

# APPLICATION FORM GUIDELINES

7 March 2024, version 12  
Rey Planellas/Bostock/Di Cioccio

## **NEW: ACCESS AVAILABLE TO EMBRC SERVICES!**

**Applications for AQUAEXCEL3.0 Transnational Access Projects (TNA) should be made via the application system available at**

**<https://apply.aquaexcel.eu/submit-proposal/>**

These guidelines supplement the help already provided on the application system. If you have not already done so, you will need to register and create an account on the system to gain further access. The guidance here assumes you have successfully reached the stage of creating a new project application on the system.

### **STEP 1: SELECT SERVICES**

After selecting “Start a new proposal” you will be asked to select the required service(s). By default, the system displays all the infrastructures and services provided. These now include both AQUAEXCEL and appropriate EMBRC services. You can use the filters below the progress line to limit the display to just one country or infrastructure.

## Submit a proposal for access

Your draft proposal has been assigned a PID: 20476

Please fill in the following fields describing your project and your needs. Fields marked with \* are mandatory



Select what you want to apply for access to:

Choose a filter:

Country:

Facility:

Or select from a service:

CCMAR Ramalhete Experimental Station		Portugal
<input type="button" value="Select Service"/>	Access to facilities at CCMAR Ramalhete Experimental Station	
CCMAR-Labs & Platforms		Portugal
<input type="button" value="Select Service"/>	Access to facilities at CCMAR-Labs and Platforms	
CSIC-IATS-ANA (Instituto de Acuicultura Torre de la Sal/Analytical Labs)		Spain
<input type="button" value="Select Service"/>	Absorbance and Fluorescence Spectrometry at IATS-ANA	
<input type="button" value="Select Service"/>	Biochemical analysis at IATS-ANA	
<input type="button" value="Select Service"/>	Bioinformatics at IATS-ANA	
<input type="button" value="Select Service"/>	Cell culture at IATS-ANA	
<input type="button" value="Select Service"/>	Culture facilities for bacteria at IATS-ANA	
<input type="button" value="Select Service"/>	Data analytic at IATS-ANA	
<input type="button" value="Select Service"/>	Diagnostic labs at IATS-ANA	

Most TNA projects will involve only one Research Installation. However, if the project requires the use of two or more installations, add additional installations to the application. The available AQUAEXCEL installations are listed in the Call for Access at <https://aquaexcel.eu/transnational-access/>. You should contact the Research Installation(s) at an early stage via e-mail to ensure your proposals are feasible. Once **your proposal is submitted it will be reviewed and evaluated by the RI Manager and feedback will also be provided.**

A full listing of services by Infrastructure is appended to these guidelines. There is also a summary grid which shows the service categories available by infrastructure. For several infrastructures there is only one choice to make which is “Access to facilities at ....”. For other infrastructures there are a list of services, and you should select all that are likely to be required for your research project. If you are not sure exactly which services you will require, select the most likely and continue with your application.

Further details of the services available at each infrastructure can be found in the TNA Handbook.

## STEP 2: COMPLETE APPLICATION FORM<sup>1</sup>

### 1. PROPOSAL DETAILS

- 11 The project identification code is created automatically by the system and can be used in correspondence with the TNA Manager to quickly locate your information
- 12 The call identification code is inserted automatically by the system
- 13 Please provide a short title for the application suitable for use as a link on a website (maximum 30 characters)
- 14 Please provide a descriptive title for your proposed project which will give an immediate indication to the reader of the type of work planned and species involved
- 15 Other application identification:
  - 15.1 Please create an acronym for your project (maximum 20 upper case letters/numbers) to act as a unique identifier in the EU project database.
  - 15.2 If the application is a re-submission of a previous proposal, please select “yes”
  - 15.3 If the application is a re-submission of a previous proposal, please give the application reference number. This will help speed up processing of the application.
  - 15.4 If you have sought and received advice from the Orientation Committee, please select “yes”. If you would like to obtain advice from the Orientation Committee, please send an e-mail to [aquaexcel-OC@inrac.fr](mailto:aquaexcel-OC@inrac.fr).

### 2. APPLICANT DETAILS

Add the details of each person involved in the project in this section.

The *lead applicant* is the person responsible for all project communications and who will be participating directly in the work and visiting the research installation (unless the proposal is for remote access only). The lead applicant does not need to be the most senior person involved in the project. The lead applicant may have one of the following roles:

- LAV – Lead applicant/Visitor
- LAR – Lead applicant/Remote

Select the first if the lead applicant will be visiting the infrastructure and the second if they will not visit or will use the infrastructure remotely.

A *co-applicant* may also apply to visit the research installation if justified by the experimental work and budget is available. They may be a co-worker or a senior adviser/supervisor or technical assistant. The co-applicant may have one of the following roles:

- CAV – Co-applicant/Visitor
- CAU – Co-applicant/Unfunded visitor
- CAE – Co-applicant/Non-visiting expert
- CAS – Co-applicant/ Non-visiting support

Please select the most appropriate

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<sup>1</sup> Note: If you need to collaborate with other people in writing the application text, a Microsoft Word version of the application form is available on the ARIA Proposals Landing Page (Link under “Proposal Guidelines”). Once finalised, the text can be cut and pasted into the ARIA form.

If either the lead applicant or co-applicant is a student, please ensure that supervision arrangements are fully explained in the project description.

Additional applicants can be identified as being involved in the project, but not involved in the mobility.

Questions on nationality, gender, education level and research experience are included to be able to provide aggregated statistics on TNA users to the European Union.

Highest educational level should be defined using the European Qualifications Framework (<https://europa.eu/europass/en/european-qualifications-framework-efq>) which can be summarised as:

Level 8 – Doctoral Degrees and equivalent Professional Development Awards

Level 7 – Masters Degrees and other Post Graduate Qualifications

Level 6 – Honours Degrees and other graduate level qualifications

Level 5 – Post-school certificates and diplomas below graduate level

Definitions for researcher experience (Researcher profile) can be found at:

<https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors>:

First Stage Researcher R1 – up to the point of PhD

Recognised Researcher R2 – PhD holders or equivalent who are not yet fully independent

Established Researcher R3 – have developed a level of independence

Leading Researcher R4 – leading research in their area or field

The applicant e-mail address is requested as back-up in case of problems communicating through ARIA.

