

## Current running projects

- 2019 | Innovation with Glycans: new frontiers from synthesis to new biological targets** | COST CA 18103 | PI CS III Dr. bioing. *Gianina Dodi*
- 2019 | European Cholangiocarcinoma Network** | COST CA18122 | PI Prof.univ. dr. *Vasile Drug*
- 2019 | Polymeric based lidocaine nano-formulation for pain therapy** | World Bank Research Valorization Program | PI CS III Dr. bioing. *Gianina Dod*
- 2019 | Portable atmospheric pressure plasma device for surface processing** | World Bank Research Valorization Program | PI Șef. lucr. Dr. *Andrei Nastuta*
- 2019 | Innovative formulations for chronic wounds management** | World Bank Research Valorization Program | PI Prof.univ. dr. *Lenuta Profire*
- 2019 | Biocompatible composites based on biopolymers, calcium phosphates and SPIONs for bone tissue engineering** | World Bank Research Valorization Program | PI Prof. univ. dr. *Liliana Verestiuc*
- 2019 | Mecanisme patogenice si tratamentul personalizat in cancerul de pancreas utilizand tehnologii multi-omice** | PN-III-P1-1.2-PCCDI-2017-0797 | PI Prof. univ. Dr. *Viorel Scripcariu*
- 2019 | Evaluation of cold atmospheric plasma as an associative agent for the improvement of breast cancer chemotherapy effectiveness** | Grant intern UMF Iasi | PI CS III dr. *MIHAI Cosmin-Teodor*
- 2019 | Development of mass spectrometric and enzyme methods for the investigation of the molecular interaction between neurotoxic amyloid-beta peptide and six selected organic molecules** | Grant intern UMF Iasi | PI CS III dr. *ȘTEFĂNESCU Raluca*
- 2018 | Adipose tissue biomarkers in short-term remission of metabolic syndrome after bariatric surgery** | Grant intern UMF Iași - IDEI Echipe | PI Șef. lucr. dr. *Dimofte Daniel Vasile*
- 2018 | 18F FDG PET/MRI prognostic markers in cardiorenal syndrome (CRS)** | Grant intern UMF Iași - IDEI Echipe | PI Șef. lucr. dr. *Guțu Mihai*
- 2018 | Development and characterization of new nanosystems based on nonsteroidal antiinflammatory drugs and symptomatic slow acting drugs** | Grant intern UMF Iași - GRANTUL Tânărului Cercetător | PI Șef. lucr. dr. *Vasincu Ioana Mirela*
- 2018 | Development of new pioglitazone-curcumin loaded chitosan nanoparticles with potential application in type 2 diabetes mellitus therapy** | Grant intern UMF Iași - GRANTUL Tânărului Cercetător | PI Șef. lucr. dr. *Constantin Sandra Madalina*
- 2018 | Metoda avansată de diagnostic precoce prin imagistică în domeniul THz al neoplaziilor aflate în stadiul incipient** | Societatea Națională de Gaze Naturale ROMGAZ SA | PI Asist. Univ. Dr. *Alexa-Stratulat Teodora*
- 2018 | Dezvoltarea unui agent multifuncțional de tipul nanoparticulelor magnetice hibride radiomarcate pentru imagistică medicală duală (SPECT și MRI)** | PN-III-P1-1.1-PD-2016-1642 | CS III Dr. *Dodi Gianina*

- 2018 | Multidisciplinary approach for improving sexual health in female cancer survivors** | European Society of Contraception and Reproductive Health | PI Asist. Univ. Dr. Alexa-Stratulat Teodora
- 2018 | Efectul fragmentelor angiotensinice și a substanțelor ce intervin asupra sistemului renină-angiotensină asupra motilității musculaturii netede utero-tubare** | PI Drd. Barbu Roxana
- 2018 | Studii privind efectele farmacodinamice ale unor donori de oxid nitric** | PI Drd. Bucă Beatrice
- 2018 | Relaxarea endotelio-dependentă în teritoriul cutanat la șobolani. Acțiunea factorilor de creștere trombocitari asupra lamboului McFarlane modificat în cazul blocării sintezei de oxid nitric** | PI Drd. Caba Bogdan
- 2018 | Studii *in vivo*/*in vitro* a relaxării endotelio-dependente în teritoriul cutanat la șobolani. Corelații între oxidul nitric și factori de creștere plasmatici. Implicații în fiziologia lambourilor cutanate** | PI Drd. Caba Bogdan
- 2018 | Evaluarea experimentală a reducerii toxicității medicamentoase la nivel tisular utilizând metode *in vitro* de încapsulare** | PI Drd. Dragostin Ionuț
- 2018 | Cercetări experimentale privind influența administrării chimioterapicelor antibacteriene asupra mediatorilor inflamației, parametrilor apărării imune a organismului și asupra mecanismelor implicate în stressul oxidative** | PI drd. Dmour Rashad
- 2018 | Implicarea stressului oxidativ în patologia oftalmologică** | PI drd. Untu Razvan
- 2018 | Stabilirea limitelor de expunere bazate pe starea de sănătate pentru utilizarea la identificarea riscului pentru fabricarea medicamentelor diferite, unguente, creme, geluri pe același flux de fabricație** | Proiect nr. 324/05.02.2018 (contract de finanțare) | PI CS I. Dr. Bogdan Ionel Tamba.
- 2018 | SupraChem Lab – Laboratory of Supramolecular Chemistry for adaptive Delivery systems** | ERA Chair initiative, H2020- WIDESPREAD-2014-2015, Proiect no.667387, ICMPP Iași, 2015-2019 | PI CS I Dr. Pinteală Mariana
- 2018 | Terapii inteligente pentru boli non-comunicabile bazate pe eliberarea controlata de compusi farmacologici din celule încapsulate după manipulare genetică sau bionanoparticule vectorizate (INTERA)** | PN-III-P1-1.2-PCCDI-2017-0697, Beneficiar: Institutul de Biologie și Patologie Celulară „Nicolae Simionescu” București, 2018-2021 | PI Acad. Dr. Maya Simionescu
- 2018 | New diagnostic and therapeutic tools against multidrug resistant tumors** | COST European Cooperation in Science & Technology - Action CA17104, 01.10.2018-01.10.2022 | PI Asist. univ. dr. Teodora ALEXA-STRATULAT.
- 2017 | Nanoparticle-enabled Terahertz Molecular Imaging as Advanced Early-stage Diagnostic Method of Gastric Neoplasia** | PPN-III-P2-2.1-PED-2016-1598 | PI Prof. Univ. dr. Drug Vasile
- 2017 | Systemic and renal hemodynamic mechanisms in obesity-related kidney injury** | PN-III-P4-ID-PCE-2016-0126 | PI Prof. Univ. dr. Iliescu Radu
- 2017 | Noi formulari utilizate in tratamentul local al plăgilor cronice** | PN-III-P2-2.1-PED-2016-1807 | PI Prof. univ. dr. Profire Lenuța

