

Eurasia 2016 - Long-term

Project document

Project identification

Project number CPEA-LT-2016/10106

Project title

Collaboration for education and research in oral pathology between Norway, Moldova, Belarus and Armenia

CONTRACT

Special conditions

A. CONTRACTING PARTIES

This contract is entered into by and between;

The Norwegian Centre for International Cooperation in Education, with organisation number 986 339 523 (hereinafter referred to as "SIU"); and
University of Bergen

(hereinafter referred to as the "Institution in Norway" or "IIN")

B. CONTRACT DOCUMENTS AND RULES OF INTERPRETATION

The Contract consists of these Special Conditions, the General Conditions and the Project Document. If there is a conflict between provisions in the Contract, the Special Conditions shall prevail over the General Conditions, and the General Conditions over the Project Document.

C. FINANCIAL CONTRIBUTION FROM SIU

In pursuance of (a) the Norwegian Cooperation Programme in Higher Education with Eurasia (the «Programme»), established through "Avtale om forvaltning av tilskuddsmidler og samarbeid mellom Utenriksdepartementet og Senter for internasjonalisering av utdanning (SIU) i perioden 2015-2020" (the «Programme Document»), and (b) the approval of the Project made by the committee authorized to allocate funds under the Programme Document, SIU hereby undertakes – on the terms and conditions set out herein this Contract – to make the following financial contribution (the «Funds») to the Institution in Norway in respect of the Project:

NOK 2999000

The Funds will be paid to the Institution in Norway in accordance with the schedule set out in Article D.1.

D. PROGRAMME AND PROJECT SPECIFIC PROVISIONS

Notwithstanding anything to the contrary in this Contract, the following specific provisions shall apply:

D.1 Disbursement of the Funds

In the first year of the Project, SIU shall pay: (i) 80 per cent of the amount budgeted for the first year of the Project as soon as possible and latest within 45 days after receipt of a duly signed and dated copy of the Contract; and (ii) 20 per cent of the amount budgeted for the first year of the Project within 45 days after SIU's approval of the start-up report (to be delivered to SIU within the deadline set in Article D.2.). In subsequent years of the Project, SIU will within 1 March disburse 60 per cent of the amount budgeted for the relevant year in the last progress report approved by SIU. The balance of the amount budgeted will be revised by SIU on basis of the subsequent progress report delivered in the Project. The balance (as revised) will be transferred latest within 45 days of SIU's approval of the subsequent progress report. Unused funds from the previous year, if any, may be deducted from the balance unless approved carried forward to the next year's budget. SIU's decisions with regard to approval or otherwise of the annual/final project reports and accounts shall be final.

D.2 Reporting obligations

The Institution in Norway shall within **1 September 2017** provide SIU with a start-up report, including a short description of the progress of project activities and any anticipated obstacles going forward. Thereafter, the Institution in Norway shall provide SIU with annual progress reports, including updated accounts, and a description of the progress of ongoing/planned project activities and any anticipated obstacles going forward. The annual progress reports shall be submitted to SIU within **1 March** each year. Lastly, upon finalisation of the Project, the Institution in Norway shall without undue delay provide SIU with a final project report containing final accounts for the Project, and a description of the Project Results together with an assessment of the overall success of the Project. The Institution in Norway must, to the extent necessary, consult all involved partners in order to prepare complete reports. The reports shall be delivered via SIU's online system [Espresso](#).

D.3 Programme specific provisions

None.

D.4 Project specific provisions

None.

General conditions

General conditions

Article 1 - Definitions

Subject to specific definitions made in the Special Conditions, the following terms shall have the meaning ascribed to them below:

Auditor General: The Office of the Auditor General of Norway (www.riksrevisjonen.no).

Force Majeure: A hindrance outside a party's control which is partly or wholly preventing it from performing its obligations under the Contract, and which could not reasonably have been foreseen or overcome.

Project: The project described in the Project Document.

Project Coordinator: The person designated as such in Section A.1 and A.2 of the Project Description.

Project Description: The information set out in Sections A – E.

Project Results: All results produced or achieved through the Project and capable of being protected under any intellectual property law, regardless of their form, nature and localization.

Article 2 - Project administration

The Institution in Norway shall make its utmost efforts to ensure that the Project is implemented in accordance with the Project Document, and proactively seek to formalize and coordinate project activities with all involved personnel and partners. The Project Coordinator shall ensure that all notification and reporting obligations set out herein are duly complied with.

The Institution in Norway shall ensure **(a)** that the implementation of the Project comply with all applicable statutes, laws and regulations in force or entering into force in the project period, as well as recognised norms for good project governance; and **(b)** that adequate steps shall at all times be taken to prevent/mitigate risk of irregularities, corruption and/or other unethical practices, in compliance with the «Guidelines for handling irregularities» (accessible on SIU's webpage).

The Institution in Norway warrants that the Funds (including any interest earned thereon) will be used exclusively for the purposes of implementing the Project, and that the project management will establish appropriate procedures for managing the Project's financial aspects (budgeting, accounting, reporting, etc.).

Article 3 - Disbursement, transfers and reservations

All disbursement obligations on part of SIU are subject to SIU's receipt of the allocation made under the Programme and any instructions from the entity/ies ultimately funding the Programme.

SIU shall be notified without delay if the Project is likely to receive grants or other similar funding from other public or private persons/entities. If such alternative funding results in a reduction of the own share of the Institution in Norway or its partners receiving a part of the Funds in the Project, SIU may reduce the Funds accordingly. The Institution in Norway shall be consulted before any such reductions are made.

If, after the Project has been completed, there exist any unused part of the Funds, such amount shall be repaid to SIU according to invoice. If the Funds are insufficient to ensure due completion of the Project, the Institution in Norway shall pay the amount necessary to complete the Project.

SIU accepts no liability for loss due to unfavorable exchange rates, errors in banking details provided, or adverse tax implications, and SIU will not cover any bank related costs/charges. Return of funds to SIU shall be made in the same currency as the disbursement from SIU.

Article 4 - Accounting, verification and audits

The Institution in Norway shall keep a separate project account for the Project, specifying the actual income and costs in the Project. The project account shall be kept current and in all respects be compliant with internationally recognised accounting principles, and form part of the Institution in Norway's formal accounts.

SIU and the Auditor General shall be entitled at any time to verify that the Funds are being applied in accordance with the Contract, and shall upon request be forthwith presented with receipts, time sheets, calculations and any other relevant documentary evidence necessary to carry out such verifications, and be allowed to inspect the progression of project activities and results. SIU reserves the right to carry out random audit checks without any prior notice.

Article 5 - Reporting

If SIU at any time finds the reporting obligations set out in Article D.2 insufficient to meet SIU's needs for information regarding the Project, SIU may amend the reporting obligation to meet such needs. Such amendments shall be notified well in advance and not be unreasonable.

Unless otherwise specified, all reporting pursuant to the Contract shall be made through SIU's online system "Espresso" (<http://espresso.siu.no>). All reporting on budgets and accounts shall be made in the same currency as the Funds.

Article 6 - Transfer of a part of the Funds to third parties

Insofar necessary in order to implement the Project, the Institution in Norway may transfer parts of the Funds to other institutions in Norway or abroad.

The Institution in Norway must ensure that the recipients of such transfers undertake to provide it with sufficient documentation to comply with its accounting and reporting obligations under this Contract.

Except from scholarships paid out to students in pursuance of the Project, salaries to personnel at the Institution in Norway and other amounts customarily paid out directly to personnel involved in such projects (e.g. per diem and the like), no part of the Funds may be transferred directly to any private person in Norway or abroad without SIU's prior written consent.

Article 7 - Liabilities and indemnifications

SIU's legal and financial responsibility in respect of the Project is strictly limited to its obligation to disburse the Funds in accordance with the terms and conditions of the Contract.

The Institution in Norway shall keep SIU fully indemnified from all risk, liabilities, claims, proceedings and any other adverse or potentially adverse effects whatsoever arising out of or in connection with the Project and/or the personnel/partners involved.

Article 8 - Use, publication and protection of Project Results

Unless otherwise agreed, the Institution in Norway shall publish the Project Results without undue delay after completion, and the Project Results shall thereafter remain available to the public on reasonable terms. Insofar necessary to secure such public access to the Project Results, SIU shall enjoy a royalty-free, non-exclusive, non-commercial right to translate, reproduce and distribute the Project Results, subject only to payment of costs necessary to facilitate such use.

Presentations of the Project and/or the Project Results to the public shall mention that the Project is funded by SIU and the relevant ministry under the Programme. Presentation to the public includes any presentation in any form to any part of the public.

Article 9 - Transfer of rights and use of sub-contractors

The Institution in Norway may not transfer, mortgage or otherwise pledge any of its rights and/or obligations under the Contract, without the prior written consent of SIU. The use of sub-contractors does not release the Institution in Norway from its obligations under the Contract, and sub-contractors may not be granted any form of entitlement to Project Results. Transfer of rights relating to the Project Results shall not prejudice SIU's rights pursuant to Article 8.

Article 10 - Deviations from the Project Document

Significant deviations from the project implementation procedure set out in the Project Document shall be forthwith notified to SIU in writing, and may not be deferred to the annual progress report. A deviation shall be considered significant **(a)** if it is likely to have an adverse effect > 20 per cent on the Project's yearly budget or progress; **(b)** if it involves changes to the Project management (hereunder the Project Coordinator or central academic personnel) in the Institution in Norway or any of its partner(s); or **(c)** if the deviation leads to any other major changes in the Project's implementation as set out in the Project Document (e.g. cancellation or considerable alteration of central project activities, damage or loss of key infrastructure, etc.).

The notice to SIU shall describe the deviation(s) and set out which measures have been/will be implemented to avoid/mitigate its effects and the prospect of such measures' success. Upon receipt of the notice, SIU will assess which impact the deviation(s) shall have on the Contract. Until SIU has responded, the Institution in Norway shall refrain from major financial dispositions in relation to the Project (e.g. payout to partners, accept comprehensive obligations, etc.) and to the extent possible seek to impose the same restriction on its partner(s).