For the question “Is this person the research group leader”, a Research Group Leader is considered to be the person who has overall responsibility for the programme of research of which this TNA project will be a contribution. Commonly this will be the head of a laboratory or department etc.

The question “Is this person a remote user” should be answered “yes” if they will not visit the Infrastructure under the TNA project and “no” if they will make a physical visit.

Organisation details should also be completed for each person. There are two key parts to this. Firstly, the legal name of the organisation, the country in which it is established (legally registered or has its main headquarters if an international organisation), the type of organisation, and where available the EU PIC (A unique 9 digit code number assigned to organisations registered with the EU for funding or tenders). You can look up the PIC for your organisation (if it has one) at: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>).

The following organisation types are available to select:

UNI – University

RES – Public Research Institution (Government funded research organisation)

SME – Private company that falls within the EU definition of a Small Medium Enterprise

PRV – Private organisation that is not an SME

OTH – Any other type of organisation, e.g. not-for-profit/non-government organisations

The second part is the organisational unit, which is not a separate legal entity, but a department or division of the legal organisation – e.g. institute or department within a university, or laboratory within a research organisation. For smaller organisations without an organisational unit, simply repeat the organisation name as the organisational unit. Please try to enter the organisation name in full in the format that is most commonly used.

### 3. REQUESTED RESEARCH INSTALLATIONS

Be particularly careful to correctly calculate the number of units of access that will be required for the proposed work and give planned dates. The RI Manager should be able to inform and guide you on that. Please note: the calculation of the “number of units of access” is not required in case of application to EMBRC services (see list below). Further information is available for each facility in the AQUAEXCEL3.0 TNA Guide document (TNA Handbook, available at this page: <https://aquaexcel.eu/transnational-access>). If any work needs to be conducted by the Installation outside of the period of user visits, or if use will be made of remote monitoring equipment, please tick the box to confirm that remote access is required and give further explanation in the “Research Plans” section.

Transnational Access can be provided in the following ways:

- in person (“hands-on”), provided to selected users that visit the installation or
- remote, through the provision to selected users of remote scientific services.

Examples of remote access include the provision of reference materials or samples (e.g. shipping of a virus strain); performing a remote sample analysis or sample deposition; remote access to experimental aquaria or high-performance computing facilities.

The application should make clear the number of team members and the purpose of the visits by both the lead and co- applicants and the intended length of the period of stay. This will be an important element of project monitoring. Any requirements for remote access should also be clearly stated.

#### 4. PREVIOUS COLLABORATIONS

This section includes questions about previous collaborations between the applicant and host organisations. This information helps the Selection Panel to determine the priority that should be accorded to the application under the EC contract guidance on promoting new collaborations and ensuring widest possible access. Incorrect information could lead to the proposal being rejected. A “research group” is the smallest organisational unit within a research organisation, usually a team working in a specialist area on common projects. A “new user” is someone who has not previously conducted any work at the proposed research installation in any capacity. “Access” means making use of the facilities at the proposed research installation. Please give the details including reference numbers of any previous AQUAEXCEL applications, including AQUAEXCEL, AQUAEXCEL<sup>2020</sup> and AQUAEXCEL3.0

#### 5. PLANNED VISIT SCHEUCLE

A visit timetable should be discussed with the host infrastructure **and the start date should be at least 3 months after the submission of the application**. Add the details for each separate person and visit planned as part of the project. If you do not have specific dates in mind, fill in most likely dates. These can be changed later. The start date is either the arrival date of a person visiting the installation or the day on which experimental work commences – whichever is the earlier. Unless special provisions have been made by the Installation, TNA projects can only be funded up to 3 months in duration (90 days). If the access is remote only, please enter the expected start and end date for the work at the host installation.

The application will be shared with the **appropriate Research Installation Manager for Technical Evaluation**, we advise you contact them directly well before submitting the proposal to ensure the proposed work is feasible.

**AQUAEXCEL Research Installation Managers** and their contact details:

Organisation	Infrastructure	Installation	Contact Name	e-mail
INRAE	INRAE	PEIMA	Nicolas Larranaga	nicolas.larranaga@inrae.fr
INRAE	INRAE	STPEE	Stephane Panserat	stephane.panserat@inrae.fr
INRAE	INRAE	IERP	Dimitri Rigaudeau	dimitri.rigaudeau@inrae.fr
INRAE	INRAE	LPGP	Jean-Charles Gabillard	jean-charles.gabillard@inrae.fr
IMR	Matre	CELL	Ragnar Nortvedt	ragnar.nortvedt@hi.no
UoS	UoS_IoA	IoA	Amaya Albalat	amaya.albalat@stir.ac.uk
CSIC	CSIC-IATS	IATS-EXP	Josep Calduch Giner	j.calduch@csic.es
CSIC	CSIC-IATS	IATS-ANA	Josep Calduch Giner	j.calduch@csic.es
HCMR	HCMR	Aqualabs-souda	Stavros Chatzifotis	stavros@hcmr.gr
HCMR	HCMR	GB	Costas Tsigenopoulos	tsigeno@hcmr.gr
NAIK	NAIK	RECIRK	Uros Ljubobratovic	ljubobratovic.uros@uni-mate.hu
NAIK	NAIK	OEPS	Uros Ljubobratovic	ljubobratovic.uros@uni-mate.hu
IFREMER	IFREMER	IFR-PEARS	Marie Laure Bégout	marie.laure.begout@ifremer.fr
IFREMER	IFREMER	IFR-PMMLT	Christophe Stavrakakis/ Frederic Girardin	christophe.stavrakakis@ifremer.fr/ frederic.girardin@ifremer.fr
IFREMER	IFREMER	IFR-PMMB	Christophe Stavrakakis/ Virginie Le Razavet	christophe.stavrakakis@ifremer.fr/ virginie.le.razavet@ifremer.fr
Nofima	Nofima NRSA	NRSA	Per Brunsvik	per.brunsvik@nofima.no
JU	FFPW	GRC	Vojtěch Kašpar	vkaspar@frov.jcu.cz
JU	FFPW	IFA	Oleksandr Malinovskiyi	omalinovskiyi@frov.jcu.cz
JU	FFPW	ICS	Petr Císař	cisar@frov.jcu.cz

