



Workshop de lansare

al proiectului RO-NO-2019-0187 cu titlul

"Sisteme active de administrare a medicamentelor pe bază de nanoparticule magnetice funcționalizate cu peptide pentru tratamentul bolilor urechii interne" (TargEar)

30 septembrie 2020, Ora 10^{00}

Sala Cavalerilor

Sediul Universității "Apollonia" din str. Păcurari, nr. 11, Iași

Promotor:

UNIVERSITATEA "APOLLONIA" din Iași, România

Parteneri:

INSTITUTUL DE CERCETĂRI BIOLOGICE IAȘI FILIALĂ A INCDSB BUCUREȘTI, Iași, România UNIVERSITY OF OSLO, Oslo, Norvegia







Acest eveniment se va desfașura respectând toate normele sanitare în vigoare Purtarea măștii și distanțarea sunt OBLIGATORII!

https://www.univapollonia.ro/targear/

www.eeagrants.ro

www.norwaygrants.org

https://uefiscdi.gov.ro/eea-grants-proiecte-colaborative-de-cercetare











First workshop meeting

in the Romanian-Norwegian Research Project TARGEAR

"Apollonia" University of lasi

30 September 2020 lasi, Romania











ACTIVE TARGETED DRUG DELIVERY SYSTEMS BASED ON PEPTIDE-FUNCTIONALIZED MAGNETIC NANOPARTICLES FOR THE TREATMENT OF INNER EAR DISEASES (TargEar)

Code: RO-NO-2019-0187
Financing contract no 15 / 2020

Name of the Program: Research - RO 02

Total value of public funding:: 1.163.984 euro (5.624.137,90 Lei)

Project start date: 01.09.2020 Project duration: 36 months

Promoter:

"APOLLONIA" UNIVERSITY of Iasi, Romania

Project Partners:

INSTITUTE OF BIOLOGICAL RESEARCH IASI, branch of NIRDBS, Iasi, Romania UNIVERSITY OF OSLO, Oslo, Norway

Funding: Financial Mechanism NO 2014-2021 and the Government of Romania

Program Operator: The Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI)

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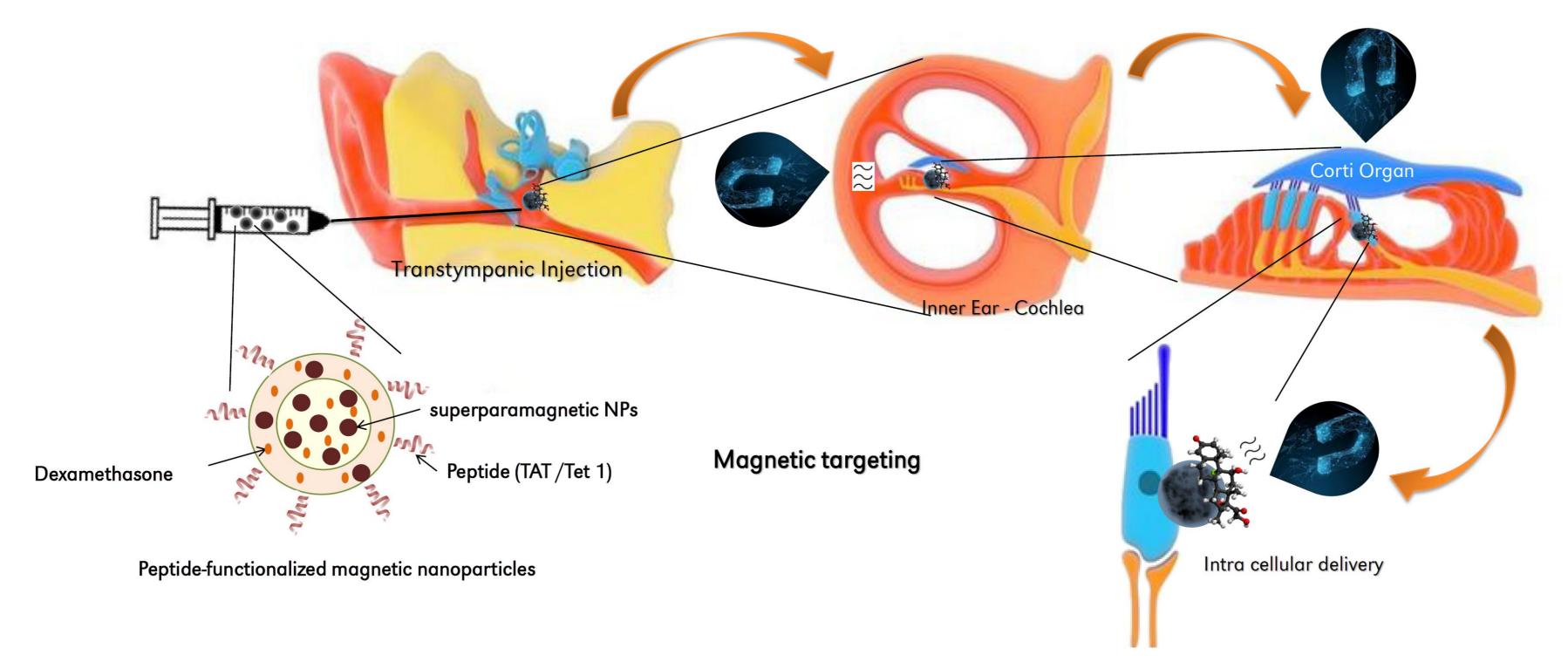






