The national board of Science for Life Laboratory

Minutes from board meeting no 53, 11 November 2021

Present members

Ylva Engström (SU)(chair), Fredrik Elinder (LiU), Anders Gustafsson (KI), Anders Karlhede (SU), Göran Landberg (GU), Lotta Ljungqvist (Cytiva)(§ 5e), Katrine Riklund (UmU), Stellan Sandler (UU)(until § 13), Annika Stensson Trigell (KTH)

Other participants

Olli Kallioniemi (Director), Mia Phillipson (Co-Director), Annika Jenmalm Jensen (Infrastructure Director), Gunilla Westergren-Thorsson (chair NSC)(from 4b), Jenny Alfredsson (Acting Head of operations/OO), Titti Ekegren (§ 5), Sandra Falck, Lars Johansson (§ 4), Anna Lidin (§§ 1-5), Andreas Muranyi Scheutz (from § 6), Johan Rung (5d-e), Heidi Törmänen Persson (§ 5), Ulrika Wallenquist (§ 5), Anna Höglund Rehn (secretary)

1. Meeting formalities

Ylva Engström opened the meeting.

Decision:
The SciLifeLab board appointed Göran Landberg to approve the minutes of the meeting in addition to the chair.

The SciLifeLab board approved the Chair decision VC-2021-0010.

The SciLifeLab board approved the minutes from meeting no. 52.

2. Update from the Director

Olli Kallioniemi presented the quarterly update from SciLifeLab.

3. SciLifeLab budget 2022

3a. Assignment levels

VC-2021-0055

SciLifeLab has taken several steps to increase transparency and to simplify budgeting and financial follow-up and reporting processes. In an effort to standardize compensation for people who are assigned to carry out a specific role or task at SciLifeLab two fixed levels of compensation, one for Scientific lead assignments and another for Coordinator assignments, are proposed.

Jenny Alfredsson presented the suggestion.

Decision:
The SciLifeLab board approved the compensation levels for two main types of assignments:

- *Senior Scientific assignments – 2 MSEK/year at 100% effort (Professor level or similar)*
- *Coordinator assignments – 1.2 MSEK/year at 100% effort*

3b. Pandemic Laboratory Preparedness (PLP) – budget 2022

VC-2021-0014

The Pandemic Laboratory Preparedness (PLP) effort within SciLifeLab has 30 MSEK available for 2022 via governmental funding. In the SciLifeLab board meeting on September 22, 2021, the preliminary budget was presented. The main goals for 2022 are to expand the national network, to evaluate the first round of work packages, and to start new capability building work packages. These efforts have already started and will be the main foci in the PLP work during 2022.

Jenny Alfredsson presented the suggestion.

Decision:
The SciLifeLab board approved the PLP budget for 2022 (appendix 1).

3c. Platforms and operations budget 2022

VC-2021-0049, VC-2020-0030

At the board meeting on September 22, 2021, Jenny Alfredsson gave an overview of the financial status of the different funding streams, a forecast for 2021 and the current surplus available. The base budget for the Platforms part for 2022 was presented to the board in a preliminarily format as part of the 2+2-year infrastructure plan when discussed with the board earlier this year.

Jenny Alfredsson presented an updated forecast for 2021 including the current surplus available, the finalized Infrastructure budget for 2022 (Platforms and Operations) and a new model for using DDD funding (LÄK).

Decision:
The SciLifeLab board approved reallocation of the following to add-on to the TDP call that is currently under way:

- *1.4 MSEK from the Precision Medicine Capability (2021)*
- *1 MSEK from the Director´s decision (2021)*
- *500 kSEK unused funds Cryo-EM screening node KI (2021)*
- *853 kSEK not allocated funds (2021)*

The SciLifeLab Board approved the new model for use of DDD-funding (LÄK).

The board approved the SciLifeLab Infrastructure budget for 2022 according to appendix 2.

3d. Drug Discovery and Development platform (DDD) budget
VC-2021-0049

The DDD platform has its own dedicated funding allocation from the government (LÄK). At the board meeting on September 22, 2021, Jenny Alfredsson informed about funding available and various options to cover DDD costs.

Jenny Alfredsson presented the suggested distribution of funding of the DDD platform. The suggested distribution of LÄK funding to DDD units 2022 has been prepared by the DDD platform.