Organisation	Infrastructure	Installation	Contact Name	e-mail
JU	FFPW	IAPW	Jan Mráz	jmraz@frov.jcu.cz
NTNU	Sealab	Sealab	Martin Føre	martin.fore@ntnu.no
SINTEF	SINTEF	ACE	Nina Blöcher	nina.bloecher@sintef.no
SINTEF	SINTEF	NSTC	Silje Forbord	silje.forbord@sintef.no
ULPGC	PCTM	WWSSU	Rafael Ginés Ruiz	rafael.gines@ulpgc.es
ULPGC	PCTM	MBS	Daniel Montero Vitores	daniel.montero@ulpgc.es
ULPGC	PCTM	FITU	Daniel Montero Vitores	daniel.montero@ulpgc.es
WU	WU	WU-MRU	Roel M. Maas	roel.maas@wur.nl
WU	WU	WU-RAS	Roel M. Maas	roel.maas@wur.nl
WR	RAS-Fish performance	RAS-Fish Performance	Wout Abbink	Wout.Abbink@wur.nl
UL	EPA	EPA	Sylvain Milla	sylvain.milla@univ-lorraine.fr
DTU	DTU AQUA	AAH	Argelia Cuenca	arcun@aqu.aqu.dtu.dk
DTU	DTU AQUA	DSC	Camille Saurel	csau@aqu.aqu.dtu.dk
CCMAR	CCMAR	Ramalhete Exp Station	Ana Amaral	amamaral@ualg.pt
CCMAR	CCMAR	Labs & Platforms	Ana Amaral	amamaral@ualg.pt
CCMAR	CCMAR-IPMA	IPMA Aquaculture Research Station (EPPO)	Pedro Pousão / Laura Ribeiro / Ana Matias	pedro.pousao@ipma.pt / lribeiro@ipma.pt / ana.matias@ipma.pt
IEO	IEO Aquaculture	AquaCOV	Montse Pérez	montse.perez@ieo.es
IEO	IEO Aquaculture	ICAR MAP	Aurelio Ortega	aurelio.ortega@ieo.es
IEO	IEO Aquaculture	PAU	Inmaculada Rasines	inma.rasines@ieo.es
UNITO	DISAFA	AQUA	Laura Gasco / Manuela Renna	laura.gasco@unito.it / manuela.renna@unito.it
UNITO	DISAFA	INSECTS	Laura Gasco / Manuela Renna	laura.gasco@unito.it / manuela.renna@unito.it

## EMBRC Research installation managers and their contact details

Organisation	Infrastructure	Installation	Contact Name
KULeuven	EMBRC-Belgium	Filip Voleckaert / Marleen Roelofs	filip.volckaert@kuleuven.be / cc to: embrc@ugent.be
RBINS	EMBRC-Belgium	Wannes De Clercq / Marleen Roelofs	wdeclercq@naturalsciences.be / cc to: embrc@ugent.be
UGENT	EMBRC-Belgium	Marleen Roelofs / Marleen Roelofs	marleen.roelofs@ugent.be / cc to: embrc@ugent.be
VLIZ	EMBRC-Belgium	Andre Cattrijsse / Marleen Roelofs	embrc@vliz.be / cc to: embrc@ugent.be
IMEV	EMBRC-France	Raffaella Cattaneo / Nathalie Turque	raffaella.cattaneo@imev-mer.fr / cc to: nathalie.turque@embrc-france.fr
OOB	EMBRC-France	Julie Boeuf / Nathalie Turque	julie.boeuf@obs-banyuls.fr / cc to: nathalie.turque@embrc-france.fr
SBR	EMBRC-France	Cécile Cabresin / Nathalie Turque	cecile.cabresin@sb-roscoff.fr / cc to: nathalie.turque@embrc-france.fr
HCMR-IMBBC	EMBRC-Greece	Panagiotis Kasapidis / Panagiotis Kasapidis	kasapidi@hcmr.gr / cc to: kasapidi@hcmr.gr
IOLR-NCM	EMBRC-Israel	Buki Rinkevich / Simon Berkowicz, Gil Koplovitz	buki@ocean.org.il / cc to: simonb@mail.huji.ac.il, gil.koplovitz@mail.huji.ac.il
IOLR-NIO	EMBRC-Israel	Raz Tamir / Simon Berkowicz, Gil Koplovitz	razt@ocean.org.il / cc to: simonb@mail.huji.ac.il, gil.koplovitz@mail.huji.ac.il
CNR-IRBIM-L	EMBRC-Italy	Antonietta Specchiulli / Pasquale De Luca, Giorgio Maria Vingiani	antonietta.specchiulli@cnr.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CNR-IRBIM-M	EMBRC-Italy	Giulia Maricchiolo / Pasquale De Luca, Giorgio Maria Vingiani	giulia.maricchiolo@cnr.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CNR-ISMAR	EMBRC-Italy	Lucia Bongiorno / Pasquale De Luca, Giorgio Maria Vingiani	lucia.bongiorno@ve.ismar.cnr.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CNR-ISP-ME	EMBRC-Italy	Maurizio Azzaro / Pasquale De Luca, Giorgio Maria Vingiani	maurizio.azzaro@cnr.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CNR-ISP-RM	EMBRC-Italy	Maurizio Azzaro / Pasquale De Luca, Giorgio Maria Vingiani	maurizio.azzaro@cnr.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CONISMA-UNICAM	EMBRC-Italy	Mauro Angeletti / Pasquale De Luca, Giorgio Maria Vingiani	mauro.angeletti@unicam.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CONISMA-UNIPD	EMBRC-Italy	Lorenzo Zane / Pasquale De Luca, Giorgio Maria Vingiani	lorenzo.zane@unipd.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
CONISMA-UNISALENTO	EMBRC-Italy	Stefano Piraino / Pasquale De Luca, Giorgio Maria Vingiani	stefano.piraino@unisalento.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
ENEA-LS	EMBRC-Italy	Chiara Lombardi / Pasquale De Luca, Giorgio Maria Vingiani	chiara.lombardi@enea.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
ISPRA	EMBRC-Italy	Chiara Maggi / Pasquale De Luca, Giorgio Maria Vingiani	chiara.maggi@isprambiente.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it



