

The national board of Science for Life Laboratory

Minutes from board meeting no 61, February 2, 2023

Present members

Ylva Engström (SU)(chair), Henrik Cederquist (SU), Lena Eliasson (LU), Anders Gustafsson (KI), Mats Larhed (UU), Carina Mallard (GU), Annika Stensson Trigell (KTH), Christoph Varenhorst (AstraZeneca)

Other participants

Olli Kallioniemi (Director), Mia Phillipson (Co-Director), Annika J Jensen (Infrastructure Director), Jenny Alfredsson (Head of Operations/OO), Maria Cvijovic (§ 6), Titti Ekegren (OO, § 6), Sandra Falck (Vice Head of Operations/OO), Disa Hammarlöf (OO, §§ 2-4), Anna Lidin (OO §§ 1-4), Heidi T Persson (OO, § 6), Gunilla Westergren-Thorsson, Ulrika Wallenquist (OO, § 6), Anna Höglund Rehn (OO, secretary)

1. Meeting formalities

Ylva Engström welcomed all members and opened the meeting.

Decisions:

The SciLifeLab board appointed Henrik Cederquist to approve the minutes of the meeting in addition to the chair.

The SciLifeLab board approved the minutes from meeting no. 59 and no. 60.

No other item was included in the agenda.

2. Update from the Director

Olli Kallioniemi presented the quarterly update from SciLifeLab.

3. Financial update

Jenny Alfredsson informed about the year-end national surplus at KTH and UU as of closing of the books 2022 and presented a brief financial overview of the different sources of funding to SciLifeLab, in light of the agreed budget for 2023 and an overview of the financial cycle for 2023.

4. SciLifeLab Annual report 2022 VC-2022-0059

SciLifeLab annual report is a key document describing the activities and progress of SciLifeLab over the past year. Following approval by the SciLifeLab board, the KTH board takes the formal decision to approve the annual report for SciLifeLab as part of the KTH's own annual report to the government.

Jenny Alfredsson presented the SciLifeLab Annual report 2022 (financial parts not included).



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Decisions:

The SciLifeLab board approved the annual report for SciLifeLab 2022 to be presented to the KTH board for final approval. Decision on the financial parts of the report will be made per capsulam.

5. Director for SciLifeLab – requirements for the appointment VC-2022-0060

The mandate for Olli Kallioniemi as Director for SciLifeLab ends 30 June 2024. In the regulation (Förordning om Nationellt centrum för livsvetenskaplig forskning), 3§, it is stated that the SciLifeLab board appoints the Director for SciLifeLab.

At meeting no. 60, 6 December 2022, the board appointed a nomination committee and established tasks for the committee.

Ylva Engström informed about the work of the nomination committee and draft requirements for the appointment.

6. SciLifeLab and Wallenberg National Program for Data-Driven Life Science, DDLS

6a. Director's status update

Olli Kallioniemi gave an update regarding the DDLS program.

6b. Presentation of the DDLS research school Director VC-2022-0079

SciLifeLab's Director has decided to assign Marija Cvijovic, professor in computational biology, Department of Mathematical Sciences, Chalmers University of Technology and University of Gothenburg, as the national DDLS research school director for two years (from 2022-11-15 until 2024- 11-15).

Marija Cvijovic presented herself and her ideas for the national DDLS research school.

6c. Process for nomination and task of the management group for the DDLS research school VC-2023-0008

The Knut and Alice Wallenberg donation letter (KAW 2020.0239) describes 40 academic PhD students and 15 industrial PhD students to be funded for phase II (start March 2024) with additional PhD students as well as post-docs in the following phases. A total of 185 PhDs (of which 45 industrial) and 135 post-docs (of which 45 industrial) are stated in the donation letter, not counting the PhDs and post-docs included in the DDLS fellows funding package. To ensure training and networking and to create a community for the PhD students and post-docs a DDLS research school (RS) will be set up.



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The research school is suggested to have a management group (RSMG) with the responsibility for the quality of the school and its content. The chair of the RSMG is the research school director. Olli Kallioniemi informed about the suggested process for nomination and task of the management group.

Decisions:

The SciLifeLab board approved the suggested composition of the Research School Management Group) and the suggested nomination process.