If the deviation is remediable, SIU shall provide the Institution in Norway with a reasonable number of days to either remedy the deviation (grace period), or propose an amendment to the Project Document which mitigates its prejudicing effects or is otherwise agreeable. If the deviation is not remedied within the grace period, and no reasonable amendment of the Project Document is made available, SIU may discontinue its funding of the Project and instruct the Institution in Norway to immediately repay, and seek repaid from its partner(s), any unused part of the Funds. The Institution in Norway and its partner(s) shall be duly consulted before such discontinuation.

Article 11 - Breach of the Contract

Upon anticipated or occurred breach of the Contract, or reasonable suspicion thereof, SIU may wholly or partly suspend its disbursement of the Funds, and instruct the Institution in Norway to immediately (a) suspend the use of any part of the Funds already paid out to it, and (b) seek suspended the use of any part of the Funds paid out to its partner(s). Such instructions shall be confirmed in writing without undue delay.

The Institution in Norway shall always be provided with a reasonable number of days to rectify a breach (grace period). If the breach has not been rectified within the grace period, SIU may terminate the Contract and instruct the Institution in Norway to immediately repay, and seek repaid from its partner(s), any unused part of the Funds.

If the breach is substantial, SIU may instruct the Institution in Norway to immediately (a) repay, and seek repaid from its partner(s), any part of the Funds (whether used or not); and (b) transfer, and seek transferred from its partner(s), all rights to the Project Results and infrastructure primarily paid for by the Funds. Substantial breach includes, but is not limited to, (i) any act of fraud, corruption or other unethical practice by the Institution in Norway, its personnel or partner(s); (ii) anticipated or actual bankruptcy, dissolution or other winding up of the Institution in Norway or its partner(s); (iii) transfer of majority ownership and/or control in the Institution in Norway to an entity having jurisdiction outside the EEA; (iv) failure to abide by the rules referred to in Article 2; (v) failure to exclusively use the Funds on the Project in accordance with Article 2; (vi) failure to comply with audit requests in accordance with Article 4; (vii) failure to report to SIU in accordance with Article 5; (viii) breach of Article 6; (ix) failure to notify SIU of significant deviations in accordance with Article 10; and (x) any other substantial and continued failure to perform obligations under the Contract.

Article 12 - Force Majeure

If a breach of the Contract or a significant deviation from the Project Document is resulting solely from Force Majeure, the sanctions set out in Articles 10 and 11 may not be used.

If, however, the Force Majeure results in a situation where it is unlikely that the Project may be completed in accordance with the Project Document, or in any other reasonable way yielding similar results to those sought achieved in the Project, SIU may discontinue its funding of the Project and instruct the Institution in Norway to immediately repay, and seek repaid from its partner(s), any unused part of the Funds. The Institution in Norway and its partner(s) shall be duly consulted before such discontinuation.

Article 13 - Miscellaneous provisions

SIU generally reserves the right to invoke any rights and remedies it may have under Norwegian law.

Failure to exercise, or any delay in exercising, any right or remedy under the Contract or any applicable law, shall not in any way constitute a waiver of that or any other right or remedy, and no single or partial exercise of any such rights or remedies shall preclude or restrict the further exercise of such rights or remedies.

Any decision made by SIU in pursuance of Articles 10, 11 and 12 shall be deemed final. Such decisions may only be challenged through the procedure for settlement of disputes in Article 14.

This Contract does not confer any rights or remedies on third parties.

Article 14 - Settlement of disputes

The Contract shall be governed by and interpreted in accordance with Norwegian law. Any dispute arising out of or in connection with the Contract shall be sought resolved amicably. If the dispute cannot be resolved amicably, the Norwegian ministry (or such other entity) in charge of the Programme shall have absolute discretion to resolve the matter.

Bank information

Bank details

Bank name DNB
Bank address DNB, Dronning Eufemias gate 30, 0191 OSLO
Bank account holder University of Bergen, account nr. 76940500857
Payment reference 811233/132400

Signatures

Signature - Norwegian Centre for International Cooperation in Education (SIU)

Date:	Signature: Director General Harald E. Nybølet
Position:	

Signature - Institution in Norway

Legal representative, print name and title

Nils Erik Gilhus

Legal representative, signature

Date:	Signature:
Position:	

A

A.1 Main partner institution in Norway

Main partner institution in Norway (liN)

University of Bergen (NO-UiB)

Department (liN)

Department: Department of Clinical Medicine

Any decision made by SIU in pursuance of Articles 10, 11 and 12 shall be deemed final. Such decisions may only be challenged through the procedure for settlement of disputes in Article 14.

This Contract does not confer any rights or remedies on third parties.

Article 14 - Settlement of disputes

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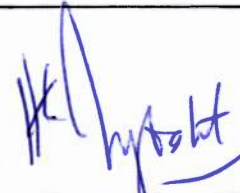
Bank information

Bank details

Bank name DNB
Bank address DNB, Dronning Eufemias gate 30, 0191 OSLO
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Payment reference 811233/132400

Signatures

Signature - Norwegian Centre for International Cooperation in Education (SIU)

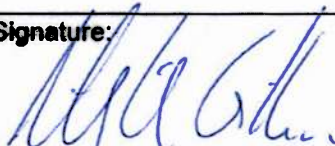
Date: 16/2/2017	Signature: 
Position:	Director General Harald E. Nybølet

Signature - Institution in Norway

Legal representative, print name and title

Nils Erik Gilhus

Legal representative, signature

Date: 8/2-17	Signature: 
Position: Head of Department	NILS ERIK GILHUS

A

A.1 Main partner institution in Norway

Main partner institution in Norway (IIN)

University of Bergen (NO-UIB)

Department (IIN)

Department: Department of Clinical Medicine

Head of department (IIN)

Name: Gilhus, Nils Erik
Email: Nils.Gilhus@uib.no
Phone number: +4755975044

Project coordinator (IIN)

Name: Costea, Daniela Elena
Gender: Female
Email: daniela.costea@uib.no
Phone number: +4755972565

A.2 Main partner institution outside Norway**Main partner institution outside Norway (IoN)**

State University of Medicine and Pharmacy "Nicolae Testemitanu" (MD-USMF)

Department (IoN)

Department: Faculty of Stomatology

Head of department (IoN)

Name: Lupan, Ion
Gender: Male
Email: ion.lupan@usmf.md
Phone number: +37322205276

Project coordinator (IoN)

Name: Uncuta, Diana
Gender: Female
Email: diana.uncuta@usmf.md
Phone number: +37379407641

A.3 Network partners**A.3.1 Are any enterprises in the public and/or private sector partners in the project?**

Yes

A.3.2 List of network partners

Institution: NO-University of Bergen (NO-UiB)
Unit: Center for International Health
Contact person: Moen, Bente
Gender: Female
Degree: PhD
Position: Head of Department, prof. in international health
Email: bente.moen@uib.no
Phone number: +4755588561

Institution: NO-University of Bergen (NO-UiB)
Unit: Department of Clinical Dentistry
Contact person: Nordrehaug Åstrøm, Anne
Gender: Female
Degree: PhD
Position: Head of Department, prof. in community dentistry
Email: Anne.Aastrom@uib.no
Phone number: +4755586483

Institution:	AM-Yerevan State Medical University (YSMU) (AM)
Unit:	Faculty of Stomatology
Contact person:	Markaryan, Marina
Gender:	Female
Degree:	PhD
Position:	Head of Department of Therapeutic Stomatology, prof. in community dentistry
Email:	Gana-stom@yandex.ru
Phone number:	+37491407257
Institution:	BY-Belarusian State Medical University (BY)
Unit:	Faculty of Dentistry
Contact person:	Shakavets, Natallia
Gender:	Female
Degree:	PhD
Position:	Head of Department of Pediatric Dentistry, Assoc. Prof. in pediatric dentistry
Email:	n.shakavets@gmail.com
Phone number:	+375296550521
Institution:	NO-UiT The Arctic University of Norway (NO-UiT)
Unit:	Department of Clinical Dentistry
Contact person:	Al-Haroni, Mohammed
Gender:	Male
Degree:	PhD
Position:	Assoc. prof. in oral ecology
Email:	mohammed.al-haroni@uit.no
Phone number:	+4777649151
Institution:	NO-Haukeland University Hospital (NO)
Unit:	Department of maxillofacial surgery
Contact person:	Neppelberg, Evelyn
Gender:	Female
Degree:	PhD
Position:	Head of Department of Maxillofacial surgery at HUS and Assoc. prof, UiB
Email:	evelyn.neppelberg@helse-bergen.no
Phone number:	+4755972720
Institution:	MD-Dia Dent (MD)
Unit:	General Dentistry Private Practice 'Dia Dent'
Contact person:	Tatiana, Japalau
Gender:	Female
Degree:	DMD
Position:	dentist
Email:	Tatianajapalau@gmail.ru
Phone number:	+37322296161
Institution:	NO-University of Bergen (NO-UiB)
Unit:	IT Department
Contact person:	Opedal, Helge
Gender:	Male
Degree:	Cand.sci.
Position:	senior engineer
Email:	helge.opedal@uib.no
Phone number:	+4797070907

Institution:	NO-University of Bergen (NO-UiB)
Unit:	Studieadministrativ avdeling
Contact person:	Bjørlo, Helge
Gender:	Male
Degree:	CandSci
Position:	consultant
Email:	Helge.Bjorlo@uib.no
Phone number:	+4755589241

Institution:	NO-University of Oslo (NO-UiO)
Unit:	Institute of Oral Biology; Faculty of Dentistry
Contact person:	Sapkota, Dipak
Gender:	Male
Degree:	PhD
Position:	assoc. prof.
Email:	dipak.sapkota@uib.no
Phone number:	99892712

A.4 Participants in the project

Name:	Antonenka, Anna
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	BY-Belarusian State Medical University

Name:	Azhgirey, Maria
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	BY-Belarusian State Medical University

Name:	Baraniuc, Alexandra
Gender:	Female
Degree:	Master in oral sciences
Position:	Dentist
Institution:	MD-Dia Dent

Name:	Bazikyan, Gagik K.
Gender:	Male
Degree:	PhD
Position:	Professor in oncology
Institution:	AM-Yerevan State Medical University (YSMU)

Name:	Belacerkovskiy, Ihar
Gender:	Male
Degree:	PhD
Position:	Assoc.prof. in oncology
Institution:	BY-Belarusian State Medical University

Name:	Bårdsen, Asgeir
Gender:	Male
Degree:	PhD
Position:	Professor in endodontics
Institution:	NO-University of Bergen

