Competitiveness Operational Programme 2014-2020
Priority Axis 1 – Research, technological development and innovation (RD&I) to support economic competitiveness and business development
Action 1.1.4 Attracting high-level personnel from abroad in order to enhance the RD capacity
Project title: Knowledge transfer in redox biology for developing advanced molecular tools in neurodegenerative diseases - focus on the signature of Nrf2 transcription factor in diagnosis and therapy (REDBRAIN)
Project ID: P37_732, SMIS code: 104294

Activity	Sub-activity	Quantified results
Activity 1 **Industrial research** Case-control study on Nrf2 signature in Alzheimer's disease (AD) and mild cognitive impairment (MCI)	**1.1 Sub-activity 1.1.** Design of the case-control study	1 case-control study design 7 preliminary Standard Operating Procedures
	1.2 Sub-activity 1.2. Case-control study on Nrf2 signature in AD and MCI	Biological samples 1 database with demografic, clinical and biological data of AD patients, MCI patients and controls 1 study report
	1.3 Sub-activity 1.3. Set-up of the study-specific biobank	1 case-control study-specific biobank 1 biological samples registry
	1.4 Sub-activity 1.4. Set-up of patients data repository	1 data repository of the cross-sectional study
	1.5 Sub-activity 1.5. Statistical processing of data and connection of data in redox networks	1 case-control study report 1 redox network in AD and MCI as compared to controls
Activity 2 **Industrial research** Proof-of-principle study on pharmacological modulation of Nrf2 signature in preclinical models of Alzheimer's disease	**2.1 Sub-activity 2.1.** Design of thepreclinical proof-of-principle study	1 report on the preclinical study design 6 preliminary Standard Operating Procedures
	2.2 Sub-activity 2.2. Selection of preclinical models relevant for Nrf2 signature in Alzheimer's disease	1 selected animal model of disease relevant for Nrf2 signature in AD
	2.3 Sub-activity 2.3. Preclinical proof-of-principle study based on pharmacological activation of Nrf2 in Alzheimer's disease	1 study report on the clinical status and behaviour of animals during experiments 1 study report on the dynamics of hematological and biochemical parameters of experimental animals
	2.4 Sub-activity 2.4. Set-up of the preclinical study biobank	1 precinical study- dedicated biobank 1 biological samples registry
	2.5 Sub-activity 2.5.	1 preclinical study database

Activity	Sub-activity	Quantified results
	Set-up of the preclinical study database	
	2.6 Sub-activity 2.6. Statistical processing of data and interpretation of results	1 network of altered redox and inflammation processes in experimental AD models 1 report on the impact of Nrf2 activators on AD onset and progression in experimental models of disease, in connection with changes elicited by the treatment at the level of Nrf2 signature
Activity 3 **Industrial research** Elaboration of final study-specific Standard Operating Procedures	**3.1 Sub-activity 3.1.** Elaboration of final study-specific Standard Operating Procedures	13 Standard Operating Procedures
Activity 4 **Industrial research** Implementation of redox biology tools at IVB	**4.1. Sub-activity 4.1.** Elaboration of training materials	5 powerpoint presentations on redox biology experimental tools 4 Standard Operating Procedures for particular redox biology experimental tools
	4.2. Sub-activity 4.2. On-line training	4 sessions of on-line training on redox biology concepts and investigational tools
	4.3. Sub-activity 4.3. On-site training	4 hands-on training sessions on experimental methods for investigating the redox status and the antioxidant resonse
	4.4 Sub-activity 4.4. Show-and-tell workshop	1 show-and-tell workshop 3 PowerPoint presentations Promotion materials:10 posters, 50 bags with brochure, USB, pens 15 feedback questionnaires
Activity 5 **Industrial research** Dissemination of results	Publication of results	At least 8 articles with original results out of which 3 articles will be published in collaboration with private companies 1 review article
	Communication of results	At least 12 communications at national and international meetings out of which 4 will be published in collaboration with private companies
	Elaboration and submission of the documentation for patenting original results obtained in the project	Documentation for 1 patent/1 panel of biomarkers submitted to the Romanian Office for Inventions and Trademarks and/or similar EU patent offices
	Joining of new European scientific networks/platforms in the field of the project	Membership to at least 1 European network in the field of the project
	Industry showcase	1 industry show case 50 invitations,3 PowerPoint presentations Promotion materials:10 posters, 1 banner, 50 bags with brochure, USB, pens

Activity	Sub-activity	Quantified results
		Specific agreements between relevant biopharmaceutical companies and IVB for collaborative RDI work
	Knowhow and technology transfer to private companies	1 documentation for knowhow and technology transfer
Activity 6 Information and publicity	**6.1 Sub-activity 6.1.** Information and publicity for the project	
	Set-up of the project-dedicated web page	1 project-dedicated web page
	Project's opening and closing conferences	2 conference programs; 100 invitations 10 posters, 2 banner1 and 1 roll-up for publicity; 80 bags containing a brochure, USB and pen, along with project promotion documents; 6 PowerPoint presentations; 50 feed-back questionnaires from participants
	Publication of project promotion articles	3 project promotion articles
Activity 7 Project management	**7.1 Sub-activity 7.1.** General coordination and monitoring of the project	4 internal progress reports
	7.2 Sub-activity 7.2. Detailed planning of work and responsibilities assignment	16 work plans
	7.3 Sub-activity 7.3. Alocation and management of resources	4 detailed plans correlating activities with financial, human and material resources
	7.4 Sub-activity 7.4. Procurement of material resources	8 procedures of aquisition and corresponding documentation (2 sessions per year estimated)
	7.5 Sub-activity 7.5. Management meetings	8 management meetings (2 per year) 8 management meetings reports
	7.6 Sub-activity 7.6. Scientific meetings of the team	8 scientific meetings (2 per year) 8 scientific meeting reports
	7.7 Sub-activity7.7. Work group meetings	48 meetings of the implementation team (monthly meetings) Meeting reports
	7.8 Sub-activity 7.8. Reporting	12 intermediary reports (at three months) 1 final report
		Final report
Activity 8 Intermediary and final audits for the project	**8.1 Sub-activity 8.1.** Preparation of the audit documentation	4 audit documentations
	8.2 Sub-activity 8.2. Audits	4 audit certificates and reports

Gantt diagram