Delegate	Nomination process
Research school director (chair)	Assigned from 2022-11-15 until 2024- 11-15
4 Research Area representatives (i.e. fellow/ RA-expert group)	DDLS fellows and RA-expert groups nominate themselves or each other (only DDLS fellows or RA representatives)
1 Industry representative	Open invitation on webpage and via directed emails
1 Training representative	The SciLifeLab Training platform nominates
1 DDLS Steering Group-representative	DDLS Steering Group nominates representative
1 Ethical Conduct representative (Operations office)	Operation Office nominates representative
1 PhD/post-doc representative	Invitation to DDLS fellows PhD students in the first phase. When the DDLS research school is up and running then the PhD/postdoc council will nominate

The SciLifeLab board approved the responsibilities and delegation thereof for the Research School Management Group (appendix 1).

6d. DDLS Fellow recruitments phase 2 VC-2023-0009

The first phase of DDLS Fellows recruitments is almost concluded and 16 out of 20 Fellows have accepted their offered positions. The remaining four positions have been re-announced and recruitments are underway. The second phase of the DDLS Fellow recruitments, where 19 positions are to be announced, will start in April 2024 in compliance with the KAW donation letter. The generic text describing the DDLS



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program and strategic research areas that all partners must include in the announcements when recruiting DDLS fellows have been revised.

Olli Kallioniemi informed about the process and timeline for DDLS Fellow recruitment, phase 2, and about the suggested generic recruitment texts.

Decisions:

The SciLifeLab board approved the revised generic recruitment text, with small adjustments, and the process and timeline for DDLS Fellow recruitments, phase 2 (appendix 2).

6e. WASP and DDLS joint call for research visits 2023 VC-2023-0010

In the donation letter for DDLS from The Knut and Alice Wallenberg foundation (KAW), funds have been allocated for collaboration with another KAW financed research program, Wallenberg AI, Autonomous Systems and Software Program (WASP). The goal is to form multi-disciplinary collaborations and to bridge the gap between the life science and data science communities.

A first joint call was launched in June 2021 and received 72 applications of which 15 were approved for funding. A new similar joint call was launched in the middle of December 2022 with a closing date at the end of March 2023.

This call, a research visit program, is a flexible cross-program collaboration where a project participant from one of the WASP/DDLS programs is embedded within a research environment representing the other program. The research visit program is an opportunity that provides financial support for researchers or technical personnel to visit a different research environment, both nationally and internationally, to encourage continuous learning and professional development of staff. The intention of the call is to have five research visits per program per year over a five-year period. The maximum available funding for a research visit is 750 000 SEK which would result in 3,75 MSEK funding from the DDLS budget in 2023.

Olli Kallioniemi informed about the suggested call.

Decision:

The SciLifeLab board approved the call text and the process for the joint project call WASP-DDLS research visits 2023 (appendix 3).

The SciLifeLab board delegated to the DDLS Steering Group to decide on the funding according to the approved process.

The SciLifeLab board delegated to the DDLS Director to finalize any remaining issues with the call text.



6f. WASP-HS DDLS joint call for seed money 2023 VC-2023-0011

In the donation letter regarding DDLS from The Knut and Alice Wallenberg foundation (KAW), funds have been allocated for collaboration with another KAW financed research program, Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society (WASP-HS). The goal is to form multidisciplinary collaborations and to bridge the gap between the different research communities.

The first joint call was launched in June 2022 and received four applications whereof the SciLifeLab board approved three. A new similar joint call is suggested to be launched again in the middle of February 2023 with a closing date 1 April 2023. After reviewers from both WASP-HS and DDLS have evaluated the submitted applications, the decision of grant approval is to be taken by the SciLifeLab board in May 2023 and projects are estimated to start in the fall of 2023. The funding for the projects, 3 MSEK, will be provided by the DDLS program since no funding is allocated for the collaboration within the current WASP-HS donation letter.

The aim and scope of this call is to provide seed money for research investigating human and social challenges of data-driven strategies developed within the life sciences, facilitate the establishment of collaborations between researchers from DDLS and WASP-HS and give researchers from DDLS and WASP-HS resources to develop joint research projects.

Olli Kallioniemi informed about the process and the suggested call text.

Decision:

The SciLifeLab board approved the process and the call text for the WASP-HS and DDLS joint call for seed-money 2023 (appendix 4).

The SciLifeLab board delegated to the DDLS Director to finalize any remaining issues with the call text.

7. Platform Directors' appointments VC-2023-0012

At the meeting no 51 on 19 May 2021, the SciLifeLab board approved Platform Directors and Platform Co-Directors' appointments for 2021–2024. For the Metabolomics Platform, Anders Nordström and Thomas Moritz have decided to step down as Platform Director and Platform Co-Director.