Name:	Cazacu, Eugen
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Gender:	Male
Degree:	Cand.med
Position:	PhD candidate at department of general pathology
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Cheptanaru, Olga
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Ciobanu, Sergiu
Gender:	Male
Degree:	PhD
Position:	Professor, Head of Department of odontology, paradontology an oral pathology
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Davtyan, Svetlana
Gender:	Female
Degree:	PhD
Position:	professor in histopathology
Institution:	AM-Yerevan State Medical University (YSMU)
Name:	Indrevik, June-Vibecke
Gender:	Female
Degree:	Cand.mag
Position:	Consultant in research affairs and PhD studies
Institution:	NO-University of Bergen
Name:	Ivasiuc, Irina
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Johannessen, Anne Christine
Gender:	Female
Degree:	PhD
Position:	Professor in oral pathology
Institution:	NO-University of Bergen
Name:	Kalvenes, May Britt
Gender:	Female
Degree:	PhD
Position:	chief engineer
Institution:	NO-University of Bergen
Name:	Krauzova-Kukhmar, Nadezhda
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	BY-Belarusian State Medical University
Name:	Littelkalsøy, Jorunn
Gender:	Female
Degree:	PhD

Position:	Researcher
Institution:	NO-University of Bergen
Name:	Manrikyan, Gayane
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of therapeutical and family dentistry
Institution:	AM-Yerevan State Medical University (YSMU)
Name:	Mustafa, Kamal
Gender:	Male
Degree:	PhD
Position:	Professor, Head of research lab at Departemnt for clinical dentistry
Institution:	NO-University of Bergen
Name:	Nasir, Elwalid
Gender:	Male
Degree:	PhD
Position:	Research coordinator
Institution:	NO-University of Bergen
Name:	Neppelberg, Evelyn
Gender:	Female
Degree:	PhD
Position:	Associate professor in oral surgery and oral medicine
Institution:	NO-Haukeland University Hospital
Name:	Nginamau, Elisabeth
Gender:	Female
Degree:	PhD
Position:	Consultant pathologist
Institution:	NO-Haukeland University Hospital
Name:	Nordrehaug, Anne
Gender:	Female
Degree:	PhD
Position:	Professor in community dentistry
Institution:	NO-University of Bergen
Name:	Parnov, Mihail
Gender:	Male
Degree:	Cand.med
Position:	PhD candidate at department of general pathology
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Rolland, Martha
Gender:	Female
Degree:	Dental student
Position:	Forskerlinje student
Institution:	NO-University of Bergen
Name:	Rudenok, Vasiliy
Gender:	Male
Degree:	PhD
Position:	Professor in anatomy, morphology
Institution:	BY-Belarusian State Medical University
Name:	Sahakyan, Sahak

Gender:	Male
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	AM-Yerevan State Medical University (YSMU)
Name:	Saptefrati, Lilian
Gender:	Female
Degree:	PhD
Position:	Assoicated Professor, Head of the Histology Department
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Skarstein, Kathrine
Gender:	Female
Degree:	PhD
Position:	Professor in oral pathology
Institution:	NO-University of Bergen
Name:	Skei, Jorunn
Gender:	Female
Degree:	Cand.mag
Position:	Administrative Director Department of Clinical Medicine
Institution:	NO-University of Bergen
Name:	Spinei, Aurelia
Gender:	Female
Degree:	PhD
Position:	Associated professor, Head of department of pediatric oro-maxillo-facial surgery, pedodontics and orthodontics
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Stepco, Elena
Gender:	Female
Degree:	PhD
Position:	Associated professor, Department of pediatric oro-maxillo-facial surgery, pedodontics and orthodontics
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Suliman, Nada
Gender:	Female
Degree:	PhD
Position:	guest researcher
Institution:	NO-University of Bergen
Name:	Tagadiuc, Olga
Gender:	Female
Degree:	PhD
Position:	Professor in biochemistry and Head of PhD research school
Institution:	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Name:	Tserakhava, Tamara
Gender:	Female
Degree:	PhD
Position:	Professor in pediatric dentistry
Institution:	BY-Belarusian State Medical University
Name:	Vardanyan, Izabella
Gender:	Female
Degree:	PhD

Position:	Associated professor in pediatric dentistry and orthodontics
Institution:	AM-Yerevan State Medical University (YSMU)
Name:	Volha, Zabelina
Gender:	Female
Degree:	Master in oral sciences
Position:	PhD candidate at department of general dentistry
Institution:	BY-Belarusian State Medical University
Name:	Øijordsbakken, Gunnvor
Gender:	Female
Degree:	Cand.sci.
Position:	Senior engineer - manager of the oral pathology laboratory
Institution:	NO-University of Bergen
Name:	Aass, Håvard Hoel
Gender:	Male
Degree:	Cand.mag
Position:	Senior consultant in finances and economy at Department of Clinical Medicine
Institution:	NO-University of Bergen

B

B.1 Information on the project

Project summary

B.1.1 Please provide a short summary of your project.

Oral pathology is a discipline at the border between pathology and dentistry, studying diseases of mouth, jaws and related structures such as oral mucosa, teeth, salivary glands, temporomandibular joints, facial muscles and perioral skin, as well as the oral manifestations of systemic diseases. Its origins are back in 1940s', related to the efforts of Danish dentist J Pindborg, a pioneer in oral pathology and a visionary, realizing the need of an international forum for this quite narrow academic and medical field. Following his steps, Scandinavian Fellowship for Oral Pathology and Oral Medicine (SFOPOM) puts considerable efforts for establishing common criteria and a joint curriculum for teaching of oral pathology in order to provide to the society the best quality trained dentists (e.g. SFOPOM: guidelines for oral pathology and oral medicine in the dental curriculum, Eur J Dent Educ. 2012 Nov;16(4):246-53).

In Norway, as in all Scandinavian countries, the dental students receive systematic education and training in oral pathology and have competence in conducting several diagnostic tests, such as tissue biopsies and microbiological samples, as well as interpreting the results and taking action accordingly, reducing in this way the burden on the specialized clinics. In Eurasia countries, oral pathology is at its commencement and its teaching to dental students is sporadic and spread over several disciplines, such that most of the patients are sent to specialist clinics even for small lesions or small biopsies that could be done by a general dentist with adequate knowledge and training in oral pathology.

The project aims thus at establishing a joint standardized oral pathology teaching curriculum aligned between the collaborative institutions and to initiate common research activities in this field. The vision is that this project will create the basis for developing a specialized teaching workforce at collaborative institutions and will bring awareness on needed services that could be provided to the community in the field of oral pathology by general dentists. Student and staff mobility is one of the key strategic elements of this project and it is meant to lead to knowledge transfer, ensured quality and standardization of research in oral pathology. The project is designed to address several levels: academic, administrative and technical laboratory level, in order to build a sustainable and harmonized higher education environment among collaborative institutions.

Academic discipline(s)

B.1.2 Which academic discipline(s) is the project related to?

- 1: Health sciences (503)
- 2: Basic and veterinary medicine and basal odontology (501)

B.2 Background information

History of cooperation

B.2.1 Please give a brief description of the history of cooperation between the project partners.

This is a recently established collaboration at the institutional level, supported by SIU through the project development funding CPEA-PD-2016/10027 and met with great enthusiasm and fully supported by the main collaborative institutions: (1) Institute of Clinical Medicine, K1, UiB, Norway, (2) Faculty of Stomatology, State University of Medicine and Pharmacy "Nicolae Testemitanu", Republic of Moldova, (3) Belarusian State Medical University, Minsk, Belarus, and (4) Yerevan State Medical University, Yerevan, Armenia.

It is based on an initial contact made between academics from Department of Pathology (oral pathology), K1, UiB with academics with interest in oral pathology research from Department of Pediatric, Oral and Maxillofacial, Faculty of Stomatology, State University of Medicine and Pharmacy "Nicolae Testemitanu", Moldova through common collaborators from University of Medicine and Dentistry Bucharest, Romania in relationship with an individual research project in oral cancer. UiB, through Center for International Health, has a long standing collaborative research activity within the fields of oral pathology & microbiology both in developed and developing countries (more than 20 years collaboration with Sudan, and approx. 10 years collaboration with UK, India, Kenya, Romania, China and Nepal) through both Quota program and individual international research projects.

With inspiration from the recently established Centre of Excellency in Research in Cancer Biomarkers CCBio, at K1, UiB, we have started a multi-center research project on biomarkers for early diagnosis and prognosis in oral cancer in Norway, UK, Romania, India, Nepal and Sudan and received funds for this both from UiB, Norwegian Cancer Association and Western Health Authority. Wanting to expand the network in order to get more representative results by involving patient cohorts across different demographic populations and with different etiological agents and biological features, we came in contact with the Moldavian collaborators that showed great interest in our project.

Through our interactions with the recent collaborators from Moldova, we have realized that the education and training in oral pathology for dental practitioners is very different between our countries, being at its infancy in Moldova, with only few trained academic staff (2 members of the staff trained in oral pathology, 1 prof and 1 assoc prof, only one English speaker), outdated study literature (EV Borovschi, Издательство "Медицина", 1988, Москва, in Russian), and spread lectures across several disciplines, in contrast to the unified and systematized teaching and training the dental students get in Norway.

The Moldavian collaborators introduced us to their strong regional collaborative network in Eastern Europe (Belarus) and Transcaucasia (Armenia) built for several years back, mainly in the field of community dentistry and epidemiology. Together they put efforts in implementation and adaptation of European indicators for the evaluation of oral health in their respective countries (e.g. An international pilot study of the validity of European indicators in assessment of children oral health, P leous, O Dienha, A Kalbaev, L Kiselnikova, A Markaryan, A Narykova, A Omelchenko, N Smolyar, A Spinei, A Khamadaeva, O Shevchenko Stomatologiceskii jurnal. Minsk, 2013, 3 (14), 204-209. ISSN 1990-9314.)

The collaborators from the State Universities in Moldova, Belarus and Armenia have similar gaps and needs for curriculum improvement in oral pathology and research development at their institutions. Nevertheless, the collaborators from both Moldova, Belarus and Armenia have a long tradition for thorough teaching and education in histology, morpho- and physio-pathology and a slightly different and much broader spectrum of oral diseases and oral health related questions, such that a collaboration between our institutions will further improve the competence in oral pathology and oral cancer research in Norway.