General aim:

Preparation of peptide-functionalized magnetic nanocarriers (oligochitosan-based nanocapsules and oligochitosan-coated liposomes) loaded with a model drug.



The schematic representation of this project general aim











Specific objectives that will lead to achieving the general aim are:

- a) Synthesis of oligochitosan, peptide-functionalized oligochitosan and magnetic nanoparticles as precursors;
- b) Preparation of peptide-functionalized oligochitosan magnetic nanocapsules loaded with dexamethasone;
- c) Preparation of magnetic liposomes coated with oligochitosan and loaded with dexamethasone;
- d) In vitro evaluation of the biomaterial properties of the obtained nanocarriers;
- e) In vitro assessment of the behavior of the obtained nanocarriers at a cellular level.











Key targets:

- ♣ Drug-loaded peptide-functionalized magnetic nanocapsules with diameters smaller than 200 nm.
- ♣ Drug-loaded peptide-functionalized magnetic liposomes with diameters smaller than 200 nm.
- ♣ Peptide-functionalized magnetic nanocarriers (liposomes and nanocapsules) with diameters smaller than 200 nm loaded with fluorescein.
- Publication of 6 ISI articles.
- 4 12 participations at international conferences.
- 4 bilateral workshops











Team members

Name	Position	Academic degree			
UNIVERSITY OF OSLO - Partner 2					
Nystrom Bo	Principal Investigator P2				
Sande Sverre Arne	Experienced researcher				
PhD student - Vacant	PhD student				
"APOLL	"APOLLONIA" UNIVERSITY of lasi - Promoter				
Popa Marcel	Project manager	University professor			
Popovici Daniela Raluca	Economic Manager	nced researcher University professor			
Atanase Leonard Ionut	Experienced researcher				
Cadinoiu Anca Niculina	Experienced researcher				
Rata Delia Mihaela	Experienced researcher	Scientific researcher (CS III)			
Daraba Oana Mihaela	Experienced researcher	University lector			

Name	Position	Academic degree		
Mihalache Gabriela	Experienced researcher	Associate professor		
Radulescu Luminita	Experienced researcher	University professor		
Martu Marius Cristian	Junior researcher	University assistant		
Popovici Corina	PhD student	PhD student		
INSTITUTE OF BIOLOGICAL RESEARCH IASI - Partner 1				