Annika J Jensen informed about the background and the suggestion to appoint Johan Trygg, Umeå University, as a new Platform Director and Rikard Landberg, Chalmers, as a new Platform Co-Director for the Metabolomics Platform.

Decision:

The SciLifeLab board appointed Johan Trygg as Platform Director and Rikard Landberg as Platform Co-Director for the Metabolomics platform until 31 December 2024.



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8. **Director's decisions 2022**

Olli Kallioniemi informed about decisions made 2022 by the Director or the Co- Director.

Decision:

The SciLifeLab board noted the information to the minutes.

9. Plans and activities at SciLifeLab and DDLS during 2023

Olli Kallioniemi informed about plans and activities at SciLifeLab, and DDLS, during 2023.

10. Other issues

No other issues were raised.

Upcoming meetings

- Wednesday May 24, 11.00-17.00 in Uppsala
- Tuesday September 26, 8.30-12.00 Zoom
- Wednesday November 8, 10.00-15.00 in Solna

<u>Augustoghud Pehn</u> Anna Höglund Rehn, secretary

Minutes approved by:

Ylva Engström

Henrik Cederquist



Overview of DDLS Research School organization

Background

The SciLifeLab and Wallenberg National Program for Data-Driven Life Science (DDLS) is a 12-year program focusing on data-driven research, within the research areas of Cell and Molecular Biology, Precision Medicine and Diagnostics, Evolution and Biodiversity and Epidemiology and Biology of Infection. SciLifeLab (Science for Life Laboratory), as a national infrastructure for life science, coordinates this program in collaboration with ten partner universities (Chalmers University of Technology, University of Gothenburg, Karolinska Institutet, Royal Academy of Technology, Linköping University, Lund University, Swedish University of Agricultural Sciences, Stockholm University, Umeå University and Uppsala University) and the Swedish Museum of Natural History.

The purpose of the program is to recruit and train the next-generation of data-driven life scientists, and to create strong and globally competitive computational and data science capabilities in Swedish life science. To achieve this, the program will recruit 39 eminent group leaders as DDLS Fellows, and establish a research school for the more than 250 PhDs and 200 post-docs, within both academia and industry. The program also aims to strengthen national collaborations between universities, bridge the research communities of life- and data sciences, and create partnerships with industry, healthcare and other national and international actors.

The research school starts in 2024.

Vision and Aim of the Research School

Vision: To train future researchers with a high competence within the DDLS area. The research school will meet the future needs within data-driven life sciences in R&D, industry, health care and society at large.

Aim: To create a collaborative network and an environment in which synergy between education, research and innovation is reflected and strongly integrated into graduate education. To provide PhD students and postdocs with a context, knowledge and skills necessary to perform cutting-edge research within the field of DDLS and with a direct impact on the societal challenges we are facing.



Organization

The SciLifeLab Board is the decision-making body for the DDLS program and the operations are managed by the Program Director in collaboration with the DDLS Steering Group members. Thus, the overall decision body for the DDLS Research School (RS) is also the SciLifeLab Board.

The role of the DDLS Steering Group is to plan and coordinate the DDLS program and to prepare and execute decisions for the SciLifeLab Board in DDLS matters.

An operative research school management group assists the DDLS Steering Group in the preparatory work related to the DDLS research school, according to mandates and responsibilities for the different decision-making bodies.

The SciLifeLab Board

The overall decision body for the DDLS RS is the SciLifeLab Board. The board decides on the organizational structure and the funding of the RS, as well as the models of recruitment of PhD students and post-docs.

DDLS Steering Group

The DDLS Steering Group (DDLS SG) is the preparatory body for decisions regarding the research school that are decided by the SciLifeLab Board (mainly budget). The DDLS SG is the link between the SciLifeLab Board and the operative Research School Management Group (defined below). DDLS SG has the mandate to:

- Initiate the recruitments processes of PhD students (and post-docs)
- Approve of PhD projects (after evaluation by appointed group)
- Appoint the delegates in the Research School Management Group (see below).