OGS	EMBRC-Italy	Mauro Celussi / Pasquale De Luca, Giorgio Maria Vingiani	mcelussi@inogs.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
SZN	EMBRC-Italy	Pasquale De Luca, Giorgio Maria Vingiani / Pasquale De Luca, Giorgio Maria Vingiani	pasquale.deluca@szn.it, giorgio.vingiani@szn.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNICA	EMBRC-Italy	Pierantonio Addis / Pasquale De Luca, Giorgio Maria Vingiani	addisp@unica.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNIFE	EMBRC-Italy	Michele Mistri / Pasquale De Luca, Giorgio Maria Vingiani	msm@unife.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNIME	EMBRC-Italy	Serena Savoca / Pasquale De Luca, Giorgio Maria Vingiani	serena.savoca@unime.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNIMIB- MarHE	EMBRC-Italy	Paolo Galli / Pasquale De Luca, Giorgio Maria Vingiani	paolo.galli@unimib.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNITO	EMBRC-Italy	Livio Favaro / Pasquale De Luca, Giorgio Maria Vingiani	livio.favaro@unito.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNITUS	EMBRC-Italy	Roberta Cimmaruta / Pasquale De Luca, Giorgio Maria Vingiani	cimmaruta@unitus.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
UNIVPM- DISVA	EMBRC-Italy	Cristina Gambi / Pasquale De Luca, Giorgio Maria Vingiani	c.gambi@univpm.it / cc to: pasquale.deluca@szn.it, giorgio.vingiani@szn.it
IMR-ARS	EMBRC-Norway	Prescilla Perrichon / Rannveig Nina Myklebust, Henrik Glenner	prescilla.perrichon@hi.no / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
NIVA	EMBRC-Norway	Vladyslava Hostyeva / Rannveig Nina Myklebust, Henrik Glenner	vladyslava.hostyeva@niva.no / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
NTNU	EMBRC-Norway	Inger M. Jennings / Rannveig Nina Myklebust, Henrik Glenner	inger.m.jennings@ntnu / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
UIB-MBSE	EMBRC-Norway	Henrik Glenner / Rannveig Nina Myklebust, Henrik Glenner	henrik.glenner@uib.no / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
UIB-SLRC	EMBRC-Norway	Frank Nilsen / Rannveig Nina Myklebust, Henrik Glenner	frank.nilsen@uib.no / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
UiO	EMBRC-Norway	Bente Edvardsen / Rannveig Nina Myklebust, Henrik Glenner	bente.edvardsen@ibv.uio.no / cc to: rannveig.myklebust@uib.no, henrik.glenner@uib.no
ACOI	EMBRC-Portugal	Lília Maria Antunes dos Santos / Ana Amaral	acoiembrc@ci.uc.pt / cc to: amamaral@ualg.pt
CIIMAR	EMBRC-Portugal	Susana Moreira, Ana Cavadas / Ana Amaral	ciimarembrc@ciimar.up.pt / cc to: amamaral@ualg.pt
BEA-ULPGC	EMBRC-Spain	Juan Luis Gómez Pinchetti / Maria Huete- Ortega	juan.gomez@ulpgc.es / cc to: maria.huete@uvigo.es
ECIMAT- UVIGO	EMBRC-Spain	Maria Huete-Ortega / Maria Huete-Ortega	maria.huete@uvigo.es / cc to: maria.huete@uvigo.es
PIE- UPV/EHU	EMBRC-Spain	Xabier Lecube / Maria Huete-Ortega	xabier.lecube@ehu.eus / cc to: maria.huete@uvigo.es

## 6. SCIENTIFIC PROPOSAL

This section is the primary content upon which the project will be evaluated. You should ensure it is completed fully with a good standard of English Language.

### 6.1 Summary

Provide a concise summary of the planned research including its purpose and expected outcomes. Please note that this summary may be used in reporting to the European Commission.

### 6.2 Justification

Provide a summary of the scientific context of the proposal study, including the current state of knowledge (make reference to specific published research). Include any commercial context for the work. Please identify the key reasons why you are applying to this particular infrastructure, e.g. with respect to facilities, species or particular expertise available or potential future collaboration plans. You should also clarify why the proposed research cannot be carried out in your own country.

### 6.3 Study objectives

Describe the objectives of the study and especially any potential commercial or quality of life benefits. Refer to official documents and other literature to show how this specific study meets the aims and objectives of broader EU research programmes.

### 6.4 Research plans

Provide details of the research to be carried out at the Research Installation(s). Indicate if your research can only be carried out at a particular time for operational reasons, e.g., availability of material. Include experimental methods (treatments, controls etc), and schedules. Please also clarify what work will be carried out in person at the installation and what work might be done remotely.

### 6.5 Details of proposed analysis of results

Provide details of how you expect to analyse the results. This can include specific use of statistics, modelling, bioinformatics, and other analytical techniques.

### 6.6 References

Provide the full details of any journal articles that you have cited in the justification, methods or analysis sections etc. so that reviewers can easily locate and check the articles to which you have referred. Where possible please provide the DOI.

### 6.7 Expected knowledge outputs from the research

Consider the type of knowledge that should be generated by the experimental work and its potential value and significance.

### 6.8 Specific requirements

Please provide as much detail as possible here about specific equipment, consumables, technical assistance, and training that will be required. Consider any materials that pose a hazard and require special procedures or disposal facilities.

### 6.9 Unfunded requirements

Use this section to identify any requirements for the work that are not covered under the standard TNA budget (which should cover routine consumables) and how these extra costs will be met.

### 6.10 Total estimated travel and subsistence costs

Travel costs are normally reimbursed by the Research Installation providing the most economic means



of travel is used. Please give an estimate here to help the installation with budgeting.

Travel expenses will be paid from the user's home institution to the Research Installation and return. Economy class air fares will be reimbursed on production of tickets. Any additional travel costs incurred in travelling to and from the Research Installation (e.g., train, taxi) will also be reimbursed at economy rates. Any travel expenses involved in carrying out the research whilst at the Research Installation will also be provided.