Decision:
The SciLifeLab board approved the suggested distribution of funding to DDD units 2022 (appendix 3).

4. Funding of calls

4a. Technology development projects (TDP) call: suggested allocation of funding
VC-2021-0042

The purpose of the call for Technology Development Projects is to develop, or implement, novel technologies for incorporation as services within existing SciLifeLab infrastructure units. In May 2021, the second TDP call was announced directed towards the national infrastructure platforms and units. The 25 applications that were submitted, have been reviewed by the SciLifeLab Management group.

The call has more funds available than originally planned, due to the opportunity to reallocate unused funds from 2021 (see § 3c).

Annika Jensen informed about the reviewing process and suggested funding.

Decision:
The SciLifeLab board approved the allocation of funding (appendix 4).

The SciLifeLab board agreed that the Infrastructure Director, Director and Co-Director prepares an add-on decision to allocate the remaining 3 545 kSEK for 3-4 applications that also contribute to the capabilities for a decision by the Chair of the board.

4b. Expensive instrument call: suggested allocation of funding
VC-2021-0041

Since 2018, SciLifeLab has arranged annual calls for funding of expensive instruments (in the range of 2 MSEK and above) for the national infrastructure. About 20 MSEK is reserved annually from the national budget for this purpose.

For this year's call, platforms were allowed to submit 2–4 applications each, and were offered the option to rank their own applications at the platform level. Altogether 18 applications were received and three of the platforms had internally ranked their applications. The applications have been reviewed by the Management group.

Annika Jensen informed about the reviewing process and suggested funding.

Decision:
The SciLifeLab board approved the allocation of funding (appendix 5).

5. SciLifeLab and Wallenberg program for Data-driven Life Science (DDLS)
VC-2020-0034

5a. DDLS update

Olli Kallioniemi presented an update from the DDLS program.

5b. Reimbursement for DDLS steering group special assignments – policy
VC-2021-0056

The expected responsibility and mandate of the DDLS steering group (SG) is defined in the "SciLifeLab & Wallenberg National Program for Data-Driven Life Science (DDLS), Steering and organization" document approved by the SciLifeLab Board on February 3, 2021. The estimated percentage of effort is 20%, which is suggested not to be compensated. To operate the program, it is important that steering group members are able to take on additional tasks, special extra assignments, to use their expertise for the benefit of the program. To enable this engagement beyond the expected 20%, a fixed financial compensation based on effort will be offered to the host department of the steering group member.

Olli Kallioniemi presented the suggestion.

Decision:
The SciLifeLab board approved the model where DDLS SG members can take on special assignments and responsibilities that will be reimbursed to their host departments based on estimated effort for the specific task. The approval to receive compensation for the special assignment is further done via a SciLifeLab Directors decision and within an approved annual funding allocation for DDLS. The level of the

reimbursement is a fixed sum, based on effort, according to the model for fixed sums for SciLifeLab assignments (senior scientist or coordinator) (see § 3a).

5c. DDLS budget 2022

VC-2021-0050

The DDLS program is regulated by the KAW donation letter (KAW 2020.0239), and the SciLifeLab Board needs to approve the DDLS budget each year. At the Board meeting on February 3, 2021, a tentative three-year budget for the entire phase 1 of the DDLS program (2021-2023) was agreed upon, and subsequently approved by the KAW. The detailed budget for the year 2021 was then approved by the Board on May 19, 2021, and by the KAW on September 13, 2021. At the board meeting on September 22, 2021, Jenny Alfredsson informed about the suggested plans and activities for 2022. The detailed DDLS budget has since been approved by the DDLS Steering Group for presentation to the SciLifeLab board.

Jenny Alfredsson presented the detailed DDLS budget for 2022.

Decision:
The SciLifeLab board approved the detailed DDLS budget for 2022 (appendix 6).

5d. WASP-DDLS call – distribution of funding

VC-2021-0037

In the donation letter regarding DDLS from the Knut and Alice Wallenberg foundation (KAW), funds were allocated for collaboration with another major 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 life science and data science communities.