Links to research

B.2.2 Please describe how the project is linked to ongoing research activities and research cooperation between the partner institutions.

The research part of this project is centrally anchored in the research activities on going at Institute for Clinical medicine, UiB (<https://patexp.b.uib.no/research/biomarkers/>) and Centre for Cancer Biomarkers CCBio (<http://www.uib.no/en/ccbio/73506/oral-cancer>). As mentioned in the section above, we have a long lasting international collaborative activity in oral cancer research. Being a burden of disease especially in Sub-Saharan Africa, Central-South Asia and Eastern Europe, international, multi-center studies on biomarkers in oral cancer are important. So far, our team is part of a collaborative network which includes universities and health institutions from Norway, UK, Romania, India, Nepal and Sudan. The Moldovian, Belarusian and Armenian collaborators are newly recruited into this international team and project.

The Eurasia collaborators have, on the other hand, a long lasting and fruitful regional collaboration in the field of oral health (http://www.google.no/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0ahUKEwjz-vn0fXOAhUEhiwKHwT3Dp0QFggmMAE&url=http%3A%2F%2Fwww.bsmu.by%2Ffiles%2F8511768f96d0d4da44caa4d1664823b8%2F&usg=AFQjCNH1tEnCnKAEt1VND4d9xpSyuQ_SIQ&sig2=YvwfK09Q – abstract in English at the end of the article in Russian) that was recently expanded to include aspects of oral cancer epidemiology and etiology (individual research projects in collaboration between BSMU, YSMU and USMF 'Nicolae Testemiteanu: Genetic and environmental factors predisposing to oral mucosa lesions: Addressing the geographical difference in prevalence of oral mucosa lesions and Epidemiology and clinical-pathological correlations of water pipe related lesions of oral mucosa).

Previous and parallel funding

B.2.3 Previous funding

For this collaborative project we received funds for staff visits through specific calls for internationalization at SIU (seeding money EURASIA – 2016, CPEA- PD- 2 016/10027 – 'Collaboration for research and education in oral pathology and oral cancer between Norway, Moldova, Armenia and Belarus'). With that support we organized a workshop in Bergen and had academic guests from collaborative countries (2 from each) in which we discussed various aspects of education, training and research in oral pathology at our institutions. We also had invited guests from Department of Student Affairs, IT department, Center for International health and Institute for Clinical Dentistry, UiB, both academics as well as administrative and technical personnel.

We have several individual research grants from Norwegian Cancer Association (515970/2011), Western Health Authority (Helse Vest, grant nr. 911902/ 2014), and Bergen Medical Research Foundation 20/2009 that support research activities in collaboration in the field of oral cancer for the multicenter collaborative project that we would like to continue through the EURASIA program: 'Development of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia.'

Our collaborators from State University of Medicine and Pharmacy "Nicolae Testemitanu", Moldova have several projects in collaboration with the respective state universities from Yerevan, Armenia and Belarus within TEMPUS (Master Programs in Public Health and Social Services) and GEOHEALTH programs.

B.2.4 Concurrent applications

No.

B.3 Description of the project

B.3.1

Project goals

B.3.1.1 Please state the goals of the project.

General aim:

To standardize education in oral pathology and increase the awareness on oral cancer and oral mucosal diseases by developing joint standardized requirements and training experts for high quality education, research and practice in oral pathology.

Specific goals:

1. To identify the current status and develop joined standardized requirements for teaching and training in oral pathology within the undergraduate & postgraduate dental curriculum between collaborative institutions.
2. To develop and start the implementation of teaching in oral pathology under the form of courses, workshops and seminars in oral pathology utilizing the existent competence and knowledge of the staff members at all collaborative institutions (including new digital courses at both UiB, UiT and institutes in Eurasia).
3. To build up teaching and research competence in oral pathology at both UiB, UiT and Eurasia collaborators through staff and student mobility and their involvement in join teaching, practical training and research projects.
4. To improve the administrative and technical (laboratory) routines at the collaborative institutions for facilitating delivery of research-based education.
5. To increase the links between private dental sector and Specialized Clinics in Dental University Hospitals in the collaborative countries by testing in Moldova the Norwegian procedure of diagnosis of oral diseases involving private dental practitioners.
6. To increase the awareness of both dental practitioners and general public on the importance of early diagnosis of oral mucosa lesions, particularly oral cancer and precancerous lesions.

B.3.1.2 Please describe the needs to be addressed by the project.

Oral cancer (OC) is the 11th most common cancer worldwide (Ferlay J, 2010). The 5-year survival is around 80% following diagnosis and treatment of early, localized OC, but it drops to less than 20% with advanced clinical stages. Oral cavity cancers are also twice as common in men than in women with major risk factors including smoking, alcohol use and human papilloma virus infections. The incidence of oral cavity cancers varies widely across the world with Eastern Europe countries, such as Belarus and Moldova, being among the regions with the highest incidence rates (24.9 and 22.8 respectively) as opposed to Scandinavian countries, such as Norway, where the incidence is two-three times lower (10.8) (Ferlay et al., 2013). The differences in the demographics and habits of the population of these regions might explain this, but the significant difference in mortality between for example the 7.1 of Belarus and 0.8 of Norway (Ferlay et al., 2013) can be attributed with parameters related to the management of this diseases, such as early and precise diagnostic and rapid treatment, and in this respect the availability of skilled dental practitioners and the awareness of the general population for oral cancer and precancerous lesions are of essential importance.

Oral pathology has been pioneered by a Danish doctor and following this tradition, teaching, research and practice in oral pathology in Scandinavian countries are well standardized and developed. As a consequence, oral premalignant and malignant lesions are identified earlier than in other parts of the globe, increasing the 5 year survival of oral cancer patients till 70.5%. The preliminary investigative work of the representatives of the collaborative institutions from Eurasia region that has been discussed at the workshop hold in Bergen in August 2016, indicates that oral pathology is at its infancy in the East European (Moldova and Belarus) and Transcaucasian countries (Armenia) and common efforts to improve the knowledge and quality of services provided to the general population in these collaborative countries is much needed. The country with the most developed curriculum in oral pathology seems to be Moldova, due to its collaborations with dental education institutions from Romania and US where oral pathology is a discipline on its own. From examination of the curriculum of the institutions from Moldova, Belarus and Armenia, it is clear that teaching in oral pathology related issues is performed in a non-systematic way, being included either in the course curriculum of oral surgery or pedodontics.

These problems and needs can be systematized in:

1. Lack of systematized teaching and training on oral pathology in the collaborative countries from Eurasia region.
2. Shortage of adequately qualified oral pathology educators and practitioners in EURASIA collaborative countries.

3. Extremely limited experience in research in the field of oral pathology (only one PhD and one Dr Habilitation thesis in Moldova, authored by the coordinator from Moldova).

In addition to the above mentioned PROBLEMS AND NEEDS specific to the EURASIA collaborators, there are shared needs for internationalization and improvement of oral pathology teaching and research shared by all collaborators of this proposed project as follows:

4. Since oral pathology is a very specific, narrow niche, it is important to establish a common 'area of knowledge' in which activities and interactions in higher education, mobility, and employment opportunities can be easily facilitated and increased.

5. To develop more accurate and personalized treatment strategies for oral cancer there are necessary common efforts from multiple regions and multicentered studies .

6. There is regional specific presentation of oral health-related problems, that's why a broader collaboration and exchange of knowledge within oral pathology will improve the clinical experience among teachers and students at their specific dental school, including dental schools from Norway.

Expected results

B.3.1.3 Please describe what results are expected to be achieved through successful implementation of the project

Expected results:

- joint standardized requirements for teaching and training in oral pathology
- joint courses in research methodology in oral pathology
- joint oral pathology digital platform
- 6 mobile master students from Norway to Eurasian partners (due to the capacity in supervision mainly for epidemiological and clinical projects only master students will go from Norway to Eurasia countries)
- 6 mobile PhD students from Eurasian partners to Norway (addressing the need for developing capacity for reserach-based aducation in oral pathology in Eurasia countries; the mobile PhD students will be among the already identified young promising staff at the respective partners).
- 18 mobile academic staff exchanged between Norway and Eurasian partners
- at least 6 scientific presentations at international meetings
- submission of at least 3 joint publications in international peer-review journals
- public webpage, at least 4 articles in newspapers (1 in each partner country), radio and TV activities for increasing awareness of the general public.

B.3.1.4 Student mobility

Type	From	To	Number of travelers	Duration	Level	Total grant
Long-term (3 months or more)	Armenia (AM)	Norway (NO)	2	10m, 0w, 0d	PhD	0
Research visit						
Long-term (3 months or more)	Belarus (BY)	Norway (NO)	2	10m, 0w, 0d	PhD	0
Research visit						
Long-term (3 months or more)	Moldova, republic of (MD)	Norway (NO)	2	10m, 0w, 0d	PhD	0
Research visit						
Short-term (up to 3 months)	Norway (NO)	Armenia (AM)	2	3m, 0w, 0d	Master	0
Field work (Data Collection) and Research stay						
Short-term (up to 3 months)	Norway (NO)	Belarus (BY)	2	3m, 0w, 0d	Master	0
Field work (Data Collection) and Research stay						
Short-term (up to 3 months)	Norway (NO)	Moldova, republic of (MD)	2	3m, 0w, 0d	Master	0
Field work (Data Collection) and Research stay						

Total	12	78m, 0w, 0d	0
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Travel summary

	AM	BY	MD	NO
Long-term (3 months or more)				
Armenia (AM)				2
Belarus (BY)				2
Moldova, republic of (MD)				2
Short-term (up to 3 months)				
Norway (NO)	2	2	2	

Course name:	Diagnostic Oral Pathology
Course code/ID:	
Description:	<p>This course will equip students with a systematic understanding of oral pathological conditions that require diagnosis by histopathological methods. Students will also learn when further information or additional procedures are needed to confirm a diagnosis. The course will present as well various research tools used to advance the practice of diagnostic oral pathology.</p> <p>The course is aimed at master and PhD dental and medical students (20+) for developing their competence in the microscopical diagnosis of common and significant oral pathological lesions. It will be an online course developed using a digital platform maintained at UiB, but with scientific contribution from all institutions involved in the project.</p> <p>The course will be implemented during the last year of the project and maintained afterwards by the involed institutions.</p>
Level:	Master
Fields of education and training - ISCED F2013:	Other medical sciences
Language of teaching:	English
ECTS Credits (or similar):	6,00
Start:	2019
Awarding institution(s):	NO-University of Bergen
Will the programme qualify for an academic degree (Bachelor, Master or PhD)?:	No

Course name:	Experimental Oral Pathology
Course code/ID:	
Description:	<p>fundamental training in the principles of laboratory research methods and the range of techniques used to study the behaviour of oral tissues in health and disease.</p> <p>The course is aimed at dental or biomedical graduates wishing to extend their knowledge of oral pathology and especially those wishing to embark on a career in academic research either as full-time researchers or clinical academics. The course can act as a stepping stone to PhD studentships.</p> <p>This programme will:</p> <ul style="list-style-type: none"> ◦Equip you with transferable laboratory skills, in addition to those gained as part of the research project ◦Teach you how to write papers and present them to your peers, and for publication ◦Allow you to spend time as an integrated part of a specific research project/team. This is a completely hands on experience of a real research question ◦Introduce you to experimental design and research.
Level:	PhD
Fields of education and training - ISCED F2013:	Other medical sciences

Language of teaching:	English
ECTS Credits (or similar):	4,00
Start:	2018
Awarding institution(s):	MD-State University of Medicine and Pharmacy "Nicolae Testemitanu"
Will the programme qualify for an academic degree (Bachelor, Master or PhD)?:	No

B.3.2

Work plan

B.3.2.1 Please provide a brief work plan for the project.