Subsistence costs are normally reimbursed by the Research Installation according to their normal organisational rules. Please give an estimate here to help the installation with budgeting.

Accommodation will be provided in accommodation owned by the Research Infrastructure or in nearby guest houses (bed and breakfast) or hotels. Full details of accommodation provisions and expense allowances are available from the individual Research Infrastructures.

Use the space provided to provide any necessary clarifications on expected expenses and whether other funding is available to cover some or all of these.

Users of the Research Infrastructures will need to make their own travel insurance arrangements. If the visit involves more than one trip or different dates for different people, please explain this clearly alongside the cost estimates in this section.

## 7. DISSEMINATION AND EXPLOITATION OF RESULTS

Use this section to show you have thought about how the value of the research can be maximised and communicated to potential users. This is an important criterion for selection so it is expected that applicants will see possibilities that go well beyond publishing a paper in a journal or making a conference presentation.

71 Describe how you expect to disseminate the results of the research. Please consider who your communications will be targeted towards and the channels you will use.

72 Describe how you expect the results of the research to be exploited. Who do you anticipate making use of your results and how?

73 Do you expect the research to result in the creation and protection of any IP? This refers to the creation of any intellectual property that might be protected through a patent, copyright, trademark, or non-disclosure agreement. If so, the nature of the IP, ownership, means of protection and mechanisms for exploitation should be agreed with the host installation organisation prior to project commencement.

## 8. ETHICS SCREENING

It is AQUAEXCEL3.0 policy that all research linked to the project will be conducted according to the 3Rs (reduce, refine replace) methodology (Further explanation is given below and via web sites such as <https://www.nc3rs.org.uk>). All experimental work must also be carried out in accordance with the animal welfare regulations in force in the country concerned and according to welfare policies and procedures at the research installation where the work is conducted. Documentary evidence that procedures have been followed and permissions obtained needs to be provided to the Project Manager (INRAE Transfert).

81 **Ethics issues:** If your work involves live aquatic animals please discuss these principles in relation to your proposed work, showing how you will comply with best practice. As well as

acute adverse effects, possible chronic adverse effects should be considered. Where chronic adverse effects are possible, humane end points should be defined before the experiment and criteria defined for early termination of specific experimental groups where necessary.

82 **Ethics compliance:** You should also provide details of any other fish welfare or ethics guidelines or procedures that will be followed in accordance with either the policies of your own organisation, that of the Research Infrastructure, and with respect to national regulations under which the work will be conducted.

83 **Reduction** refers to methods for obtaining comparable levels of information from the use of fewer animals in scientific procedures or for obtaining more information from a given number of animals so that, in the long run, fewer animals are needed to complete a given research project or test. Reduction will be achieved through experimental planning and design, in order to avoid inconclusive experiments due to inadequate statistical power of experiments, as well as by standardisation of the animal population (genetics, health), the environment and experimental techniques. Where relevant, describe the steps you will take to reduce the number of experimental animals.

84 **Refinement** encompasses those methods that alleviate or minimize potential pain and distress and enhance animal well-being. Potential pain and distress can be avoided or alleviated with the proper use of anaesthetics, analgesics, and sedatives. The use of such methods is integral to the implementation of Directive 2010-63-EU which will be the baseline of the animal experimentation procedures used in AQUAEXCEL3.0. In this section describe in some detail the methods that will be used to refine any proposed aquatic animal trials.

85 **Replacement** alternatives encompass those methods that permit a given purpose to be achieved without conducting experiments or other scientific procedures on animals. Whenever possible, ex vivo methods will be preferred to experimentation on animals. Use this section to describe any replacement of experimental animals.

## 9. THEMATIC CLASSIFICATION

To help with evaluation and reporting of the project, please indicate which thematic area(s) are the subject of your study. You must select at least one, but multiple selections are also possible using the yes/no dropdown selectors. Note NGS = Next Generation Sequencing. If you consider the work is not adequately covered by the listed classifications, you can enter another classification in the “Other Description” text box.

## 10. SPECIES CLASSIFICATION

To help with evaluation and reporting of the project, please indicate which species group(s) are the subject of your study. You must select at least one, but multiple selections are also possible using the yes/no dropdown selectors. If you are working on a species not adequately covered by the listed classifications, you can enter another classification in the “Other aquaculture species” text box.

## 11. EATiP SRIA CLASSIFICATION: Addressing EATIP Strategic Research and Innovation Agenda

Use this section to describe clearly how your research is expected to contribute to the European Aquaculture Technology and Innovation Platform Strategic Research and Innovation Agenda (See <https://eatip.eu/sria/>). “The Future of European Aquaculture – Our Vision: A Strategic Agenda for Research & Innovation” was published in 2012 which lists the 8 thematic areas in a different order to that on the form, i.e.:

1. Product Quality, Consumer Safety and Health
2. Technology and Systems



3. Managing the Biological Life Cycle
4. Sustainable Feed Production
5. Integration with the Environment
6. Knowledge Management
7. Aquatic Animal Health and Welfare
8. Socio-economics, Management & Governance

Select the appropriate areas using the yes/no boxes.

For each thematic area, a key target is given and then a set of numbered goals and bullet-point sub-goals. In the text box “EATIP Justification” Please quote the specific goals and sub goals that your research will support – e.g. “Thematic Area 3, Goal 2, Sub-Goal b” (using a,b,c etc to identify the specific sub-goal) and explain these choices in the space given for further explanation. You may also wish to take account of the outcome of the SRIA review in 2017 - <http://eatip.eu/wp-content/uploads/2018/02/EATIP-SRIA-2017.pdf>

## PERSONAL DATA

Application for AQUAEXCEL3.0 TNA involves the sharing, storing and processing of personal data. The requirement for and use of personal data is kept to the minimum possible and is managed in compliance with the EU General Data Protection Regulations (GDPR). The AQUAEXCEL3.0 TNA Policy on Personal Data is available separately ([https://aquaexcel.eu/wp-content/uploads/2021/07/INRAE-Data-Policy-for-the-AQUAEXCEL3\\_V6.pdf](https://aquaexcel.eu/wp-content/uploads/2021/07/INRAE-Data-Policy-for-the-AQUAEXCEL3_V6.pdf)) and it should be read by all applicants.