At the Board meeting no. 51 on May 19, 2021 the Board approved the process for launching a 40 MSEK joint call between WASP and DDLS, as well as the suggested call text. The joint call was launched on May 27, 2021, and by the deadline of September 1, 2021, 72 collaborative project applications had been submitted. In total 246 MSEK of funding was applied for with an equal distribution between WASP and DDLS areas (51% and 49%).

At the board meeting on September 22, 2021, Olli Kallioniemi informed about the process for the call.

Olli Kallioniemi informed about the assessment process and the challenges involved in evaluating such a multi-disciplinary call.

Decision:
The SciLifeLab board approved to fund the suggested projects under the condition that all signed support letters have been submitted. The decision is conditional upon the WASP board approving the same list and the approved projects will not be released until after the WASP board approval.

5e. DDLS Data Area Nodes and DDLS WABI staff – call for Expression of interest

VC-2021-0057

The DDLS donation letter specifies support to bioinformatics and data support through earmarked funding to WABI, which is organized by NBIS, and for data support and databases package, organized by the SciLifeLab Data Centre. The purpose is to build the national capability for data in a hub and nodes model with the DDLS partners, and strengthen the link between the central DDLS/DC technical data platform and the bioinformatics platform (NBIS) within the four different DDLS research areas.

Johan Rung presented the suggested call process.

Decision:
The SciLifeLab board approved launching the call for Expression of Interest for Data Area Nodes and WABI according to the suggested process with some changes to the time plan. The board also mandated the SciLifeLab Director to appoint an external advisory evaluation committee.

6. Pandemic Laboratory Preparedness (PLP) lead – prolongation of appointment

VC-2021-0014

SciLifeLab has received funds and a 4-year task from the government for setting up laboratory preparedness for future pandemics. The SciLifeLab board decided at the meeting no 49 on February 3, 2021, to appoint Prof. Staffan Svärd, UU Scientific Director, as a lead for the Pandemic Laboratory Preparedness (PLP) at SciLifeLab for a one-year period starting March 1, 2021.

Mia Phillipson presented the suggestion to prolong the appointment of Prof. Staffan Svärd as lead for the PLP until December 31, 2023. The task for the scientific lead is expected to be up to 50% effort, and will be funded from the pandemic laboratory preparedness funding.

Decision:
The SciLifeLab board decided to prolong the appointment of Prof. Staffan Svärd, UU Scientific Director, as a lead for the pandemic laboratory preparedness until December 31, 2023.

7. Precision Medicine leads

VC-2021-0012

At meeting no. 49, February 3, 2021, the SciLifeLab board decided to launch a call for a precision medicine lead for a one-year period starting summer 2021. At the meeting no. 51, May 19, the board decided to form a national SciLifeLab Precision Medicine Panel consisting of the nominated candidates Petter Brodin, Åsa Johansson, Janne Lehtiö and Päivi Östling (chair), initially nominated until the end of 2021. The group has developed a plan for "precision medicine preparedness" a capability that will also link up to the GMS and to the DDLS PM research area.

Mia Phillipson informed that Petter Brodin is not available to continue in 2022, and suggested that the current total of 0.75 FTEs is to be divided among the three remaining members, with Päivi Östling continuing to chair this activity, and hence having a larger FTE fraction. Päivi will be an adjunct member in the GMS board and in the expert group for DDLS PM research area.

Decision:
The SciLifeLab board decided to nominate Päivi Östling (chair), Janne Lehtiö, and Åsa Johansson as members of the SciLifeLab precision medicine panel, until December 31, 2022.

8. National sites 2022

VC-2021-0058

At the board meeting on February 3, 2021, the national sites concept (originally referred to as national nodes) was introduced and at the following board meeting on May 19 allocations of funding to pilot national sites in Umeå, Lund and Gothenburg were approved, and draft plans were presented by representatives from Gothenburg and Lund. In addition, Gothenburg, Umeå and Lund recently presented their plans to IAB. For 2022 the ambition is to continue to support the buildup of these new SciLifeLab national sites and include Linköping as a new site. The overall mandate is to coordinate SciLifeLab activities at each site but also to function as ambassadors for SciLifeLab as a whole.

Annika Jensen informed about the suggestion.

Decision:
The SciLifeLab board approved Gothenburg, Lund, Umeå and Linköping as national sites from 2022 and onwards with a mid-term checkup likely to take place in Q3 2022.