Work package 1: generation and implementation of joined standardized guidelines for education and training in oral pathology for master and PhD degrees.

Task 1.1.

Milestone: delineating the existent educational and training curriculum in oral pathology of master students and the guidelines for PhD degree in oral pathology at each partner institute.

Time frame: first 3 months.

Task 1.2.

Milestone: generating a blue print of a harmonized curriculum for education and training in oral pathology for master and PhD degrees.

Time frame: first semester of the project. Workshop 1 in the first semester of the first year of the project, USMF 'Nicolae Testemiteanu', Moldova.

The new harmonized curriculum in Oral Pathology (to be implemented at all partner institutions) should provide the dental students with competence in:

- synthesise diagnosis, differential diagnoses, and prognosis of common diseases and disorders of the oral mucosa, teeth, jaws and salivary glands
- comprehend cellular and molecular processes, aetiology, pathogenesis, and classifications of diseases/disorders of the oral mucosa, teeth, jaws and salivary glands
- evaluate (react, treat, prevent, and/or refer) diseases and disorders in the maxillofacial area and maxillofacial manifestations of systemic diseases and medical disorders on the basis of clinical presentation (incl. radiography) and/or histological diagnosis
- undertake soft tissue biopsies of presumably benign lesions
- be capable of detailed professional communication with other health professions (orally and in writing).

Areas of improving/changing the curriculum will be defined during the planned workshop on this, but from the discussions we had already, we have identified few knowledge areas and key skills that the dentists should perform by themselves and not send the patients to specialists:

- taking a biopsy and/or cytological smear on indication.
- the procedures for submitting specimens for histological diagnosis
- proper referral of a patient with complicated or life-threatening oral mucosal diseases including oral cancer
- understanding and interpreting diagnostic reports and take adequate actions.
- microbiological sampling
- be aware of risk factors e.g. antibiotic resistance and drug interaction and the effects of abuse of alcohol and narcotic drugs on the oral Health.

Task 1.3.

Milestone: institutional approval from each collaborator's home institution of the minimal requirements, including core compulsory topics, performance of joint courses between partners focusing on oral pathology.

Time frame: second semester till the end of first year of the project.

Task 1.4.

Milestone: increased awareness on the need for training in oral pathology of general dentists and establishing a strategy for implementation of the joint curriculum in the system existent at home institution.

Time frame: first semester of the second year; Workshop 2 in the middle of the second year of the project, YSMU Armenia.

Task 1.5.

Milestone: implementation of the new, joint standardized guidelines for education and training in oral pathology for master and PhD degrees.

Time frame: rest of the project time of 1,5 years.

Work package 2: developing experts for education and training in oral pathology.

Task 2.1. Staff exchange

Milestone: exchange of 18 staff members.

Time frame: whole duration of the project.

Task 2.2. Student mobility

Milestone: exchange of 12 Master and PhD students (6 master and 6 PhD students).

Time frame: whole duration of the project.

Work package 3: Research Projects.

Task 3.1. Projects within the field of epidemiology of oral mucosa lesions.

Milestone: completion of the respective / part of the research project; presentations at international meetings, publications in peer-reviewed international journals.

Time frame: whole duration of the project.

Task 3.2. Projects within the field of pathology/biology of oral mucosa lesions.

Milestone: completion of the respective / part of the research project; presentations at international meetings, publications in peer-reviewed international journals.

Time frame: whole duration of the project.

Task 3.3. Clinical projects.

Milestone: completion of the respective / part of the research project; presentations at international meetings, publications in peer-reviewed international journals.

Time frame: whole duration of the project.

Work package 4: development of joint courses (including on line courses; digital oral pathology)

Task 4.1. development of a joint course for research methodology in oral pathology and oral cancer

Milestone: completion of the course.

Time frame: whole duration of the project.

Task 4.2. Development of a digital platform for on line postgraduate course in oral pathology

Milestone: establishment of the digital platform for delivering the course.

Time frame: whole duration of the project.

Work package 5: management.

Task 5.1. Communication within the project.

Milestone: webpage for this project related to our Institutions/ Research groups websites.

Approach: the webpage will be set up using the servers at UiB and each of the partners will upload information. The coordinator of the project will ensure regularly updates.

Time frame: set up in the 1st month of the project and regularly updated.

Task 5.2. Communication outside the project.

Milestone: webpage for this project related to our Institutions/ Research groups websites.

Approach: The "informed reader" is difficult to identify, but we believe in transparency, so we will set up a web-page with information to both research community and the general public. We will also use relevant newspapers, magazines, TV and radio stations, and we hope that by informing through these channels our aim to support the reader's perception of local and international science can be reached.

Time frame: whole duration of the project.

Task 5.3. Annual reporting

Milestone: individual reports from each partner institution.

Approach: reports will be delivered to the the coordinator of the project and freely circulated between the partners to ensure transparency.

Time frame: at the end of each year of the project.

Task 5.4. Final reporting

Milestone: individual final reports from each partner institution and a final workshop.

Approach: the reports will be delivered to the the coordinator of the project and freely circulated between the partners. At the workshop we will discuss the resistance & challenges faced at the implementation of the project and generate new strategies for tacking this in the future and continuation of the project beyond the project period.

Time frame: towards the end of the project. Workshop 3 at BSMU, Belarus.

B.3.2.2 Please describe how each of the project partners (including any network partners) will contribute to the project.

1. Department of Clinical Medicine, University of Bergen, Norway will:

- coordinate and lead the project.
- provide academic competence in oral pathology / general pathology and experimental research. As personnel with potential for supervision this partner has the capacity of 5 professors and researchers (DE Costea- tumor pathology, AC Johannessen – oral pathology, K Skarstein- oral pathology, E Nginamau – general pathology and immunology and J Littlekalsøy – molecular pathology).
- provide administrative competence for management of educational and research activities (2 senior consultants: J Skei and H Aass).
- provide technical laboratory competence for oral pathology procedures (2 senior engineers: G Oøjordsbakken and MB Kalvenes).
- provide advanced equipment and infrastructure for performance of educational and research-related activities in the field of oral pathology.
- host 2 PhD students from the partner Eurasia partners each year.
- contribute to student mobility, academic, administrative and laboratory technical staff exchange.
- provide high-quality courses in research methods and cancer-related issues thought the Research School established at Center of Excellency for Research in Cancer Biomarkers CCBio.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, (2) Epidemiology and clinical-pathological correlations of electronic cigarettes related lesions of oral mucosa, (3) Risk of HPV and other factors for head and neck squamous cell carcinoma, (4) Expression of synthase, nitrogen oxide, PGP 9.5, vasoactive intestinal polypeptide in epithelium and nervous structures in oral mucosa lesions in children and adolescence. (5) Path morphology and treatment of chronic recurrent aphthous stomatitis in children.

2. Faculty of Stomatology, State University of Medicine and Pharmacy "Nicolae Testemitanu", Republic of Moldova will:

- be the main partner institution.
- provide general academic competence and expertise mainly in epidemiological and clinical research. As personnel with potential for supervision this partner has the capacity of 7 associate professors and professors (D Uncuta-performed the only PhD in Republica Molodva within oral pathology field, I Lupan – professor general stomatology ,S Ciobanu – professor and chair of odontology, paradontology an oral pathology, E Stepcu and A Spinei □ associated professors in pediatric oro-maxillo-facial surgery, pedodontics and orthodontics; L Saptefrati – professor, chair of histology, O Tagadiuc Olga – professor in biochemistry, Director of the PhD School at USMF "Nicolae Testemitanu").
- host 2-4 master students from Norway or other Eurasia partners.

- contribute to student mobility, academic, administrative and laboratory technical staff exchange. The partner has already identified 4 young promising staff/ PhD students that would like to be involved in the joint research projects (Ivasiuc Irnia □ stomatology; Cheptanaru Olga □ stomatology; Parnov Mihail □ general pathology; Cazacu Eugen □ general pathology)
- provide infrastructure for international meetings and access to clinics and existent laboratories.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, (2) Epidemiology and clinical-pathological correlations of electronic cigarettes related lesions of oral mucosa, (3) Risk of HPV and other factors for head and neck squamous cell carcinoma, (4) Path morphology and treatment of chronic recurrent aphthous stomatitis in children, (5) Dental Caries-related Beliefs and Behaviors among Children and Adolescents.