Research School Management Group

The Research School Management Group (RSMG) is the operative group that closely works with the research school managers and personnel from the Operations Office (OO). It has several responsibilities and mandates:

- Preparation of the RSMG budget for the DDLS SG and for the national SciLifeLab board. Executing decisions from DDLS SG and the SciLifeLab board.
- Responsibility for scientific excellence and quality of courses and range of courses offered in RS



- Responsibility for follow-up on PhD students
- Responsibility for up-to date connection to research
- Initiating external evaluation of the research school in coordination with the DDLS SG
- Suggesting funding for PhD and Post-doc candidates (after evaluation by appointed group) for approval by the DDLS Director

The research school management group will be chaired by the director of RS and have appointed members that represents the DDLS program and the research school:

- 4 Research area-representatives (i.e. DDLS fellows/ RA-expert group members)
- 1 Industry representative
- 1 Training representative (i.e. representative from the SciLifeLab Training platform)
- 1 DDLS Steering Group-representative
- 1 Ethical Conduct representative (representative from OO)
- 1 PhD/post-doc representative

Representatives in RSMG are elected for 2 years (PhD students 1 year) with the possibility of prolongation

Research School Director

The Research School Director (RSD) is an 0,4 FTE 2-year long assignment with a possibility for prolongation. The assignment for the RS director is decided by the DDLS Program Director or SciLifeLab Director after consultation of the DDLS SG (VC-2022-0079).

Research School Managers

Research School Managers (RSM) provide, together with the RSD, the daily operational support that is needed to run and administer the research school.

Operations Office, The SciLifeLab Training platform and Data Centre

The DDLS research school will be supported by other units within SciLifeLab within each areas of expertise.

Operations Office: budget, event, communication, management support, external relations etc.

The SciLifeLab Training platform: training and education



Data Centre: IT- and data management issues

Advisory organs

There are several advisory organs that provides input to the DDLS RS: DDLS National Reference Group (DDLS NRG), DDLS fellows, DDLS Research Area (RA) experts groups and Training Reference Group (TRG). These advisory organs ensure input on a national level from all partners as well as DDLS expertise.



Schematic view of the DDLS research school organization



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DDLS recruitment texts - Recruitments 2023

Each University/NRM-puts their own descriptive text here

Generic description of the DDLS Fellows program

Data-driven life science (DDLS) uses data, computational methods and artificial intelligence to study biological systems and processes at all levels, from molecular structures and cellular processes to human health and global ecosystems. The SciLifeLab and Wallenberg National Program for <u>Data-Driven Life Science (DDLS)</u> aims to recruit and train the next-generation of data-driven life scientists and to create globally leading computational and data science capabilities in Sweden. The program is funded with a total of 3.1 billion SEK (about 290 MUSD) over 12 years from the Knut and Alice Wallenberg (KAW) Foundation.

The DDLS program will recruit 39 high-profile young group leaders and launch over 210 postdoctoral positions and establish a research school for 260 PhDs, including industry PhDs and postdocs. Fellows will be recruited to the 11 participating host universities/organizations, but brought together under a national DDLS program coordinated by SciLifeLab. The DDLS program has four strategic areas: cell and molecular biology, evolution and biodiversity, precision medicine and diagnostics, epidemiology and biology of infection. For more information, please see www.scilifelab.se/data-driven.

During 2022-2023, the first round of 20 young group leaders joined us as DDLS Fellows, and now we are looking to recruit an additional group of 19 fellows. Each DDLS Fellow will receive a recruitment package of 17 MSEK (about 1.6 MUSD) for a 5-year period, covering their own salary and other resources, such as two PhD students and postdoc positions. The Fellow positions are tenure-track with the host organizations assuming responsibility of the long-term faculty appointments following a tenure evaluation.

The future of life science is data-driven. Will you be leading that change with us? Then join us in this unique program!

Generic subject descriptions:

At [host university/organization], we are looking to fill the position as DDLS fellow in xx. (xx = one of the DDLS areas below).

Data-driven precision medicine and diagnostics covers data integration, analysis, visualization, and data interpretation for patient stratification, discovery of biomarkers for disease risks, diagnosis, drug response and monitoring of health. The precision medicine research is expected to make use of existing strong assets in Sweden and abroad, such as molecular data (e.g. omics), imaging, electronic health care records, longitudinal patient and



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population registries and biobanks.

The **subject area** concerns research in the general area of **precision medicine and diagnostics**, with a strong computational profile. This research subject area aims to lead to innovative development and/or application of novel data-driven methods relying on machine learning, artificial intelligence, or other computational techniques.

or

Data driven epidemiology and biology of infection covers research that will transform our understanding of pathogens, their interactions with hosts and the environment, and how they are transmitted through populations. Research will have a strong focus on computational analysis or predictive modeling of pathogen biology or host-microbe systems for which multidimensional, genome-scale experimental data are now available or it may use population-scale genetic, clinical, or public health data from pathogen surveillance efforts and biobanks.