9. Platform Co-Director – Spatial and Single Cell Biology platform
VC-2021-0034

At the board meeting no 51 on May 19, 2021, Platform Directors, Co-Directors and Platform Coordination Officers were appointed. At that time no Co-Director for the Spatial and Single Cell Biology platform was appointed. Charlotte Stadler, KTH, is now suggested to be appointed as Co-Director for the platform. She will combine this position with her previous role as the Spatial and Single Cell Biology Platform Coordination officer.

Annika Jensen informed about the suggestion.

Decision:
The SciLifeLab board approved the suggestion that Charlotte Stadler, KTH is appointed Co-Director for the Spatial and Single Cell Biology platform until December 31, 2024.

10. Board meetings 2022

Decision:
The SciLifeLab board approved the following dates for meetings 2022:

Thursday January 27, 9.00-12.00 ZOOM

Wednesday March 9, 10.00-15.00 ZOOM

Tuesday May 31, 11.00-17.00 in Uppsala

Wednesday September 21, 10.00-15.00 ZOOM

Tuesday November 8, 10.00-16.00 in Solna

11. IAB meeting October 19-22, 2021
VC-2020-0031

The international advisory board of SciLifeLab had a meeting via Zoom on 19-22 October, 2021. Discussions took place on all aspects of SciLifeLab and many presentations were held. The IAB is expected to provide a full written report in December.

Olli Kallioniemi informed about the preliminary feedback from Jan Ellenberg, chair of IAB.

12. Annual report 2021
VC-2021-0059

Jenny Alfredsson informed about the Annual report 2021 process. As part of reporting back to the government on the SciLifeLab activities and funding, SciLifeLab writes an annual report that is included in the KTH annual report as an appendix. Following approval by the SciLifeLab board, the KTH board takes the formal decision to approve the annual report for SciLifeLab.

In order to incorporate the financial reporting after closing of the books at the end of the year, the approval by the SciLifeLab Board is always taken at the first SciLifeLab Board meeting of the year, then by the KTH board shortly after that.

As the financial reporting will not ready be for the SciLifeLab board meeting on January 27, the approval of the 2021 SciLifeLab annual report by the SciLifeLab board will have to be done in two steps. At the meeting on January 27 the text will be approved, while the financial reporting section will have to be approved by a per capsulam decision sent out a week later, on February 4.

DDLS economy will not be included in the financial reporting section of SciLifeLab Annual report as DDLS is funded by a private foundation. After discussing with KTH it has been decided that the DDLS economy will be described within the report as part of the section covering the DDLS program.

13. SciLifeLab Capability for Planetary biology – scientific lead
VC-2021-0060

Mia Phillipson informed about the suggestion to launch a research capability for planetary biology, which is a term that could hopefully unite diverse research themes, including topics of societal relevance, such as biodiversity, sustainability, impact of climate change and "one health". The first step towards this aim is to launch a call for the assignment of a scientific lead for planetary biology.

Decision:
The SciLifeLab board decided to launch a call for a scientific lead for planetary biology capability.

SciLifeLab board mandated the chair of the board, together with the Director and the Co-Director of SciLifeLab to finalize a call and set up a selection committee.

14. Stärkt fokus på framtidens forskningsinfrastruktur – SOU 2021:65
VC-2021-0061

The Tobias Krantz report on the steering of national infrastructures has been sent out for comments. Comments should be sent to the government on January 12, 2022, at the latest.

Olli Kallioniemi gave some general comments and informed about the suggestion on how to response to the report:

- Some coordinated key points and sentences that can be inserted in the host universities' responses.
- Separate respond to points of major interest from SciLifeLab.
- Harmonizing some points with MAX-IV and ESS.

Decision:
The SciLifeLab board decided to organize the response as suggested and delegated to the chair of the board and the Director to finalize the SciLifeLab specific response. The final version is to be provided to the board members for comments before submission to the government.

15. Other issues

15a. New Integration Director at KI

Anders Gustafsson informed that professor Urban Lendahl has replaced Stefan Eriksson as Integration Director at Karolinska Institute.