	Vochita Gabriela	Principal Investigator P1	Scientific researcher (CS II)	
	Gherghel Daniela	Experienced researcher	Scientific researcher (CS III	
	Mihai Cosmin-Teodor	Experienced researcher	Scientific researcher (CS II)	
5	Stache Alexandru-Bogdan	Research assistant	Scientific research assistant	
	Moldovan Cristina	PhD student	PhD student	











Activities:

Year	Activity	Partner involved
	Stage I Synthesis and characterization of the precursors	"APOLLONIA" UNIVERSITY UNIVERSITY OF OSLO
2020	Task I.1 Synthesis and characterization of oligochitosan	UNIVERSITY OF OSLO
	Task I.2 Synthesis and characterization of synthetic copolymer	"APOLLONIA" UNIVERSITY











Year	Activity	Partner involved
	Stage II Design, synthesis and characterization of peptide-functionalized magnetic nanocarriers loaded with dexamethasone	"APOLLONIA" UNIVERSITY UNIVERSITY OF OSLO
	Task II.1 Functionalization of oligochitosan with the peptides	"APOLLONIA" UNIVERSITY UNIVERSITY OF OSLO
	Task II.2 Preparation of characterization of magnetic nanoparticles	"APOLLONIA" UNIVERSITY
2021	Task II.3 Preparation of peptide-functionalized magnetic nanocapsules loaded with dexamethasone	"APOLLONIA" UNIVERSITY UNIVERSITY OF OSLO
	Task II.4 Preparation of peptide-functionalized magnetic liposomes loaded with dexamethasone	"APOLLONIA" UNIVERSITY
	Task II.5 Physico-chemical characterization of peptide-functionalized NPs	"APOLLONIA" UNIVERSITY UNIVERSITY OF OSLO











Project management

Monitoring the progress of the project implementation according to the general description in the light of the following elements:

- (i) respecting the implementation of the scientific activities as described in the WP list;
- (ii) Budget allocation to each activity;
- (iii) Achievement of results;
- (iv) Achievement of objectives.

In case of deviations from the initial plan, the management plan will be adjusted by establishing and applying corrective actions.

Each team member will report to the project coordinator, regularly, the progress of the project. This will cover technical progress, results, deliverables and compliance with the Work Plan. Regular short meetings of project members in form of informal workshops will be organized. Each project member will be in charge with editing the scientific progress reports and sending to the project coordinator, which will prepare the final report corresponding to each project phase.

Photos taken during this workshop





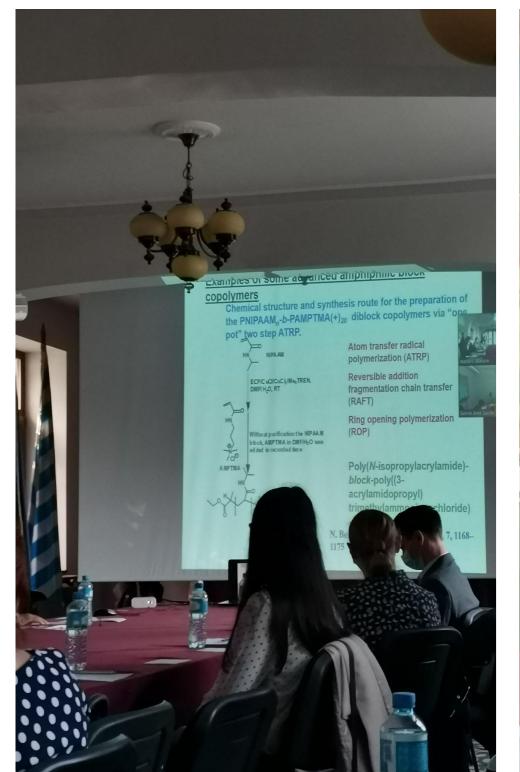
















































We want to thank to "APOLLONIA" University of lasi, especially to prof. univ. dr. Vasile BURLUI for the provided support

The planned research activities will be carried out with funding from the NO Grants 2014-2021, under Project contract no. 15/2020