The **subject area** concerns research in the general area of **epidemiology and biology of infection** with a strong computational profile. This research subject area aims to lead to innovative development and/or application of novel data-driven methods relying on machine learning, artificial intelligence, or other computational techniques.

or

Data driven cell and molecular biology covers research that fundamentally transforms our knowledge about how cells function by peering into their molecular components in time and space, from single molecules to native tissue environments.

The **subject area** concerns research in the general area of **cell and molecular biology**, with a strong computational profile. This research subject area aims to lead to innovative development and/or application of novel data-driven methods relying on machine learning, artificial intelligence, or other computational techniques.

or

Data driven evolution and biodiversity concerns research that takes advantage of the massive data streams offered by techniques such as high-throughput sequencing of genomes and biomes, continuous recording of video and audio in the wild, high-throughput imaging of biological specimens, and large-scale remote monitoring of organisms or habitats.

The **subject area** concerns research in the general area of **evolution and biodiversity** with a strong computational profile. This research subject area aims to lead to innovative development and/or application of novel data-driven methods relying on machine learning, artificial intelligence, or other computational techniques.



Process and Time line for DDLS Fellow recruitment, Phase 2

Nov 2022 – Jan 2023	Preparing process and updating generic texts
Jan 19, 2023	DDLS SG agree to send process, time line and revised texts to SciLifeLab board for approval (meeting no. 21, 2023-01-19, §8)
Feb 2, 2023	SciLifeLab board meeting – approval of generic recruitment texts, process and time line
Feb – May 2023	Partners prepare fellow profiles
May 24, 2023	SciLifeLab Board meeting – approval of profiles before advertisement
July 15 – Oct 15, 2023	Coordinated joint National and International announcement of positions
Oct 2023 –	Evaluation and selections according to SOP at partners supported by DDLS
April 2024	Steering group representative
Nov 2023 –	Approval of candidates by SciLifeLab board (decision by
April 2024	the chair of the SciLifeLab Board)
April 2024	First DDLS Fellow accept offer



23-01-19

WASP and DDLS joint call for research visits



1. OFFICIAL CALL TEXT

WASP AND DDLS ANNOUNCE A JOINT CALL FOR RESEARCH PROJECTS

The SciLifeLab and Wallenberg national program for Data-Driven Life Science (DDLS) was launched in 2020 by the Knut and Alice Wallenberg Foundation (KAW). DDLS is a 12-year funding initiative to support data-driven life science in Sweden across 11 universities and institutions with SciLifeLab as the host. The program will focus on four strategic research areas of data-driven research:

- Cell and molecular biology
- Evolution and biodiversity
- Precision medicine and diagnostics
- Epidemiology and biology of infection

SciLifeLab and KAW share the ambition to foster the next generation of life scientists by creating a solid computational and data science base that helps scientists analyze and interpret data patterns and seamlessly integrate their data with the global life science data streams. Central components of DDLS include education, training, recruiting new talent, sparking collaborations, and engagement in innovation activities.

<u>Wallenberg AI, Autonomous Systems and Software Program (WASP)</u> is Sweden's largest individual research program and provides a platform for academic research and education, fostering interaction with Sweden's leading companies. The program addresses research in artificial intelligence, autonomous systems, and software as enabling technologies for developing systems acting in collaboration with humans, adapting to their environment through sensors, information, and knowledge, and forming intelligent systems of systems. WASP strengthens, expands, and renews the national competence through new strategic recruitments, a challenging research program, a national graduate school, and collaboration with industry. The program is conducted in close cooperation between leading Swedish universities to promote the competence of Sweden as a nation within the area of AI, autonomous systems and software.

AIM AND SCOPE

DDLS and WASP have a strong ambition to form solid collaborations and bridge the gap between the scientific disciplines of DDLS and WASP. The Knut and Alice Wallenberg foundation has reserved funding for such collaborations in their donations to both programs.

To strengthen the collaboration, DDLS and WASP now announce a research visit program call. The purpose of the program is to form collaborations by bridging the gap between the WASP and DDLS programs and contribute to knowledge transfer, benefiting both the person in the exchange as well as the involved environments.

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The research visit program is an opportunity that provides financial support for researchers to visit a different research environment, both nationally and internationally, to encourage continuous learning and professional development of staff.

The research visit program aims to establish new or deepen existing collaborations between WASP and DDLS areas, to provide knowledge about new techniques, new research, extend networks, etc.

The funded projects aim at contributing to the WASP/DDLS community and enlarge the critical mass by making data, resources, and code available in accordance with the FAIR principles. Project participants are expected to be active contributors and participants in community events, training activities, seminars, and symposia.