Upcoming meetings

- Thursday January 27, 9.00-12.00 ZOOM
- Wednesday March 9, 10.00-15.00 ZOOM
- Tuesday May 31, 11.00-17.00 in Uppsala (dinner afterwards)
- Wednesday September 21, 10.00-15.00 ZOOM
- Tuesday November 8, 10.00-16.00 in Solna

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Anna Höglund Rehn, secretary

Minutes approved by:

_____ _____
Ylva Engström Göran Landberg

Appendix 1

SciLifeLab Total budget PLP 2022	
	2022
PANDEMIC LABORATORY PREPAREDNESS (PLP)	
Scientific Lead- Prof. Staffan Svärd, 50%	1 000
Coordination, Dr. Monica Ekberg, 50%	600
Data Center, Big data support	2 000
LOI 2, Start July 1st 2022	18 000
Reimbursement reviewers LOI2	40
Reimbursement reviewers LOI1 evaluation and continuation	40
Clinical lab and Gov Authorities PLP research	8 000
LOI 1 Meeting, May 2022	100
Other activities, confernces, travel, increased salaries	220
Total costs	**30 000**
Funding	30 000
Sum	0

Appendix 2

SciLifeLab Infrastructure Budget 2022-Total			
	2021	2022	
PLATFORMS			
Sum Platforms	163 610	165 760	
Data Centre	9 000	9 000	
Precision Medicine Capability	500	4 400	
Other Capabilities	0	1 650	
Phase-out/down Mass Cytometry	1 600	800	
Phase-out/down Genome Engineering Zebrafish	0	0	
Phase-out/down Proximity Proteomics	0	0	
National site Gothenburg	500	1 000	
National site Lund	500	1 000	
National site Umeå	500	1 000	
National site Linköping	0	1 000	
Drug Discovery and Development	49 000	52 899	52 899 kSEK funded by LÄK
Oligonova	1 000	2 000	
New modality	1 000	2 000	2 000 kSEK funded by LÄK
HOST UNIVERSITY INITIATIVES			
Pilot units and other initiatives	0	0	
JOINT SCILIFELAB INITIATIVES			
Research Community Programs	0	0	
TDP Platform centric	12 653	0	
Infrastructure Expensive Instruments	9 223	13 910	
Directors decision	0	0	
Education and training	100	0	
OPERATIONS	**61 857**	**56 305**	1 674 kSEK funded by LÄK
Total costs	**311 043**	**312 724**	
Funding	309 461	312 423	
Sum	-1 582	-300	
Funding NAT	253 481	255 850	
Funding LÄK	55 980	56 573	

SciLifeLab Infrastructure Budget 2022-Platforms

	2021	2022
PLATFORMS		
Bioinformatics	**26 350**	**27 350**
Support, Infrastructure and Training	17 000	17 000
Compute and Storage	3 400	3 400
BioImage Informatics	3 600	3 600
AIDA Data Hub	1 000	2 000
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	1 000	1 000
Genomics	**50 050**	**50 050**
National Genomics Infrastructure UU	22 600	22 600
National Genomics Infrastructure Sthlm	21 900	21 900
Ancient DNA	2 000	2 000
Microbial Single Cell Genomics	2 000	2 000
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	1 200	1 200
Clinical Genomics	**14 850**	**14 850**
Clinical Genomics Gothenburg	2 100	2 100
Clinical Genomics Lund	2 100	2 100
Clinical Genomics Stockholm	5 000	5 000
Clinical Genomics Uppsala	2 500	2 500
Clinical Genomics Linköping	800	800
Clinical Genomics Umeå	800	800
Clinical Genomics Örebro	800	800
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	400	400
Clinical Proteomics and Immunology	**16 760**	**17 260**
Autoimmunity and Serology Profiling	2 400	2 400
Affinity Proteomics	5 060	5 060
Cellular Immunomonitoring	4 000	4 000
Global Proteomics and Proteogenomics	3 000	3 000
Glycoproteomics	1 500	2 000
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	450	450
Metabolomics	**5 500**	**5 400**
Swedish Metabolomics Centre	3 000	3 000
Exposomics	1 900	1 800
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	250	250
Spatial and Single Cell Biology	**14 400**	**14 150**
Eukaryotic Single Cell Genomics	5 000	5 000
Spatial Proteomics	3 500	3 000
In Situ Sequencing	2 400	1 900
Spatial Mass Spectrometry	1 500	2 000
Advanced FISH Technologies	1 250	1 500
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	400	400