3. Belarusian State Medical University, Minsk, Belarus will:

- provide general academic competence and expertise mainly in epidemiological and clinical research. As personnel with potential for supervision this partner has the capacity of 4 associate professors and professors (N Shakavets – assoc prof in pediatric dentistry, T Tserakhava – associate prof in pediatric dentistry, V Rudenok - prof. in anatomy, morphology, I Belacerkovskiy – asssoc prof in oncology).
- host 2-4 master students from Norway or other Eurasia partners.
- contribute to student mobility, academic, administrative and laboratory technical staff exchange. The partner has already identified 4 young promising staff/ PhD students that would like to be involved in the joint research projects (Krauzova-Kukhmar Nadezhda, Azhgirey Maria, Zabelina Volha, Antonenka Anna)
- provide infrastructure for international meetings and access to clinics and existent laboratories.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, (2) Epidemiology and clinical-pathological correlations of electronic cigarettes related lesions of oral mucosa, (3) Risk of HPV and other factors for head and neck squamous cell carcinoma, (4) Expression of synthase, nitrogen oxide, PGP 9.5, vasoactive intestinal polypeptide in epithelium and nervous structures in oral mucosa lesions in children and adolescence, (5) Path morphology and treatment of chronic recurrent aphthous stomatitis in children (6) Dental Caries-related Beliefs and Behaviors among Children and Adolescents.

4. Yerevan State Medical University, Yerevan, Armenia will:

- provide general academic competence and expertise mainly in epidemiological and clinical research. As personnel with potential for supervision this partner has the capacity of 4 associate professors and professors (M Markaryan –prof in therapeutic stomatology, I Vardanyan – associate prof in pediatric dentistry, Gagik K. Bazikyan – prof in oncology and Svetlana Davtyan – professor and Head of the laboratory of histopathology).
- host 2-4 master students from Norway or other Eurasia partners.
- contribute to student mobility, academic, administrative and laboratory technical staff exchange. The partner has already identified 2 young promising staff/ PhD students that would like to be involved in the joint research projects (Gayane E.Manrikyan - department of therapeutical and family dentistry) and Sahak E.Sahakyan - course of general dentistry).
- provide infrastructure for international meetings and access to clinics and existent laboratories.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, (2) Epidemiology and clinical-pathological correlations of electronic cigarettes related lesions of oral mucosa, (3) Risk of HPV and other factors for head and neck squamous cell carcinoma, (4) Path morphology and treatment of chronic recurrent aphthous stomatitis in children, (5) Dental Caries-related Beliefs and Behaviors among Children and Adolescents.

5. Department of Clinical Dentistry, University of Bergen, Norway (IKO, UiB) will:

- contribute to the management and coordination of the project.
- provide high-quality courses in research methods, biostatistics and epidemiology in odontology
- provide academic competence and expertise in community and preventive dentistry, biostatistics and biomaterials/tissue engineering. As personnel with potential for supervision this partner has the capacity of 5 associate professors and professors (A Nordrehaug –prof in community dentistry, E Nasir – assoc

prof in community dentistry, N Suliman - assoc prof, K Mustafa – professor in tissue engineering, A Bårdsen – prof in endodontics).

- provide administrative competence for management of educational and research activities (1 senior consultant: J Indrevik).
- provide advanced equipment and infrastructure for performance of educational and research-related activities in the field of dentistry, biomaterials and tissue engineering.
- contribute to student mobility, academic, administrative and laboratory technical staff exchange.
- participate to joint research projects assigned for master and PhD stud such as: (1) Epidemiology and clinical-pathological correlations of electronic cigarettes related lesions of oral mucosa, (2) Risk of HPV and other factors for head and neck squamous cell carcinoma, and (3) Dental Caries-related Beliefs and Behaviors among Children and Adolescents.

6. Department of Clinical Dentistry, University of Tromsø, The Arctic university of Norway

- provide academic competence and expertise in oral microbiology. As personnel with potential for supervision this partner has the capacity of 1 associate professor Al-Haroni Mohammed – assoc prof in oral biology.
- provide high-quality courses in oral microbiology and antibiotic resistance.
- contribute to student mobility, academic, and administrative staff exchange.
- provide infrastructure for laboratory research in oral microbiology/ oral biology field .
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, and (2) Risk of HPV and other factors for head and neck squamous cell carcinoma.

7. Centre for International Health, University of Bergen, Norway (CIH, UiB) will

- provide high-quality courses in global health, epidemiology and statistics.
- provide academic competence and expertise in global health.
- contribute to student mobility and academic staff exchange.

8. Institute of Oral Biology, Faculty of Dentistry, University of Oslo, Norway will:

- provide academic competence and expertise in oral pathology, oral anatomy and histology. As personnel with potential for supervision this partner has the capacity of 1 assoc.prof. D Sapkota – assoc prof in oral pathology and oral anatomy.
- contribute to student mobility and academic staff exchange.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, and (2) Risk of HPV and other factors for head and neck squamous cell carcinoma.

9. Department of oro-maxillofacial surgery, Haukeland University Hospital, Bergen, Norway will:

- provide academic competence and expertise in oral surgery and oral medicine. As personnel with potential for supervision this partner has the capacity of 1 assoc prof- E Neppelberg – assoc prof in oral surgery and oral medicine.
- contribute to academic staff exchange.
- participate to joint research projects assigned for master and PhD stud such as: (1) Development and validation of a molecular diagnostic tool for early diagnostic and personalized treatment of oral cancer in Europe, Africa and Asia, and (2) Risk of HPV and other factors for head and neck squamous cell carcinoma.

10. IT Department, University of Bergen, Norway will:

- provide competence and expertise in IT and on line teaching courses and modules (senior engineer H Opedal).
- contribute to IT staff exchange.
- participate to establishment of the online digital platform.

11. Department of student affairs, University of Bergen, Norway will:

- provide competence and support for international student exchange (consultant Helge Bjørlo).
- contribute to administrative staff exchange.

12. General Dentistry Private Practice 'Dia Dent', Chisinau, Moldova

- provide the infrastructure for testing the Norwegian model of using oral pathology competence in the private sector of general dental services in Moldova.

B.4 Assessment of sustainability, risk and cross-cutting issues

Sustainability

B.4.1 Please explain how the proposed project activities and the effects sought achieved through the project will be sustained and financed after the project period.

The essential elements for a sustainable development and harmonization of teaching and research in oral pathology is the establishment of a mutually accepted roadmap for development of oral pathology and a reasonable specialized workforce of experts in the field. We have involved in this project key academics with high advocacy potential and some with decisional power (heads/chairs of departments, director of PhD school, deans) to ensure a smooth implementation of the modifications of the curriculum. According to Hettne (2004), harmonization is a cyclical, process, that's why adjustments to the project plan presented here are to be expected. Nevertheless, our activities are driven by a common vision anchored in serious needs demanded by the health status of the general population, thus providing a serious motivation for continuous efforts to train the best quality dentists and for identification of best way to manage oral diseases in a regional-specific setting. We envisage that the curriculum modifications will be possible to be maintained due to the fact that this project will also provide:

- (1) well trained and knowledgeable academic personnel that will add to the institutes' capacity and be able to teach and train dental students and supervise research activities within oral pathology
- (2) competent administrative and technical personnel that will support research activities and research-based teaching
- (3) e-tools in the form of an oral digital platform that can be used for teaching in oral pathology
- (4) increase awareness of the academia in general on the importance of oral pathology and oral cancer related issues.

If our small pilot project involving the private dental clinic will show that it is possible to implement oral pathology services for general population in a private setting, we think that with proper dissemination of this information through the local forums/organizations of dentists, the interest for learning oral pathology will increase and this will pressure on maintainin/improving the curriculum for teaching oral pathology.

In addition, we would like to mention that we have been able so far to obtain grants for our research projects within oral pathology (see the section on previous funding), and the activities and competence built by this project will only increase our chances for obtaining such grants in the future.

B.4.2 Please describe how the project is linked to strategies and priorities of the project partners, and how the project will enhance long-term collaboration between the partners.

All partner institutions have as strategy to create general guidelines for degree comparability and strengthen international collaboration. These general guidelines will facilitate and smoothen international student mobility and hassle-free movement of academics, which will increase the quality of teaching, training and research in the long run. Oral pathology is a discipline that needs development in the partner institutions from Eurasia and continuous advancing at institutions in Norway, thus a collaboration within this field will augment the individual efforts of each institution. By aiming at a harmonised system of higher education, and initiating common research projects, this project will stimulate continuous interactions and mobility for students, faculty members and talents between the involved partners, in line with the internationalization scheme of each of the involved partners.

B.4.3 Please explain how and to what extent the project will lead to increased mobility of students between the partner institutions.

The project plan includes mobility of 6 master students from Norway to Eurasian partners and 6 PhD students from Eurasian partners to Norway. The master students from Norway will be either dental or medical students taking integrated master in dentistry/medicine or master students enrolled at Center fro International Health,. Several young promising staff in the process of taking their PhD/ willing to be enrolled in a PhD program at their respective institutions from Eurasia partners have been identified, and 6 of these will be offered a scholarship through this project for a stay at an institution in Norway. We have already identified common research interests and research projects that can be jointly run at the partner

institutions. We aim at providing at least 2 supervisors to each master and PhD students, one from each collaborative institutions involved.

It is envisaged that the results of the research projects and the competence built by this project will enable us to write competitive grant applications to EU or national financing bodies both in Norway and in the respective Eurasia countries.

Risk assessment

B.4.4 Please describe potential risk factors that may impede successful implementation of the project, and how the effects of such risks may be mitigated.

1. We have already identified major curriculum differences between institutions in Norway and the partner institutions in Eurasia and these might cause impediments in the process of harmonization. To cope with this, we already have involved key academics in the project with the thought that they will have the advocacy power to implement or at least start the proposed changes.

2. The tight teaching schedule of dental education in the partner Eurasian institutions limits the motility of students from Eurasia to Norway to PhD students only. According to the information we got from our partners in Eurasia, motility of master students will be possible only during the summer months, when there is holiday in Norway. Therefore the mobility from Eurasia to Norway is at the PhD level only.

3. Excessive bureaucracy in the Eurasia countries might impede our activities. This has been early signaled and identified and therefore we have involved from the planning stage administrative personnel and have aimed at building up competence in administration in education and research in addition to the academic competence.

4. There are cultural differences between EURASIA countries and Norway that might pose some challenges for the exchanged students and staff, particularly for the PhD students coming from EURASIA countries for a longer stay in Norway. To meet these challenges, we have agreed with SIB that the students coming to Norway will receive the welcome introductory package offered centrally at UiB to all exchange students. In addition, we will use our experience with several Quota students coming to our department previously. Our research group and department are one of the most international from MOFA, and we have currently staff and students from 7 different countries, which we think will be a supportive environment for the new EURASIA students coming here. The collaborators from EURASIA countries have confirmed that the students and staff coming from Norway will benefit by their administrative support that normally welcomes the foreign students for taking dental and medical bachelor studies there (for which they have parallel teaching in English and Russian).