## ATTACHMENTS

You should ensure that you add the appropriate attachments to your application. These are:

- CV ([CV TEMPLATE](#)) for the applicant and any other people involved in visits to the host installation (REQUIRED)
- Ethics documents – copies of any permissions or applications mentioned in the Ethics section (not already submitted to the Project Coordinator)
- Possibly, nominations for independent project reviewers ([EXPERT REVIEWER APPLICATION](#)) – this could help speed up processing and review of your project.
- Any other supporting documentation considered necessary (e.g. diagrams)
- The attachments must be in PDF format and less than 10 Mb in size.

## SUBMISSION

When you have completed your application form and accepted you will see all the application to help ensure all fields have been completed with valid data. The system tells you which fields are incomplete and doesn't allow you to submit unless all is correct.

In submitting this application, you agree you have read and agreed to the terms and conditions for Transnational Access as detailed within the Call for Access, the AQUAEXCEL Data policy- <https://aquaexcel.eu/wp-content/uploads/2021/07/INRAE-Data-Policy-for-the->



[AQUAEXCEL3\\_V6.pdf](#) and in the EC Model Grant Agreement – Article 16  
 ([https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/agr-contr/unit-mga\\_he\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/agr-contr/unit-mga_he_en.pdf))

**AUTHORISATION:** Please ensure you have any necessary authorisation from your own organisation to submit on behalf of that organisation. If a project is approved, it may be necessary to sign a contract between the applicant organisation and the host organisation requiring authorised legal signatures.

## EVALUATION

Applications are checked and then sent to two expert reviewers. Especially if your application is in a highly specialised area you can suggest potential reviewers using a nomination form available from the AQUAEXCEL3.0 website ([EXPERT REVIEWER APPLICATION](#)).

**Expert reviewers are asked to consider five main questions. The following notes indicate the consideration that may be given to each of these questions:**

### 1) Scientific Excellence

*Is the proposed work of high scientific quality?*

- Include original ideas?*
- Develops new techniques?*
- Contributes new knowledge?*

*Are the proposed research methods clearly described and appropriate to meet the stated objectives?*

*Are the proposed means of analysing the results appropriate (e.g., use of statistics)?*

*Is the described work feasible in relation to the time and resources available and the expertise and experience of those involved?*

### 2) Expected output

*What outputs are envisaged from the work and what might be their impact? What steps are planned for exploitation and dissemination?*

- Publications – type and quality,*
- Contribution to future research proposal,*
- Transfer to commercial sector,*
- Contribute to policy development*

*Potential impacts:*

- On future research*
- Commercially (economic benefits for applicant organisation and wider aquaculture industry)*
- On future policy/ strategy*

*What evidence is provided concerning the need for the research from industry (or expected user group)? What plans are there for further technology transfer?*

### 3) Compliance with EATIP Strategic Research and Innovation Agenda

*Does the applicant show familiarity with the EATIP SRLA and explain how their work will contribute? Does the work clearly address issues from the SRLA? Documents relating to the EATIP SRLA are available from the*

EATIP website: [http://eatip.eu/?page\\_id=46](http://eatip.eu/?page_id=46)

#### 4) Compliance with EC Agenda for broadening access

- is this a new partnership and a first working visit to the infrastructure for the applicant?*
- Is this making use of facilities that are not available in the home country of the applicant?*
- Does this provide access opportunities to scientists that might not otherwise be able to access such facilities?*

#### 5) Applicant/team (CVs)

*CVs are mainly provided for background to help evaluate various aspects of the proposal including scientific quality and how the project might fit into the wider programmes and collaborations of the applicant. However, it may also be appropriate to comment on whether the proposed work fits in with the wider research of the applicant, motivations for the project and likelihood of success. Where the applicant or main researcher is a student or early postdoctoral researcher, is there evidence of adequate supervisory support both from the applicant and host organisations?*

#### 6) Overall

*Summary of recommendations and if appropriate, raise any questions that should be put to the applicant before the Selection Panel finalise their decision. Overall recommendation can be indicated as:*

- Excellent, top priority*
- Very good, high priority*
- Good, medium priority*
- Fundable but low priority*
- Not fundable as currently presented*
- Un-fundable, clear rejection*

## SELECTION

Applications that pass the initial review stage are passed to the project Ethics Adviser for consideration and comment. The results of these reviews are then passed to the project Selection Panel for final decision on funding. The selection panel are required to take the following into account:

- Scientific excellence and potential impact of the proposed project
- No previous use of the infrastructure
- Nonexistence of such infrastructure in the country of the candidate
- Their geographical location
- The nature of the research project
- Motivation for accessing the AQUAEXCEL3.0 services and collections
- Potential for disseminating/publishing the results (i.e. must be free to publish and acknowledge<sup>2</sup>)
- A good gender, age and nationality balance will be taken into consideration

A period of at least 3 months should be allowed between project submission and decision on outcome of review.

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<sup>2</sup> SMEs and Private organisations are not required to publish their results, but must demonstrate other outcomes that are beneficial for aquaculture sector development such as new products or services.





## AQUAEXCEL Services as listed in ARIA

### **Absorbance and Fluorescence Spectrometry**

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Absorbance and Fluorescence Spectrometry at DTU-DSC  
Absorbance and Fluorescence Spectrometry at EPA  
Absorbance and Fluorescence Spectrometry at GRC  
Absorbance and Fluorescence Spectrometry at IAPW  
Absorbance and Fluorescence Spectrometry at IATS-ANA  
Absorbance and Fluorescence Spectrometry at IATS-EXP  
Absorbance and Fluorescence Spectrometry at IEO-AquaCOV  
Absorbance and Fluorescence Spectrometry at IFA  
Absorbance and Fluorescence Spectrometry at Institute of Aquaculture UoS  
Absorbance and Fluorescence Spectrometry at WU-MRU  
Absorbance and Fluorescence Spectrometry at WU-RAS