Cellular and Molecular Imaging	**18 400**	**18 900**
Integrated Microscopy Technologies	6 500	6 500
Cryo-EM	11 000	11 500
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	550	550
Chemical Biology and Genome Engineering	**11 700**	**11 700**
Chemical Biology Consortium Sweden	6 000	6 000
Chemical Proteomics	1 700	1 700
CRISPR Functional Genomics	3 200	3 200
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	450	450
Integrated Structural Biology	**5 600**	**6 100**
Swedish NMR Centre	3 500	3 500
Structural Proteomics	1 500	2 000
Platform Director	150	150
Platform Coordination Officer	200	200
Strategic Platform budget	250	250
Data Centre	9 000	9 000
Precision Medicine Capability	500	4 400
Other Capabilities	0	1 650
Phase-out/down Mass Cytometry	1 600	800
Phase-out/down Genome Engineering Zebrafish	0	0
Phase-out/down Proximity Proteomics	0	0
National site Gothenburg	500	1 000
National site Lund	500	1 000
National site Umeå	500	1 000
National site Linköping	0	1 000
Drug Discovery and Development	49 000	52 899
Oligonova	1 000	2 000
New modality	1 000	2 000
HOST UNIVERSITY INITIATIVES		
Pilot units and other initiatives	0	0
JOINT SCILIFELAB INITIATIVES		
Research Community Programs	0	0
TDP Platform centric	12 653	0
Infrastructure Expensive Instruments	9 223	13 910
Directors decision	0	0
Education and training	100	0
Sum	***249 186***	***256 419***

Appendix 3

SciLifeLab DDD budget 2022

DDD

Platform	Unit	Lund	KTH	KI	SU	UU	LAK funding to units+new modality
Drug Discovery and Development	ADME UU					5 704 060	5 704 060
	Biochemical and Cellular Assays SU				5 536 435		5 536 435
	Biophysical Screening and Characterization UU					3 032 856	3 032 856
	Human Antibody Therapeutics KTH		6 831 080				6 831 080
	Human Antibody Therapeutics LU	1 477 395					1 477 395
	In Vitro and Systems Pharmacology UU					2 401 936	2 401 936
	Medicinal Chemistry-Hit2Lead SU				7 920 414		7 920 414
	Medicinal Chemistry-Lead Identification UU					3 624 199	3 624 199
	Protein Expression and Characterization KTH		5 826 704				5 826 704
	Target Product Profiling&Drug Safety Assessment KTH		2 300 000				2 300 000
	Target Product Profiling&Drug Safety Assessment KI			5 799 322			5 799 322
	Target Product Profiling&Drug Safety Assessment UU					4 444 600	4 444 600
Sum		1 477 395	14 957 784	5 799 322	13 456 849	19 207 651	54 899 000

Appendix 4

TDP Title	Submitter	Affiliation	Platform	Unit	Applied Funding (kSEK)	Decided Funding (kSEK)
BeyondFold – Advancing structural biology with deep-learning approaches	Björn Nystedt	UU	Bioinformatics	Support, Infrastructure and Training	1000	1000
AI-enabled virtual screening for chemical probes	Bengt Persson	UU	Bioinformatics	Support, Infrastructure and Training	1000	1000
Ultra-pooled SPLAT-seq (upSPLAT-seq) a method for cost-effective, large-scale pooled sequencing library preparation applicable to diverse sample types	Amanda Raine	UU	Genomics	National Genomics Infrastructure	1000	1000
Targeted long-read sequencing and epigenetic profiling	Adam Ameur	UU	Genomics	National Genomics Infrastructure	1000	1000
NGS-based telomere analysis	Pär G Larsson	UmU	Clinical Genomics	Clinical Genomics Umeå	600	600
A Modular Bioinformatics Pipeline for high throughput metabolomics at the SciLifeLab Metabolomics Platform	Hans Stenlund	UmU	Metabolomics	Swedish Metabolomics Centre	1000	1000
DRP-CODEX: Establishing simultaneous detection of DNA, RNA, and proteins on the CODEX platform	Xiaoze Li-Wang	KI	Spatial and Single Cell Biology	Advanced FISH Technologies	1000	1000
A Pipeline for Tissue Clearing and Expansion	Ana Agostinho	KTH	Cellular and Molecular Imaging	Integrated Microscopy Technologies	708	708
Enabling high-content phenotyping in pooled CRISPR screens by in situ sgRNA readout	Bernhard Schmiere	KI	Chemical Biology and Genome Engineering	CRISPR Functional Genomics	800	800
Improved understanding of drug mechanism-of-action by establishing a nation-wide service of morphological profiling	Marianna Tampere	KI	Chemical Biology and Genome Engineering	Chemical Biology Consortium Sweden	1000	1000
				Total (kSEK)	**9108**	**9108**