## Past projects

- 2014** | Advanced research-development center in experimental medicine – CEMEX | 635/12.03.2014, cod SMISCSNR 48880
- 2012** | Chemo hyperthermal Delivery - Combined chemohyperthermal control of hepatic tumors, based on microwave-activated subendothelial-targeted magnetic nano-assemblies (CheTherDel) (2012 – 2014)
- 2011** | Development of biosensors by innovative technology of electrocoating the carbon structures with active polymers (CarBioSense) | MANUNET ERA NET nr. 7-038/13.05.2011
- 2010** | Advanced, CrossDisciplinary & Integrated Medical Imaging for all Europeans through a Network of Regional Clusters and Development Strategies | FP7 AMI4EUROPE
- 2008** | Experimental researches on local therapy of chronic inflammatory pain with analgesics released from hydrogel supports | CNCSIS 2561/2008,
- 2008** | Industry research contract | Fiterman Pharma, 43 / 12.05.2008
- 2008** | Studies regarding the optimization of analgesic efficiency of opioid peptides and peptidomimetics by coupling with transporting nanoparticles and by investigation of periferic nociception modulation | CNCSIS 1734/ 2008
- 2007** | Neurobiological research on the action of some trace elements in the modulation of nociception at central and peripheral level | CNCSIS TD cod 421/2007.
- 2006** | New nanostructured systems used for the controlled release of pharmacological agents | CEEEX nr. 108/09.10.2006
- 2006** | Pharmacological and clinical physical research platform on mechanisms of non-oncological and oncological pain | CNCSIS nr. 68/2006
- 2005** | Molecular, cellular and integrative mechanisms of pain. Clinical implications (MMD) | CEEEX nr 31/2005
- 2005** | New multifunctional nanoparticles based on mesoporous clay, with multidisciplinary applications (Nano-Agmam) | CEEEX nr 926/2005
- 2004** | Physio-pharmacological research on the influence of radical species and other pharmacological agents on nociceptive sensitivity and analgesia | VIASAN nr. 327/2004
- 2004** | Neurobiological research on the action of some pharmacological agents in the modulation of nociception at the specific receptor level | CNCSIS nr. 1227/2004
- 2003** | Alternative methods to work on laboratory animals | INTERNICHE 2003
- 2001** | Experimental research on the anti-inflammatory and analgesic action of the pharmacological product indomethacin ointment 4% after topical administration | UMF Iasi – SC Hyperion SA , 2001.
- 2000** | Development of a center for study and therapy of pain | CNCSIS nr. 40607 din 27.09.2000
- 1999** | Complex program for the implementation of algeziology in Romanian university and postgraduate education | CNFIS nr. 41896 / 4.11.1999

## PUBLICATIONS

### 2019

Luca A., Mihai C.-T., Stanciu G.-D., Bild V., Cojocaru E., Ancuceanu R., Harabagiu V., Peptu C., Peptu C.A., Leon-Constantin M.-M., Alexa-Stratulat T., Farmacia, 2019, 67(1):117-125, <https://doi.org/10.31925/farmacia.2019.1.16>,

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Luca A., Mihai C.-T., Stanciu G.-D., Bild V., Cojocaru E., Ancuceanu R., Harabagiu V., Peptu C., Peptu C.A., Leon-Constantin M.-M., Alexa-Stratulat T., Farmacia, 2019, 67(1):117-125, <https://doi.org/10.31925/farmacia.2019.1.16>

Cristian C.R., Thomas S., Vasile D., Stanciu G.-D., Alexa-Stratulat T., Luca A., Mihai C.-T., Tamba B.-I., Ciortescu I., EPE 2018 - Proceedings of the 2018 10th International Conference and Expositions on Electrical And Power Engineering, 2018, 8559855, 646-649, <https://doi.org/10.1109/ICEPE.2018.8559855>

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Stefanescu R., Lupu L., Manea M., Iacob R.E., Przybylski M., *Journal of Peptide Science* **2018** 24(1) UNSP e3047, <https://doi.org/10.1002/psc.3047>, IF(2017): 1,969.

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