The aim is a flexible cross-program collaboration where a project participant from one of the programs is embedded within a research environment representing the other program.

After the research visit a brief report should, no later than two months after return, be handed in to the WASP Program Office/ DDLS research support.

WHO CAN APPLY?

The applicant is currently working in the scientific disciplines of DDLS or WASP and will do the research visit in the scientific discipline that corresponds to the other program.

The applicant should be a postdoc or a junior/senior researcher from WASP or DDLS.

An applicant from WASP should be employed at one of the WASP partner universities CTH, LiU, LU, KTH, UmU, or be part of affiliated groups of excellence at LTU, UU or ÖrU that are members of WASP and have their research focus within AI, Autonomous Systems or Software. Please note that it is **not** necessary to be a formal WASP faculty (that has signed a WASP affiliation agreement) to apply for this call.

An applicant from DDLS should work within data-driven life science within one of the four DDLS research areas and be affiliated with a Swedish university or The Swedish Museum of Natural History.

National Research Visits

The application must have **one applicant** from WASP or DDLS as described above **and** one **recipient host researcher** that is part of WASP or DDLS according to the same conditions as for the applicant described above.

International Research Visits

The application must have **one applicant** from WASP or DDLS as described above and one **recipient host researcher** at an international university with research in the corresponding WASP or DDLS research area. More specifically, a researcher from WASP should visit a research group that works in the field of DDLS research or vice versa.

BUDGET

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Total budget allocation per program: 18,75 MSEK (5 visits per year and program during 5 years)

Budget 2023: 3,75 MSEK per program (5 visits per program)

The maximum available funding for a research visit is 750 000 SEK. The visit extends for a minimum of 3 months and must start within one year from the decision and be completed within two years.

FINANCIAL INFORMATION

- The grants will be funded by KAW.
- The employer of the applicant is responsible for any necessary co-funding needed at each university/department.
- Overhead and premises costs will be covered according to respective program's terms and conditions.
- The maximum coverage for LKP (payroll overhead) is 50% of personnel costs.
- All costs applied are to be specified in the budget template. Eligible costs are for example:
 - Salary
 - Accommodation
 - Travel costs
 - OH costs according to each programs conditions (only applicable for national sabbatical)
 - Running costs (such as lab equipment and reagents)

Please check the budget template in the application system (Anubis) for more guidelines.

• Costs will be reimbursed by requisition to KAW. KTH and LiU will coordinate this process, and templates will be provided for this purpose at a later stage.

PROPOSAL STRUCTURE/FORMAT

Submission – how to apply

Link to application system with detailed information

Application form and word template

- 1. Name, affiliations of applicants
- 2. Plan for research visit (max 2 pages) with a clearly specified subject area and, when applicable, including data science and FAIR aspects
- 3. Explanation of the collaborative benefits for WASP and DDLS (max 1 page)
- 4. Short CV from the applicant and the recipient host researcher (max. one page each)
- 5. Commitment letter from the Head of the department where the applicant is employed.
- 6. Commitment letter for the recipient department, signed by the recipient host researcher and the Head of the department
- 7. Budget (template for overall budget).

EVALUATION CRITERIA

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Projects will be evaluated according to the following criteria:

- Novelty and Originality from a data-driven perspective
- Synergies in the planned collaboration, i.e. complementarity and team science
- Multi-Disciplinarity
- Scientific quality
- Merits of the applicants

We will also consider:

- Impact on life science and of the computational challenges addressed
- Open science and data-sharing aspects
- Impact on and relevance for WASP/DDLS community
- The industrial and societal relevance
- Diversity and gender of the applicants



2. CALL PROCESS INCLUDING EVALUATION

EVALUATION PROCESS

Members of the WASP DDLS joint national working group will evaluate the applications. Decision are taken once per semester by WASP (board? EXC? director? RMG?) DDLS Steering Group

Members in the joint WASP and DDLS national working group:

WASP

- Amy Loutfi (ÖrU)
- Bo Bernhardsson (LU)
- Danica Kragic (KTH)
- Ingrid Hotz (LiU)
- Joakim Jaldén (KTH)
- Martin Rosvall (UmU)
- Rebecka Jörnsten (CTH)

DDLS

- Erik Lindahl (SU)
- Carolina Wählby (UU)
- Matts Karlsson (LiU)
- Erik Kristiansson (CTH)

TIMELINE

Decision regarding call text and process WASP board meeting: February 7th 2023 SciLifeLab board meeting: February 2nd 2023

MATERIAL AND INFORMATION MANAGEMENT

- personal data will be collected and processed according to regulation
- DDLS system– Anubis

QUESTIONS REGARDING THE CALL

Two contact point coordinators one from each side. Functional email address will be used.