Appendix 5

Instrument	Applicant	Affiliation	Platform	Unit	Acquisition cost (kSEK)	Applied Funding (kSEK)	Decided Funding (kSEK)
Automated workstations for sequencing library preparation	Ulrika Liljedahl	UU	Genomics	National Genomics Infrastructure	3800	3400	2000
Oxford Nanopore PromethION24 system	Susanne Hellstedt Kerje	UU	Genomics	National Genomics Infrastructure	2850	2850	2000
High precision and efficiency cell isolation from low input specimen for single-cell sequencing applications.	Ulrich Pfisterer	LU	Clinical Genomics	Clinical Genomics Lund	2000	2000	1800
SECOM Platform for integrated correlative imaging	Julia Fernandez-Rodriguez	GU	Cellular and Molecular Imaging	Integrated Microscopy Technologies	3000	2500	2000
National infrastructure investment for next-generation super-resolution single molecule imaging - MINFLUX	Hans Blom	KTH	Cellular and Molecular Imaging	Integrated Microscopy Technologies	15000	8000	8000
Upgrade of 600 MHz NMR console	Göran Karlsson	GU	Integrated Structural Biology	Swedish NMR Centre	5000	2500	2000
iQue3 High-Throughput flowcytometer	Erik Chorell	UmU	Chemical Biology and Genome Engineering	Chemical Biology Consortium Sweden	3400	3400	2800
LEAP HDX Extended Parallel System	Massimiliano Gaetani	KI	Chemical Biology and Genome Engineering	Chemical Proteomics	2000	2000	1500
				Total (kSEK)	**37050**	**26650**	**22100**