### **Access to facilities**

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Access to facilities at CCMAR Ramalhete Experimental Station  
Access to facilities at CCMAR-Labs and Platforms  
Access to facilities at DTU Aqua Aquatic Animal Health (AAH) at the Unit for fish and shellfish disease  
Access to facilities at IFR-PEARS (Palavas Experimental Aquaculture Research Station)  
Access to facilities at IFR-PMMB (Mollusc Experimental Platform of Bouin)  
Access to facilities at IFR-PMMLT (La Tremblade Experimental Aquaculture)  
Access to facilities at IMR-CELL land-based facilities  
Access to facilities at MATE HAKI-OEPS (Outdoor experimental pond system)  
Access to facilities at NTNU Centre for fisheries and aquaculture: Sealab  
Access to facilities at ULPGC-FITU (Feed Ingredients and Additives Testing Unit )  
INRAE-LPGP (Fish physiology and Genomics Facility)  
Access to facilities at INRAE-PEIMA (Experimental Fish Culture station of Monts d'Arrée)  
Access to Facilities at Freshwater site (NBFRU), Institute of Aquaculture UoS

### **Advanced Imaging Technologies**

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Live Cell Imaging at DTU-DSC  
Live Cell Imaging at ICS  
Live Cell Imaging at IERP  
Live Cell Imaging at ULPGC-MBS  
Live Cell Imaging at WU-MRU  
Live Cell Imaging at WU-RAS

### **Bacterial expression**

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Culture facilities for bacteria at IATS-ANA  
Culture facilities for bacteria at Institute of Aquaculture UoS  
Culture facilities for bacteria at MATE HAKI  
Culture facilities for bacteria at ULPGC-MBS  
Culture facilities for bacteria at WU-MRU  
Culture facilities for bacteria at WU-RAS

### **Bioassays**

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Cell culture at DTU-DSC  
Cell culture at EPA  
Cell culture at HCMR  
Cell culture at IATS-ANA

Cell culture at ICS  
Cell culture at Institute of Aquaculture UoS  
Cell culture at ULPGC-MBS  
Cell culture at WU-MRU  
Cell culture at WU-RAS  
In-situ hybridization at IATS-ANA  
In-situ hybridization at Institute of Aquaculture UoS

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**Biobank sample**

Biobank sample at ULPGC-MBS

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**Biochemical analysis**

Biochemical analysis at DTU-DSC  
Biochemical analysis at EPA  
Biochemical analysis at GRC  
Biochemical analysis at HCMR  
Biochemical analysis at IAPW  
Biochemical analysis at IATS-ANA  
Biochemical analysis at IATS-EXP  
Biochemical analysis at IFA  
Biochemical analysis at Institute of Aquaculture UoS  
Biochemical analysis at MATE HAKI  
Biochemical analysis at ULPGC-WWSSU  
Biochemical analysis at WU-MRU  
Biochemical analysis at WU-RAS  
Chemical Screening at IATS-EXP  
Chemical Screening at IERP  
Purification: chromatographic system at WU-RAS  
Purification: Protein/Nucleotid at IATS-ANA

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**Bioinformatics**

Bioinformatics at HCMR  
Bioinformatics at IATS-ANA  
Bioinformatics at ICS  
Bioinformatics at Institute of Aquaculture UoS  
Data analytic at DTU-DSC  
Data analytic at IATS-ANA  
Data analytic at ICS  
Data analytic at Institute of Aquaculture UoS

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**Calorimetry**

Calorimetry at Institute of Aquaculture UoS  
Calorimetry at WU-MRU  
Calorimetry at WU-RAS

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**Cell-free Expression**

Cell-free Expression at Institute of Aquaculture UoS

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**Cultivation and rearing facilities**

Culture facilities for algae (macroalgae) at NSTC  
Culture facilities for algae at DTU-DSC  
Culture facilities for algae at IEO-ICAR  
Culture facilities for algae at IEO-PAU  
Culture facilities for viruses at Institute of Aquaculture UoS

Culture facilities for viruses at ULPGC-MBS  
Culture facilities for viruses at WU-MRU  
Culture facilities for viruses at WU-RAS  
Infection facilities (for bacterial challenges) at IEO-ICAR  
Infection facilities (for bacterial challenges) at IERP  
Infection facilities (for bacterial challenges) at MATE HAKI  
Infection facilities (for bacterial challenges) at ULPGC-MBS  
Infection facilities (for challenges) at DTU-DSC  
Infection facilities (for challenges) at IERP  
Infection facilities (for challenges) at ULPGC-MBS  
Infection facilities (for viral challenges) at IERP  
Infection facilities (for viral challenges) at ULPGC-MBS  
Insect platform at DISAFA-INSECTS  
Marine site at ACE  
Marine site at Aqualabs  
Marine site at DTU-DSC  
Marine site at HCMR  
Marine site at IEO-AquaCOV  
Marine site at IEO-ICAR  
Marine site at IEO-PAU  
Marine site at Institute of Aquaculture UoS  
Marine site at NRCA  
Marine site at ULPGC-WWSSU  
Temperate research facility at Aqualabs  
Temperate research facility at DISAFA-AQUA  
Temperate research facility at DTU-DSC  
Temperate research facility at EPA  
Temperate research facility at IAPW  
Temperate research facility at IATS-EXP  
Temperate research facility at IEO-AquaCOV  
Temperate research facility at IEO-ICAR  
Temperate research facility at IEO-PAU  
Temperate research facility at IERP  
Temperate research facility at IFA  
Temperate research facility at Institute of Aquaculture UoS  
Temperate research facility at IPMA Aquaculture Research Station (EPPO)  
Temperate research facility at MATE HAKI  
Temperate research facility at NRCA  
Temperate research facility at RAS-Fish performance  
Temperate research facility at STPEE  
Temperate research facility at ULPGC-WWSSU  
Temperate research facility at WU-MRU  
Temperate research facility at WU-RAS  
Warm water research facility at DTU-DSC  
Warm water research facility at EPA  
Warm water research facility at IAPW  
Warm water research facility at IATS-EXP  
Warm water research facility at ICS