5. Coordination of the high number of partner institutions might also be a challenge that we thought to meet by having a very clear and transparent managing style, with very clearly delineated tasks for each institutions and individuals. The fact that the 3 collaborators from EURASIA have collaborated before and have similar academic interests and systems does help in this respect. Working on this project proposal worked also very smooth both during the workshop and the email /teleconferences exchanges afterwards, encouraging us to think we will manage well to collaborate for this project.

Cross-cutting issues

B.4.5. Please describe how aspects relating to gender perspectives, gender balance and gender equality have been assessed and, if relevant, implemented in the project.

The gender balance is in favor of females when it comes to the involved personnel (22 females and 11 males) and coordinators (both females) of this project. We are aware of this gender distribution and through recruitment strategies we will balance it more.

The leaders of the involved institutions are all males. This reflects the general trend when it comes to gender distribution in academia: predominance of females in intermediate positions and predominance of males in leadership positions. Through continuous development and accumulated experience we aim at developing leadership qualities among the females involved in our project.

B.4.6 Please describe briefly what measures will be taken to ensure that corruption or mismanagement of funds does not take place in the project.

We will prevent irregularities and corruption to affect our project through:

- transparency: annual financial and scientific reports will be submitted by all institutions to the coordinator; the budgets will be accessible to all partners and approved by the coordinators together with the administrative personnel of the main partners.
- openness: major issues/changes in the plan should be reported and discussed with the coordinators.
- involvement and exchange of administrative staff.

D - Project activities and budgetary allocations

D.1 Project development

Project development

Name:	WP 4: development of joint courses (including a digital oral pathology platform)
Activity:	Development of new educational materials and methods, including digital content and tools
Description:	<p>Activity 1: Development of a joint intensive course for research methodology in oral pathology and oral cancer Approach: by using the capacity available at the partner institutions. For planning and arranging the course, both Skype teleconferences, and physical meetings during the workshops for joint curriculum development and staff exchange will be performed.</p> <p>Activity 2. Development of a digital platform for on line postgraduate course in oral pathology Approach: acquisition/ensuring the necessary equipment at all partner institutions and establishing a common digital platform.</p>
Start:	Jun/2017
End:	Dec/2019
Participants:	
Budget:	

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	17 000	17 000	17 000	51 000
Meeting costs	0	0	0	0
Other	122 500	2 500	2 500	127 500
SUM - Activity	139 500	19 500	19 500	178 500
SUM - Total	139 500	19 500	19 500	178 500

Comments:	<p>The budget has been calculated as follows:</p> <ul style="list-style-type: none"> - acquisition of digital cameras 40 000 NOK x3 = 120 000 NOK first year in order to be able to develop digital oral pathology at the collaborative institutions. - travel of 3 IT persons, one in each year from/ Norway to/from one of the collaborative institutions. 19 500 NOK per person: 8 000 NOK flight + 500 NOK visa + 9 000 NOK accommodation and food for 6 days (1 000 NOK for accommodation and 500 NOK for food each day) + 2 000 unexpected expenses.
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Name:	Participation in conferences & publications
Activity:	Dissemination activities
Description:	<p>We plan to make the research activities of this project visible to the international community both by presentations at international conferences, publication of papers in peer-reviews international journals, and popularization of science to the general public. Our group as well as our collaborative partners, have reach experience both in publishing the results to the scientific community (please see our CVs) as well as in presenting our research to the general public through various media (TV and newspapers: Norsk munnslimhinne under lupen by Knut Fougner, NRK2, http://www.nrk.no/programmer/radio/verdt_a_vite/3251968.html; Kunstige slimhinners uante muligheter, foredrag, Forskningsdagene 2005, Strødet Pub, Bergen. http://www.hib.no/forskningsdagene/2005/foredrag.html; Ny forskning viser: SLS lite gunstig for celler i kunstig munnslimhinne av T. Wilhelmsen Scannews, s.2-3, nr. 2, 2007, Forskere finner genner som kan predikere overlevelsen hos munnhulekreft pasienter av Silje Gro, Bergen Tidende, 13 December 2012).</p>
Start:	Jan/2018

End: Dec/2019

Participants:

Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	0	40 000	40 000	80 000
Meeting costs	0	0	0	0
Other	0	10 000	10 000	20 000
SUM - Activity	0	50 000	50 000	100 000
SUM - Total	0	50 000	50 000	100 000

Comments: The budget includes expenses for participation to international meetings of 2 persons each year for the last 2 years of the project. We estimated approx. 20 000 NOK per person per international meeting. 40 000 NOK per year for 2 persons, 80 000 NOK for 4 persons for the whole period of the project. We have included also expenses related to publication of research articles, estimated to 10 000 per year (for 1-2 publications per year) for the last 2 years of the project.

Name: WP 1 & 5: workshops for joint curriculum development and management.
Activity: International project meetings
Description: Workshop 1 will aim at identification of common grounds as well as gaps in curriculum for education and training in oral pathology for master and PhD degrees at the collaborating institutions based on the reports sent by each partner. Curriculum development is a dynamic process so changes on the way will be, of course, expected, but few things should be set such as: minimal requirements for teaching in oral pathology within the dental curriculum, the set of compulsory topics, requirements for the training component. For planning of joint courses, both face to face and on line courses should be considered (on line courses are reducing budget, and increase capacity). It will take place in the first semester of the project, at USMF 'Nicolai Testemiteanu', Chisinau, Moldova.

Workshop 2 will aim at for reporting on the results of the advocacy and deciding on the strategy for implementation. It will take place in the middle of the second year of the project, at YSMU, Yerevan, Armenia.

Workshop 3 will aim to analyse the achievements of the project based on the final reports. At the workshop we will also discuss the resistance & challenges faced at the implementation of the project and generate new strategies for tackling this in the future and continuation of the project beyond the project period. The workshop will take place in the last semester of the last year of the project at BSMU, Minsk, Belarus.
Start: Mar/2017
End: Dec/2019
Participants: 60
Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	130 000	143 000	157 300	430 300
Meeting costs	20 000	22 000	24 200	66 200
Other	25 000	25 000	25 000	75 000
SUM - Activity	175 000	190 000	206 500	571 500
SUM - Total	175 000	190 000	206 500	571 500

Comments: Budget 2017 - Workshop 1 USMF, Moldova
- total of 20+ participants but around 10 will be travelling there.
- flight tickets for 10 persons (approx. 8 000 NOK per flight ticket, there will be some variation in the price from different locations, but this will balance each other) = 80 000 NOK
- accommodation for 10 persons at a hotel in Chisinau (e.g. Hotel Jolly Alon in the centrum), approx 1 000 NOK per night at present, 1 000 kr per night X 5 nights = 5 000 NOK per person x 10 = 50 000 NOK).
- total of travel and accomodation 80 000 NOK + 50 000 NOK = 130 000 NOK
- meeting costs include - stationary, local transport there, lunches, renting of rooms , etc, appreciated to be at around 20 000 NOK.

- other costs include costs for visa (10 persons x 500 NOK fee for visa = 5 000 NOK) plus other unexpected costs, appreciated at around 2 000 NOK per person. In total this would be 5 000 + 20 000 = 25 000 NOK).

Budget 2018 - Workshop 2 YSMU, Armenia

The costs were evaluated on similar rates as for Workshop 1, adding 1% for inflation rate for accommodation and meeting costs.

Budget 2019 - Workshop 3 BSMU, Belarus

The costs were evaluated on similar rates as for Workshop 2, adding 1% for inflation rate for accommodation and meeting costs.

Name:	WP.1 Generation and implementation of joined standardized guidelines for education and training in oral pathology for master and PhD degrees.
Activity:	Joint curriculum development
Description:	<p>This work package includes a wide range of activities from identification of the current educational and training requirements for master dental students, to organization of workshops for finding common grounds and strategies, advocacy activities for changing the current curriculum, designing, organizing and performing new courses, till contacting the media, etc., as described below:</p> <p>Activity 1. Delineating the existent educational and training curriculum in oral pathology of master students and the guidelines for PhD degree in oral pathology at each partner institute. Approach: Each institution will provide the following documents: (1) list of courses offered for graduates / postgrads in oral pathology with details about content, h, ECTS; (2) requirements (if any) for PhD/Master programs at their institution; (3) list of courses wished /needed to be implemented.</p> <p>Activity 2. Generating a blue print of a harmonized curriculum for education and training in oral pathology for master and PhD degrees. Approach: Workshop 1 for identification of common grounds as well as gaps in curriculum for education and training in oral pathology for master and PhD degrees at the collaborating institutions. Curriculum development is a dynamic process so changes on the way will be, of course, expected, but few things should be set such as: minimal requirements for teaching in oral pathology within the dental curriculum, the set of compulsory topics, requirements for the training component. For planning of joint courses, both face to face and on line courses should be considered (on line courses are reducing budget, and increase capacity).</p> <p>Activity 3. Acquiring institutional approval from each collaborator's home institution of the minimal requirements, including core compulsory topics, performance of joint courses between partners focusing on oral pathology. Approach: Advocacy. Some resistance and changes are expected, but it is expected to obtain the approval from the home institution for the minimal standardized common requirements.</p> <p>Activity 4. Increasing the awareness on the need for training in oral pathology of general dentists and establishing a strategy for implementation of the joint curriculum in the system existent at home institution. Approach: Advocacy + workshop 2 for reporting on the results of the advocacy and deciding on the strategy for implementation. This is a challenging task, and continuous adjustment will be needed, but it is envisaged that this effort will set in motion a chain of events resulting in increased awareness on oral pathology issues and subsequently, sooner or later, will lead to changes in the curriculum. We will also test the Norwegian model of using oral pathology competence in the private sector in a private clinic in Moldova (this is included and described in more detail at the collaboration with private enterprises).</p> <p>Activity 5. Implementation of the new, joint standardized guidelines for education and training in oral pathology for master and PhD degrees. Approach: Through a combination of strategies such as: changing the current curriculum, generating and performing new courses (WP 4), testing the use of oral</p>

pathology competence in the private sector, organizing 'Oral Mucosal Awareness Days' in connection with the workshops, contacting the media, etc.