Appendix 6

SciLifeLab/DDLS 2022 budget

MSEK

No		Total	Co-funding	KAW Funding	Tentative budget	Comments
1	**Recruitments 2022**	**31,3**	**2,9**	**28,4**	**68,0**	
	Cell and Molecular Biology	8,3	1,2	7,1	17,0	University (no of packages): KTH (1), SU(2), LiU (1), CTH (1). Annual budget is calculated for each recruitment package with the FTE rates: 0,58 FTE Fellow; 0,33 FTE Postdoc1; 0,33 FTE Doktorand1; 0,08 FTE Postdoc2; 0,08 FTE Doktorand2 . Recruitments initiated in 2021 and costs start to accumulate in 2022.
	Evolution and Biodiversity	4,5	0,2	4,3	10,2	University (no of packages): UU (1), SLU (1), NRM (1). Annual budget is calculated for each recruitment package with the FTE rates: 0,58 FTE Fellow; 0,33 FTE Postdoc1; 0,33 FTE Doktorand1; 0,08 FTE Postdoc2; 0,08 FTE Doktorand2 . Recruitments initiated in 2021 and costs start to accumulate in 2022.
	Precision medicine and diagnostics	11,0	1,0	10,0	23,8	University (no of packages): KTH (1), KI (1), UU (1), GU (1), CTH (1), LU (1), UmU (1) . Annual budget is calculated for each recruitment package with the FTE rates: 0,58 FTE Fellow; 0,33 FTE Postdoc1; 0,33 FTE Doktorand1; 0,08 FTE Postdoc2; 0,08 FTE Doktorand2 . Recruitments initiated in 2021 and costs start to accumulate in 2022.
	Epidemiology and infection biology	7,6	0,5	7,1	17,0	University (no of packages): KI (1), UU(1), GU (1), LU (1), UmU (1). Annual budget is calculated for each recruitment package with the FTE rates: 0,58 FTE Fellow; 0,33 FTE Postdoc1; 0,33 FTE Doktorand1; 0,08 FTE Postdoc2; 0,08 FTE Doktorand2 . Recruitments initiated in 2021 and costs start to accumulate in 2022.
2	**Data support and databases**	**67,4**	**1,4**	**65,9**	**50,0**	
	Personnel costs, central data support hub	15,7	0,7	15,1	10,5	14 FTE. Central hub operation at Uppsala/Stockholm. Operation of national DDLS data portal. Central hardware admin, databases and software services, and national coordination. (Manager, data engineers, data coordinators, system developers, project leader)
	Personnel costs, data area network	13,5	0,8	12,7	10,5	12 FTE. Operation of local data support nodes at partner universities, supporting local groups and locally developed data services, and link to hub. (Bioinformaticians, data coordinators or developers, depending on profile of node)
	Running costs	15,8	0,0	15,8	14,0	Running costs for hardware, such as electricity and cooling.External services that are not licenses or consultants, such as service contracts. Software, local or cloud based, part of the data platform. Costs related to the technical operation of services. IT engineers with special skills for short term projects
	Externally developed services	5,0	0,0	5,0	5,0	Support (staff salaries or running costs) for data platform collaborative projects for technology development
	Depreciation	15,0	0,0	15,0	10,0	Investments for core e-infrastructure (compute, storage, network)
	Training	1,2	0,0	1,2	0,0	Workshops and courses for technical staff associated with data platform
	Community projects	1,2	0,0	1,2	0,0	Support (staff salaries or running costs) for data platform participation in DDLS related community projects
3	**Interactions with WASP**	**17,54**	**3,15**	**14,39**	**23,0**	
	WASP-DDLS Joint Research Projects	15,6	3,15	12,45	16,0	No of two-years long DDLS /WASP joint projects (10). university unkown. Budget is calculated for each joint project with 0,83 FTE for 2022. Recruitments initiated in 2021 and costs start to accumulate in 2022.
	WASP-HS interactions	1,8	0,0	1,8	2,0	Seed funding allocated for WASP-HS/DDLS interaction. Costs to be incurred in the form of effort spend in (%). University unkown.
	Networking	0,14	0,0	0,14	5,0	Kick-off in spring with PI and post-docs with WASP. Planning networking and conference/meeting with WASP-HS
4	**Advanced bioinformatics support (WABI) including Cryo-EM**	**12,5**	**2,5**	**10,0**	**10,0**	
	Bioinformaticians	12,5	2,5	10,0	10,0	1,74 FTE Cryo-EM structural biology, no of nodes SU(2); 2,74 FTE precision medicine and diagnostics no of nodes CHT (1), SU(1), LU(1): 1,87 FTE cell and molecular biology, no of nodes SU(1), CHT(1): 3,74 FTE epidemiology and infection biology, no of nodes CHT(1), LU(1), UU(2)
5	**Program coordination, networking and research school**	**10,5**	**0,2**	**10,4**	**11,5**	
	Program coordination and administration	6,3	0,1	6,2	3,0	Salary and Running costs: 1 FTE controller; 0,5 FTE communications; 1,9 FTE coordinators; 0,4 FTE events-support; 0,2 management. 75% effort research school and training (25% training lead and 50% coordinator)
	Networking activities	1,1	0,1	1,0	3,0	On site annual conference. 8 RA mini symposias (4 on site and 4 digital). DDLS fellows retreat fall 2022. Hearings (policy actions, industry collaboration). Travel and hotel in Europe.
	DDLS training and research school	0,6	0,0	0,6	2,0	Data driven courses, planning for 2-3 courses in 2022 (1 week courses). Partner organization research school development workshop. Community building and knowledge exchange. Travel and hotel.
	Management, startegy and planning	1,8	0,0	1,8	2,5	20% effort for director and 20% effort for co-director. 2 on site full day meetings for DDLS SG. 25% effort for Ethical, Legal and Social Aspects (ELSI) assignment (Total 50% effort, 25% of national funding invoice to KTH). 5% effort for chair/coordination per RA.
	Advertisement and promotions	0,8	0,0	0,8	1,0	Advertisements for DDLS fellow recruitments, phD and postdoc positions. Content films/written material. Develop autoposts function connect SciLifeLab website with Science carrier pages.
	TOTAL	**139,24**	**10,15**	**129,09**	**162,5**	