Warm water research facility at IEO-AquaCOV  
Warm water research facility at IEO-ICAR  
Warm water research facility at IFA  
Warm water research facility at Institute of Aquaculture UoS  
Warm water research facility at IPMA Aquaculture Research Station (EPPO)  
Warm water research facility at MATE HAKI  
Warm water research facility at NRCA  
Warm water research facility at RAS-Fish performance  
Warm water research facility at ULPGC-WWSSU  
Warm water research facility at WU-MRU  
Warm water research facility at WU-RAS  
Zebrafish at EPA

### **Diagnostic labs**

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Diagnostic labs at HCMR  
Diagnostic labs at IATS-ANA  
Diagnostic labs at IATS-EXP  
Diagnostic labs at Institute of Aquaculture UoS  
Histology at EPA  
Histology at GRC  
Histology at IAPW  
Histology at IATS-ANA  
Histology at IATS-EXP  
Histology at IEO-ICAR  
Histology at IERP  
Histology at IFA  
Histology at Institute of Aquaculture UoS  
Histology at ULPGC-MBS  
Histology at WU-MRU  
Histology at WU-RAS  
Preparation of test vaccines at Institute of Aquaculture UoS  
Preparation of test vaccines at ULPGC-MBS  
Preparation of test vaccines at WU-MRU  
Preparation of test vaccines at WU-RAS  
Serology at Institute of Aquaculture UoS  
Serology at ULPGC-MBS  
Serology at WU-MRU  
Serology at WU-RAS

### **Electron microscopy**

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Electron microscopy at WU-MRU  
Electron microscopy at WU-RAS

### **Feed manufacturing**

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Feed manufacturing at Aqualabs  
Feed manufacturing at IAPW  
Feed manufacturing at IEO-AquaCOV  
Feed manufacturing at IEO-ICAR  
Feed manufacturing at ULPGC-WWSSU

### **Flow Cytometry**

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Flow Cytometry at DTU-DSC

Flow Cytometry at Institute of Aquaculture UoS

Flow Cytometry at ULPGC-MBS

Flow Cytometry at WU-MRU

Flow Cytometry at WU-RAS

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**Identification, molecular typing and phylogenetic analysis**

Genotyping and gene expression at EPA

Genotyping and gene expression at GRC

Genotyping and gene expression at HCMR

Genotyping and gene expression at IAPW

Genotyping and gene expression at IATS-ANA

Genotyping and gene expression at IEO-AquaCOV

Genotyping and gene expression at IFA

Genotyping and gene expression at Institute of Aquaculture UoS

Genotyping and gene expression at MATE HAKI

Genotyping and gene expression at ULPGC-MBS

Genotyping and gene expression at WU-MRU

Genotyping and gene expression at WU-RAS

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**Image Processing**

Microscopy and bio-imaging at DTU-DSC

Microscopy and bio-imaging at IATS-ANA

Microscopy and bio-imaging at IATS-EXP

Microscopy and bio-imaging at ICS

Microscopy and bio-imaging at IERP

Microscopy and bio-imaging at MATE HAKI

Microscopy and bio-imaging at ULPGC-MBS

Microscopy and bio-imaging at WU-MRU

Microscopy and bio-imaging at WU-RAS

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**Ion Mobility Mass Spectrometry**

Ion Mobility Mass Spectrometry at Institute of Aquaculture UoS

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**Labelling Mass Spectrometry**

Labelling Mass Spectrometry at Institute of Aquaculture UoS

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**Light microscopy**

Light microscopy at DTU-DSC

Light microscopy at EPA

Light microscopy at ICS

Light microscopy at IEO-ICAR

Light microscopy at IERP

Light microscopy at Institute of Aquaculture UoS

Light microscopy at MATE HAKI

Light microscopy at ULPGC-MBS

Light microscopy at WU-MRU

Light microscopy at WU-RAS

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**Mammalian expression**

Mammalian expression at Institute of Aquaculture UoS

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**Marine Biology**

Marine Ecosystems at DTU-DSC

Marine Ecosystems at HCMR

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**Microscopy and bio-imaging**

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Fluorescent and confocal microscopy at ICS  
Fluorescent and confocal microscopy at IERP  
Fluorescent and confocal microscopy at WU-MRU  
Fluorescent and confocal microscopy at WU-RAS

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**Molecular biology and -omics**

Molecular labs at EPA  
Molecular labs at HCMR  
Molecular labs at IATS-ANA  
Molecular labs at IEO-AquaCOV  
Molecular labs at Institute of Aquaculture UoS  
Molecular labs at MATE HAKI  
Molecular labs at ULPGC-MBS  
Molecular labs at WU-MRU  
Molecular labs at WU-RAS  
Purification: Protein/Nucleotid at WU-MRU

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**Native Mass Spectrometry**

Native Mass Spectrometry at Institute of Aquaculture UoS

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**Proteomic Mass Spectrometry**

Proteomic Mass Spectrometry at Institute of Aquaculture UoS

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**Sequencing**

Sequencing at HCMR  
Sequencing at IATS-ANA  
Sequencing at ULPGC-MBS

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**Structural and chemical analysis**

Spectrophotometry at DTU-DSC  
Spectrophotometry at EPA  
Spectrophotometry at IAPW  
Spectrophotometry at IATS-ANA  
Spectrophotometry at IATS-EXP  
Spectrophotometry at ICS  
Spectrophotometry at IERP  
Spectrophotometry at Institute of Aquaculture UoS  
Spectrophotometry at MATE HAKI  
Spectrophotometry at WU-MRU  
Spectrophotometry at WU-RAS  
Structural and chemical analysis at DTU-DSC  
Structural and chemical analysis at IAPW  
Structural and chemical analysis at MATE HAKI  
Structural and chemical analysis at ULPGC-WWSSU

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**Systems Biology**

In-Vivo Modelling at IERP  
In-Vivo Modelling at Institute of Aquaculture UoS  
Marine Models at Aqualabs  
Marine Models at DTU-DSC  
Marine Models at HCMR  
Marine Models at Institute of Aquaculture UoS  
System Biology Modelling at DTU-DSC  
System Biology Modelling at ICS

System Biology Modelling at Institute of Aquaculture UoS

**Virus purification**

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Virus purification at Institute of Aquaculture UoS

Virus purification at ULPGC-MBS

Virus purification at WU-MRU

Virus purification at WU-RAS

**Yeast expression**

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Yeast expression at Institute of Aquaculture UoS





