

# Research projects funded through the UFT Science Fund



МИНИСТЕРСТВО  
НА ОБРАЗОВАНИЕТО  
И НАУКАТА



**2015**

**3/15-H**

**Improving the quality and composition of meat and meat products by using of *Rosa damascene* Mill extract**

Head of the research project: **Associate Professor Dessislav Balev, PhD**

**4/15-H**

**Development of combined methods for the fruits preservation with a high content of biologically active substances**

Head of the research project: **Professor Nikolay Penov, PhD**

**5/15-H**

**Cigarettes - global ecological pollutant with potential for recovery**

Head of the research project: **Associate Professor Dimitar Drachev, PhD**

**6/15-H**

**Preparation of polysaccharides and polyphenol extracts from waste materials of chamomile (*Matricaria chamomilla*) and marigold (*Caledula officinalis*)**

Head of the research project: **Associate Professor Anton Slavov, PhD**

**7/15-H**

**Encapsulation of biologically active substances and possibilities for use in dairy products**

Head of the research project: **Professor Radka Vlaseva, PhD**

**8/15-H**

**Preparation and characterization of protein isolates from rape meal for nutritional purposes**

Head of the research project: **Associate Professor Vessela Chalova-Zhekova, PhD**

**9/15-H**

**Innovative approaches for obtaining and analyzing the biological activity of fruit extracts of quinine (*Ziziphus jujube Rhamnaceae*)**

Head of the research project: **Professor Albert Krastanov, DSc**

**10/15-H**

**Quasi-resonance transmitter with active voltage limit for energy management of asynchronous machines**

Head of the research project: **Associate Professor Dimitar Spirov, PhD**

**11/15-H**

**Use of electrical technologies in organic and biochemical synthesis**

Head of the research project: **Associate Professor Ivan Maslinkov, PhD**

**12/15-H**

**Enrichment of fruit juices and plant extracts with polyphenols by ultrafiltration**

Head of the research project: **Associate Professor Maria Dushkova, PhD**

**13/15-H**

**Complex assessment of the quality, safety, authenticity and health of foods by combining electronic data, electronic tongue and other sensors**

Head of the research project: **Associate Professor Tanya Titova, PhD**

**14/15-H**

**Innovative strategy for smart specialization in food technology and management in the food and biotechnological industry in Bulgaria**

Head of the research project: **Associate Professor Valentina Aleksieva, PhD**

**15/15-H**

**An online-based study of consumer behavior of Bulgarian children and teenagers with regard to foods**

Head of the research project: **Professor Yordan Yordanov, PhD**

**16/15-H**

**Expanding the capacity of Laboratory Analytical Complex by creating a carbohydrate analysis platform**

Head of the research project: **Professor Atanas Pavlov, DSc - Corresponding Member of BAS**

## 2016

### **03/16-H**

**Expanding the capacity of a laboratory test complex by creating a protein analysis platform**

Head of the research project: **Assoc. Prof. Miroslava Kakalova, PhD**

### **05/16-H**

**Isolation, purification and characterization of lipase from *Rhizopus arrhizus***

Head of the research project: **Assoc. Prof. Boryana Zhekova, PhD**

### **06/16-H**

**Obtaining, characterization and possibilities for food application of bacteriocins and bacteriocin-like substances, synthesized by representatives of Bacillus genus**

Head of the research project: **Assoc. Prof. Dr. Denitsa Blajeva, PhD**

### **07/16-H**

**Intelligent methods for palynological study of Bulgarian bee products**

Head of the research project: **Prof. Diana Tsankova, PhD**

### **08/16-H**

**Technological approaches for preparing functional herbs on plant base with programmable qualities assoc.**

Head of the research project: **Prof. Maria Kaneva, PhD**

### **09/16-H**

**Technological studies on the application of polyols as substitutes in the composition of dessert creams of the type "Food without added sugar"**

Head of the research project: **Prof. Dimitar Hadjikinov, PhD**

### **10/16-H**

**Application of alternative processing methods for production and packaging of healthy foods and foods with programmable characteristics**

Head of the research project: **Prof. Stefan Stefanov, PhD**

### **11/16-H**

**Modeling and study of the processes of pneumatic transport of bottles in food industry**

Head of the research project: **Prof. Ventzislav Nenov, PhD**

### **12/16-H**

**Multisensory system for fruit nuts grading**

Head of the research project: **Assoc. Prof. Nikolay Shopov, PhD**

### **13/16-H**

**Virtual system for collecting, archiving, processing and visualizing the cost of energy (electricity, heating, natural gas and drinking water).**

Head of the research project: **Assoc. Prof. Borislav Milenkov, Ph.D.**

**14/16-H**

**Strength, modelling and optimization of glass packages for food fluids under high pressure**

Head of the research project: **Assoc. Prof. Kaloyan Angelov, PhD**

**15/16-H**

**Development of electro-energy measuring converter for mechatronic modules and systems in the food industry**

Head of the research project: **Assoc. Prof. Plamen Nikovski, PhD**

## 2017

### **01/17-H**

**Recovery and application of by-products obtained during lavender *Lavandula angustifolia* distillation**

Head of the research project: **Assoc. Prof. Anton Slavov, PhD**

### **02/17-H**

**Immobilization of lipase from *Aspergillus carbonarius* NRRL 369 on pearls of polyethylene terephthalate**

Head of the research project: **Assoc. Prof. Georgi Dobrev, PhD**

### **03/17-H**

**Study of the possibilities for utilization of soy milk production waste products for manufacturing of probiotic preparations**

Head of the research project: **Assoc. Prof. Alexander Slavchev, PhD**

### **04/17-H**

**Study of opportunities for enrichment of functional fermented milk with polyphenols**

Head of the research project: **Assoc. Kiril Mihalev, DSc.**

### **05/17-H**

**Improving the quality and composition of eggs and meat from guinea fowl (*Numida meleagris*) feed with natural functional supplements**

Head of the research project: **Assoc. Prof. Desislav Balev, PhD**

### **06/17-H**

**Creation of food supplements using by-products from processing of oil-based raw materials**

Head of the research project: **Prof. Mariana Perifanova-Nemska, PhD**

### **07/17-H**

**Study on structural and mechanical characteristics and stability of nutrient dispersion systems with locust bean (*Ceratonia siliqua* L.)**

Head of the research project: **Assoc. Prof. Ivanka Petrova, PhD**

### **08/17-H**

**Development of study of transistor reversed resonance transformer of electrical energy**

Head of the research project: **Assoc. Prof. Alexander Vuchev, PhD**

### **09/17-H**

**WEB-oriented system for control, analysis and management of the heat regimes in the canned foods production**

Head of the research project: **Assoc. Prof. Hristo Dinkov, PhD**

### **10/17-H**

**Construction and management of virtual ALUMI network in UHT-Plovdiv**

Head of the research project: **Chief Assis. Prof. Veneta Markovska, PhD**