FINANCIAL INFORMATION

Financial report will be sent to KTH and/or LiU according to each program's financial instructions.



WASP-HS

2023-01-20

WASP-HS and DDLS joint call for seed-money 2023

WASP-HS AND DDLS ANNOUNCE A JOINT CALL FOR SEED-MONEY

Form of support: Seed-money

Focus: Research focused on a theme relevant to DDLS and WASP-HS

Applicants: 2 co-PIs, one from each of the fields of DDLS and WASP-HS

Contribution period: 12-15 months Grant amount: Minimum SEK 200 000 maximum SEK 500 000 Budget framework for the call: 3 000 000 SEK The grant period starts: September 2023 Application period: Feb-April 2023 The grant decision will be published: In May-June 2023

AIM

This call aims to provide seed money for research investigating the human and social challenges of data-driven strategies developed within the life sciences. The research should aim to increase the understanding of how using artificial intelligence (AI), autonomous systems, and data-driven methodologies in the life sciences, has effects and consequences in the life sciences, medicine, and/or society. The research should be of a visionary nature and have a clear potential for impact both within the life sciences and the humanities and/or social sciences. The call also aims to facilitate the establishment of collaborations between researchers from the data-driven- life sciences and the social sciences and humanities.

The call is open to researchers working in the life sciences, social sciences, and humanities, broadly construed. In the life sciences, the research must be related to data-driven approaches in molecular biology, evolution and biodiversity, prediction medicine and epidemiology or biology of infection (see DDLS research areas below). In the social sciences and humanities, research areas include, but are not limited to, philosophy, sociology, anthropology, political science, law, history, linguistics, languages, the creative arts, theology, etc. Examples of research topics include the study of ethical, legal, organizational, epistemic, economical, and cultural challenges as well as other possible topics outside of those listed.

The call is part of a long-term commitment by the Wallenberg Foundations, which aims to stimulate collaborative research between the data-driven life sciences, the social sciences, and the humanities. Possible future calls will include larger grants. This seed call offers an opportunity to initiate new interdisciplinary collaborations.

BACKGROUND

DESCRIPTION OF DDLS AND WASP-HS

<u>The SciLifeLab and Wallenberg national program for Data-Driven Life Science (DDLS)</u> was launched in 2020 by the <u>Knut and Alice Wallenberg Foundation</u> (KAW). DDLS is a 12-year funding initiative to support data-driven life science in Sweden with SciLifeLab as the host. The program focus is on four strategic research areas of data-driven research:

- Data-driven Cell and molecular biology
- Data-driven Evolution and biodiversity
- Data-driven Precision medicine and diagnostics
- Data-driven Epidemiology and biology of infections

SciLifeLab and KAW share the ambition to foster the next generation of life scientists by creating a solid computational and data science base that helps scientists analyze and interpret data patterns swiftly, and to seamlessly integrate their data with the global life science data streams. Central components of such a venture include: education, training, recruiting new talent, sparking collaborations, ensuring responsible research, and engagement in innovation activities.

The Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society (<u>WASP-HS</u>) is a research program in which researchers tackle the challenges and impacts of upcoming technology shifts and contribute to the development of theories and practices of human and societal aspects of AI and autonomous systems. The particular focus is on the ethical, economic, labor market, social, cultural, and legal aspects of the impacts that AI and autonomous systems bring.

The vision of WASP-HS is to realize excellent research and develop competence in the opportunities and challenges of artificial intelligence and autonomous systems with a strong investment in research in social science and humanities. This multidisciplinary approach is expected to advance our understanding of the challenges and impact of intelligent and autonomous technology, as well as contribute to the development of theory and practice of human and societal aspects of AI and autonomous systems.

DDLS and WASP-HS are both committed to forming meaningful collaborations to bridge the gaps between the scientific disciplines of DDLS and WASP-HS. The Knut and Alice Wallenberg foundation has earmarked funding for such joint efforts in their donation. This call for seed-money is a part of this collaboration and is intended to give researchers from DDLS and WASP-HS resources to develop such joint research projects.

REQUIREMENTS

Any researcher with a PhD affiliated at a Swedish University or The Swedish Museum of Natural History can apply. Applicants do not need to be currently part of, or funded by DDLS, SciLifelab, or WASP-HS to be eligible to apply. The seed collaborations must have two applicants who already have a PhD; one researcher from each of the fields related to DDLS and WASP-HS respectively.

