whole value chain of farmed seafood, from primary production, diversification of species and production systems, aqua-feed development, products, and product development, to sustainability assessment of seafood value chains.

The workshop revisits ongoing national initiatives, including the Swedish Mariculture Research Centre (SWEMARC, UGOT), the newly Formas financed national Blue Food – Centre for future seafood, and the CONICYT-funded Program for the Diversification of Chilean Aquaculture (PDACH), initiatives that include several ACCESS-linked Swedis and Chilean universities.

At the end of the workshop, the group had found several common points between the research groups from Swedish and Chilean Universities, establishing several agreements to collaborate in ongoing research associated with two main topics. The first topic was the diversification of species and aquaculture systems, in which we agree to collaborate in the following research lines: (i) Combine molecular and physiological techniques to unravel stress and welfare mechanisms and effects of environmental stressors; (ii) Stress and welfare indicators in invertebrates; (iii) Protocols and increased basic biological knowledge for “new” aquaculture species – parallel work with local (cusk eel/wolffish, sea urchin/sea cucumber, king crab/lobster); (iv) Co-culturing and IMTA – parallel work with local species, transfer of knowledge and experiences.

The second topic was Alternative feed and raw material development, in which we agree to collaborate in the following research lines: (i) Formulation and production of novel feeds using local raw materials, focus on marine ingredients; (ii) Utilization of by-products from aquaculture, agriculture and industry as feed ingredients; (iii) Utilization of novel biorefining methods (fermentation for algae processing). The group further agreed on the necessity of setting these collaborative research and developments into a sustainability context and opened for life cycle analyses of the research where possible. These collaborations will be executed through a joint initial review publication on Sweden-Chile aquaculture challenges for sustainability, the collaboration within already ongoing research projects, joint research applications, intellectual collaborations and young researcher interchange.

### Future cooperation and initiatives:

The workshop group established a well-structured collaboration schedule that includes short terms initiatives and medium-term initiatives.

The short-term initiatives include direct involvement in ongoing projects through the exchange of knowledge, ideas and shorter visits by young researchers between Sweden and Chilean groups, the writing of a review article on the identified challenges for aquaculture sustainability in Chile and Sweden, and planned research coordinated meeting to follow the research collaborations.

The medium-term initiatives include joint research applications to international funding, as well as bilateral exchanges for young researchers for more extended times. Finally, we plan to continue the discussion on these collaborative research topics between Sweden and Chilean groups with a new meeting in the ACCESS Forum 2024, to reinforce the collaboration, evaluate the short and medium-term collaboration initiatives that will be performed in 2023 and 2024, and generate new collaborations in sustainable aquaculture production for Chile and Sweden.

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