Start: Jan/2017
 End: Dec/2019
 Participants: 60
 Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	0	0	0	0
Meeting costs	0	0	0	0
Other	40 000	40 000	40 000	120 000
SUM - Activity	40 000	40 000	40 000	120 000
SUM - Total	40 000	40 000	40 000	120 000

Comments: The budget includes costs for a diverse range of items and activities, from small stationary till unexpected expenses related to advocacy at each of the partners'home institution. This has been the most difficult to estimate, but after extensive discussions with the administrative personnel and leadership at K1, CIH and IKO, we have agreed to an amount around 10 000 NOK per year per institution involved, 10 000 NOK x4 = 40 000 NOK per year.

Travel and accommodation expenses to workshops and to hold/ attend joint courses have not been included here. They are included at either international meetings or staff and student exchange.

D.2 Implementation of educational activities

Implementation of joint educational activities

Name: WP 2: developing experts for education and training in oral pathology through staff exchange
 Activity: Courses/trainings/study visits for academic and administrative staff
 Description: Activity: Exchanging 18 staff members
 Approach: Each year 2 academic or 1 academic and 1 administrative /technical personnel will be exchanged between Norway and each of the three partners in Eurasia, in total 6 persons per year, 18 staff members for the whole duration of the project. There might be also exchanges between Eurasia partners at later time points.
 Start: Jan/2017
 End: Jun/2019
 Level: All levels
 Participating students:
 Participating faculty: 18
 ECTS:
 Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	102 000	102 000	102 000	306 000
Venue and local transport	0	0	0	0
Student scholarships	0	0	0	0
Other	15 000	15 000	15 000	45 000
SUM - Activity	117 000	117 000	117 000	351 000
SUM - Total	117 000	117 000	117 000	351 000

Comments: The budget was calculated for exchange of 2 staff members each year to each of the 3 partners as follows:

19 500 NOK per person: 8 000 NOK flight + 500 NOK visa + 9 000 NOK accommodation and food for 6 days (1 000 NOK for accommodation and 500 NOK for food each day) + 2 000 unexpected expenses = 19 500 per each staff member exchanged.

Per year there will be exchanged 6 staff members: 19 500 NOK x 6 = 117 000 NOK.

For 3 years this would mean 3 x 117 000 NOK = 351 000 NOK in total for staff exchange.

Name: WP 3: research projects.
 Activity: Joint project assignment for students
 Description: A. Projects within the field of epidemiology of oral mucosa lesions
 Approach: surveys, cross-sectional studies.

B. Projects within the field of pathology/biology of oral mucosa lesions.
 Approach: laboratory based studies, cohort studies.

C. Clinical projects.
 Approach: clinical observational and interventional studies.

Start: May/2017
 End: Dec/2019
 Level: Master and PhD
 Participating students: 12
 Participating faculty: 24
 ECTS:
 Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	0	0	0	0
Venue and local transport	0	0	0	0
Student scholarships	0	0	0	0
Other	400 000	100 000	100 000	600 000
SUM - Activity	400 000	100 000	100 000	600 000
SUM - Total	400 000	100 000	100 000	600 000

Comments: In order to performed the research activities we need minimal equipment at the partner institutions. There is some equipment available at the collaborating institutions, so we have included here achizition of a basic microscope / camera in the first year, based on the preliminary offers from Leica representatives in the respective countries 100 000 NOK per institution - 100 000 x 3 = 300 000 NOK.

In addition to that we have estimated the need for some running costs of 100 000 NOK per year. This includes expenses for data/sample collection included in WP3-B (such as brush biopsies, glass slides, collection tubes, one-use scalpel blades and collection medium – estimated at 10 000 per year) and pathology reagents for performing laboratory based studies included in WP3-C (such as hematoxylin-eosin, Shandon immunomounting media, antibodies, visualization agents – estimated at 90 000kr).

Name: WP 2: developing experts for education and training in oral pathology through student exchange
 Activity: Student mobility
 Description: Activity: Exchanging of 12 Master and PhD students.
 Approach: Each year 2 master students from Norway will go for 3 months to one of the collaborative Eurasia countries and 2 PhD students will come from the collaborative Eurasia countries to Norway for period of 6 months during the first year and for 10 month during the last 2 years. There might be also exchanges between Eurasia partners which will be research project-directed.

Start: Apr/2017
 End: Dec/2019
 Level: Master and PhD
 Participating students: 12
 Participating faculty: 24
 ECTS:
 Budget:

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	32 000	32 000	32 000	96 000
Venue and local transport	0	0	0	0
Student scholarships	228 000	356 000	356 000	940 000
Other	4 000	4 000	4 000	12 000
SUM - Activity	264 000	392 000	392 000	1 048 000
SUM - Total	264 000	392 000	392 000	1 048 000

Comments: The budget is calculated for an exchange as follows:
- 6 master students in total, 2 master studs each year from Norway to Eurasia: 53 000 NOK each year. The costs per master student going from Norway were calculated according to the rules from the call document at 26 500 NOK (8 000 NOK flight + 500 NOK visa + 6 000 x 3 months = 18 000 NOK scholarship for extra costs)
- 6 PhD students, 2 Phd studs each year from Eurasia to Norway, 337 000 NOK per year. The costs per PhD student were approximated to be 168 500 NOK per student (8 000 NOK flight + 500 NOK visa + 160 000 NOK the scholarship for an average of 10 months stay in Norway). The first year the exchange of students will start most likely a bit later than the project start, so PhD student exchange will take place only for the second half of year.

D.3 Collaboration with enterprises

Collaboration with enterprises in the public and private sectors

Name:	Testing the private sector for delivery of oral medicine/oral pathology services
Activity:	Facilitation of student involvement in R&D projects and/or involvement of private or public enterprises in student projects
Description:	<p>In Norway dental students are trained to recognize most common diseases of oral mucosa and jaws (basic oral medicine) and are trained in techniques of taking biopsies, interpretation of the oral pathology reports and management of most common oral diseases. In collaborative countries, if a private dentist observes an oral lesion, most common practice is to send the patient to an oral/maxillofacial surgery specialist, most of which are within the University Dental Hospitals/Clinics.</p> <p>In parallel with increasing the skills of staff / master and PhD students at these clinics, we plan to test if simple oral medicine /pathology services can be delivered in the private practice settings in the collaborative countries, since dental care is now moving from the public sector to the private sector both in Moldova, Belarus and Armenia, and knowledge and competence in recognizing and managing oral pathology cases by general private dentists became more and more important. For this we will involve one private clinic that has been previously involved in academic-private sector collaborations: DiaDent private Clinic, Chisinau, Moldova.</p> <p>In this respect we will use the experience of the coordinator from Moldova, Dr Uncuta who led a previous project in collaboration with Dentistry Department of the Moldova State Medical University and University of North Carolina at Chapel Hill School of Dentistry, offering free dental treatment to underprivileged children from orphanages (https://moldova.usembassy.gov/pr032909.html). Master and Phd students from the Dentistry Department of the "N. Testemitanu" Moldova State Medical and Pharmaceutical University, as well as the exchanged students through this project will have access to the private clinic and together with three practicing dentists will be involved in diagnosis of oral disease that require oral medicine competence, harvesting of biopsy and interpretation of the oral pathology diagnostics and management of the disease.</p>
Start:	Jan/2018
End:	Dec/2019
Level:	Master and PhD
Participating students:	6
Participating faculty:	3
Budget:	

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Activity				
Travel and accommodation	0	0	0	0
Venue and local transport	0	0	0	0
Student scholarships	0	0	0	0
Other	0	15 000	15 000	30 000
SUM - Activity	0	15 000	15 000	30 000
SUM - Total	0	15 000	15 000	30 000

Comments:

The budget for this activity includes expenses for small equipment (scalpels, tweezers, needles, suture thread) and consumables for taking biopsies appreciated at 5 000 NOK per year and a compensation to the patients volunteering for this in the form of the payment for the anatomo-pathological exam of the biopsy (67 MDL + 137 MDL = 87 NOK approx. 100 NOK per biopsy for a cohort of 100 patients per year = 10 000 NOK). This activity will take place only the last two years of the project.

E - Budget

NOK - Norwegian kroner	Budget 2017	Budget 2018	Budget 2019	Sum
Collaboration with enterprises				
Facilitation of student involvement in R&D projects and/or involvement of private or public enterprises in student projects - Testing the private sector for delivery of oral medicine/oral pathology services	0	15 000	15 000	30 000
SUM - Collaboration with enterprises	0	15 000	15 000	30 000
Implementation of educational activities				
Courses/trainings/study visits for academic and administrative staff - WP 2: developing experts for education and training in oral pathology through staff exchange	117 000	117 000	117 000	351 000
Joint project assignment for students - WP 3: research projects.	400 000	100 000	100 000	600 000
Student mobility - WP 2: developing experts for education and training in oral pathology through student exchange	264 000	392 000	392 000	1 048 000
SUM - Implementation of educational activities	781 000	609 000	609 000	1 999 000
Project development				
Development of new educational materials and methods, including digital content and tools - WP 4: development of joint courses (including a digital oral pathology platform)	139 500	19 500	19 500	178 500
Dissemination activities - Participation in conferences & publications	0	50 000	50 000	100 000
International project meetings - WP 1 & 5: workshops for joint curriculum development and management.	175 000	190 000	206 500	571 500
Joint curriculum development - WP.1 Generation and implementation of joined standardized guidelines for education and training in oral pathology for master and PhD degrees.	40 000	40 000	40 000	120 000
SUM - Project development	354 500	299 500	316 000	970 000
Salary and indirect costs				
Salary, remuneration of consultants and indirect costs	0	0	0	0
SUM - Salary and indirect costs	0	0	0	0
SUM - Total	1 135 500	923 500	940 000	2 999 000

Comments to the budget

2/3 of the budget is allocated for implementation of educational activities and 1/3 of the budget for project development, evenly distributed between the three years of the project.

There are no salary and indirect costs included, each of the partners providing academic, administrative and technical staff to this project (see letters of commitment).

The partners also provide the infrastructure for running the project, apart of few specific scientific equipment necessary for (digital) education in oral pathology that have been included in the budget (160 000 NOK per Eurasia collaborative institute = 480 000 NOK in total).

Confirmation

Confirmation

It is hereby confirmed that the Project Coordinator at the Main partner institution in Norway has duly acquainted himself/herself with the terms and conditions of the Contract