Both applicants need to be actively participating in the project. An applicant can be involved in a maximum of two applications.

If relevant, the funded projects should make project outcomes open access (where legally and ethically possible) and be prepared to present their findings to the DDLS and WASP-HS communities. Any potential data, resources, and code should be made available in accordance with the FAIR principles. The projects will be expected to follow the national legal and ethical rules and regulations as well as those of their institutions and SciLifeLab, where applicable.

Project participants are expected to, where possible, be active contributors and participants in community events, such as seminars, and symposia.

The applicants should not previously have received seed-money from the WASP-HS DDLS joint call for seed money call in 2022.

BUDGET AND PROJECT DURATION

We expect to fund between 5-10 projects. Funded budgets are expected to lie typically between 200-500 KSEK for each project. Funding is divided 50/50 between PIs. Projects are expected to last between 12 and 15 months.

FINANCIAL INFORMATION

- The grants will be funded by KAW through KTH. Any necessary co-funding will be covered by each university/department.
- The KAW funding condition allows a maximum of 18% of the approved grant to be used for overhead and premises costs. Additionally, there is a maximum coverage of 50% for LKP (payroll taxes and social security contributions including holiday allowance %) on gross salary and allowance costs.
- All estimated project costs for the project period are to be specified in the budget

template that will be provided.

- The grant will be transferred retroactively for reported costs according to the approved funding,
- Requisitions and cost reporting will be sent biannually to the SciLifeLab Operations Office/KTH. KTH as SciLifeLab/DDLS program host university coordinates the cost reporting and reimbursement processes. All necessary templates will be provided for these purposes at a later stage.

PROPOSAL STRUCTURE/FORMAT

Submission – how to apply

One person applies as the main PI of the project with a commitment letter from the co-PI (co-applicant)

Link to application system with detailed information

Application form and word template

- 1. Name of project
- 2. Name, affiliations of main and co-PI
- 3. Project plan (max 2 pages)
- 4. The impact for both DDLS and WASP-HS fields (max 0,5 page)
- 5. Explanation of the collaborative benefits, the role of each of the PIs and parties and future plans beyond the seed funding (max 1 page)
- 6. Short CV and selected most relevant publications (max 10 publications) only for main PI and co-PI (co-applicant) (max 2 pages each)
- 7. Commitment letter for the main PI, should be signed by the Head of the department.
- 8. Commitment letter for the co-PI (co-applicant) should be signed by the co-PI (coapplicant) and by the Head of the department
- 9. Budget (template for overall budget)

EVALUATION CRITERIA

Projects will be evaluated according to the assessment of the combination of the following criteria:

- Scientific potential for novelty and originality from a data-driven life sciences, humanities, and social sciences perspectives
- Multi-disciplinarity
- Potential future impact
- Merits of the applicants in relation to their career stage
- Potential synergies in the planned collaboration,
- Merit of ideas and alignment with the visions and goals of DDLS and WASP-HS

We will also consider:

- Open science and data sharing aspects
- Future impact on and relevance for WASP-HS/DDLS community
- Industrial and societal relevance
- Complementarity of the applications (for example, gender balance, career stage, geographical distribution and project topic)

FOR QUESTIONS REGARDING THE CALL Contact <u>contact@wasp-hs.org</u> or <u>ddls-calls@scilifelab.se</u>

PART II PROCESS (not call text)

A joint work group with participants from DDLS and WASP-HS are preparing and planning for the call and the network meeting.

Timeline:	
Jan-Feb	Input from WASP-HS Management Team (MT) and DDLS Steering
	Group (SG) on call text and process
	Decision in SciLifeLab Board (2nd of February)
Mid Feb	Call opens
April 1st	Call closes (1st)
	Reviewing period (3 weeks)
Beginning of May	Assessment meeting
	Input from MT and SG on suggestion from meeting
May 24	Decision in SciLifeLab Board
Fall 2023	Project start

Review process: All calls are read by reviewers from both programs. Reviewers are suggested by workgroup (and SG/MT if needed) and approved by respective program directors. Reviewers will be contacted as soon as the call has opened. Assessment meeting will be held after the review (in May) with an assessment group consisting of representatives from DDLS and WASP-HS (same as reviewers or others). Projects will be ranked and discussed in SG and MT before decision in SciLifeLab Board May 24.

Additional:

The Anubis system will be used for the call. The call will be marketed via webpages for WASP-HS and SciLifeLab and additional sources.