



The Institute for Medical Research (IMR)

is a research institute established in 1946 with goal to provide a unique interface between basic and clinical science.

The Centre of Research Excellence in Nutrition and Metabolism (CIIN)

is part of IMR involved into fundamental and applied nutritional research in Serbia and region of West Balkan countries. The Centre is consist of food scientists, nutritional researchers, medical doctors, molecular biologists, pharmacists, biochemists and bioinformatics all of whom are active in basic and applied nutritional research, most advanced country's studies on nutrition, food and human health. Our research focuses on determining the nutrient requirements necessary to promote well-being for children and adults. Our scientists examine how nutrition plays a role in the prevention of the major diseases affecting modern man today and conditions associated with aging.



Basic Research:

The Centre of Research Excellence in Nutrition and Metabolism is dedicated to understanding why there are individual as well as epidemiological differences in nutrient requirements and metabolism. Using recent advances in nutritional science and molecular biology, the CIIN is using the synergistic approaches between basic biomedical sciences and clinical research and between clinical research and population health research with common goal of better understanding the nutrient role and action underlying obesity and diabetes.



Nutritional Tools:

Nutri-RecQuest, web based tool gives access to the existing current micronutrient recommendations published in Europe and in other key non-European countries, was developed in 2008-2010 by Wageningen University, The Netherlands and Institute of Medical Research. Access via www.eurreca.org

NUTPLAN- It is a user-friendly software programme with multiple functions: individual and group nutrition planning, recipe calculation, creating food labels, diet planning and nutrient intake assessment. The nutritional recommendations are accessible by a link to tool Nutri-RecQuest.

Web based tool for nutritional adequacy data collection and Web software tool for extraction of data

on nutritional adequacy and its determinants developed by IMR in 2008-2011

The **software Food Comp Data Management (FCDM)**, a web based application for the creation of a new national/regional Food Composition Data Base (FCDBs) was developed by the Institute for Medical Research in Belgrade in 2009-2011.



EU Research Projects:

Euro FIR - European Food Information Resource Network (NoE) FP6 (www.eurofir.net) 2006-10

EURRECA - Harmonizing nutrient recommendations across Europe with special focus on vulnerable groups and consumer understanding (NoE) FP6 (www.eurreca.org) 2007-2011

BaSeFood - Sustainable exploitation of bioactive components from the Black Sea Area traditional food, FP7 (www.basefood-fp7.eu) 2009-12

CHANCE - Low Cost technologies and traditional ingredients for the production of Affordable, Nutritionally correct, Convenient foods enhancing Health in population groups at risk of poverty, FP7 (www.chancefood.org) 2011-14

EuroFIR Nexus - The EuroFIR Food Platform: Further integration, refinement and exploitation for its long-term self-sustainability, FP7 (www.eurofir.net), 2011-13



National Research Projects: "Biological effects, nutritional intake and status of folate and polyunsaturated fatty acids: The improvement of nutrition in Serbia", 2011-2014



Bilateral Projects:

Serbia-Croatia: Folate status in populations at risk: young adult women of reproductive age and elderly, 2011-2013

Serbia-Portugal: Traditional fruit products: Nutritive content, bioactive components and biological effect to human health 2011-2013



Network – UNU/SCN NCDN CEE

UNU/SCN Network for Capacity development in Nutrition in CEE Countries (NCDN CEE), www.agrowebcee.net/ncdn/



Recent Publications:

- ✚ Danijela Ristic-Medic, Zlata Piskackova, Lee Hooper, Jiri Ruprich, Amelie Casgrain, Kate Ashton, Mirjana Pavlovic, Maria Glibetic. Methods of assessment of iodine status in humans: a systematic review. *AM J Clin Nutr* 2009; 89(suppl): 2070S-84S
- ✚ Tepsic J, Vucic V, Arsic A, Blazencic-Mladenovic V, Mazic S and Glibetic M. Plasma and erythrocyte phospholipid fatty acid profile in professional basketball and football players. *European Journal of Applied Physiology* 2009, 107: 359-365
- ✚ Tamara Popovic, Marija Ranic, Predrag Bulajic, Miroslav Milicevic, Aleksandra Arsic, Vesna Vucic and Marija Glibetic, Effects of fatty acids supplementation on plasma phospholipids fatty acids composition in patients in obstructive jaundice-a pilot study. *J.Clin. Biochem.Nutr* 2009, 45:370-375
- ✚ Vucic V, Glibetic M, Novakovic R, Ngo J, Ristic-Medic D, Tepsic J, Ranic M, Serra-Majem L, Gurinovic M. Dietary assessment methods used for low-income populations in food consumption surveys: a literature review. *British Journal of Nutrition*, 101, Suppl. 2, S95-S101, 2009
- ✚ Petrović-Oggianno G, Damjanov V, Vučić V, Debeljak-Martaćić J, Pavlović M, Glibetić M. Effects of three types of physical activity on reduction of metabolic parameters involved in cardiovascular risk. *Archives of Biological Sciences* 61 (3), 367-374, 2009
- ✚ Zorica Rašić-Milutinović, Gordana Peruničić-Peković, Danijela Ristić-Medić, Tamara Popović, Maria Glibetić and Dragan M. Djurić. Insulin resistance and chronic inflammation are associated with muscle wasting in end-stage renal disease patients on hemodialysis 28: 184-189, 2009
- ✚ Arsic A, Prekajski N, Vucic V, Tepsic J, Popovic T, Vrvic M and Glibetic M, Milk in human nutrition: comparison of fatty acid profiles, *Acta Veterinaria* 2009,59: 569-578
- ✚ Pavlovic M, Pepping F, Michal D, Biro L, Szabolcs P, Dimitrovska Z, Duleva V, Parvan C, Filipovic H.A, Glibetic M, Oshaug A . Turning Dilemmas into opportunities: A UNU/SCN Capacity Development Network in Public Nutrition in Central and Eastern Europe, *Public Health Nutrition* 2009; 12 (8) 1046-1051
- ✚ M Gurinovic, CM Witthoft, J Tepsic, M Ranic, PJM Hulshof, PC Hollman, J Porubska, A Gohar, J Debeljak-Martacic, G Petrovic-Oggianno, R Novakovic, M Glibetic and A Oshaug, Capacity development in food composition database management and nutritional research and education in Central and Eastern European, Middle Eastern and North African countries, *European Journal of Clinical Nutrition* (2010) 64, S134-S138
- ✚ Cvetković Z, Vučić V, Cvetković B, Petrović M, Ristić-Medić D, Tepšić J, Glibetić M. Abnormal fatty acid distribution of the serum phospholipids of patients with non-Hodgkin lymphoma. *Ann Hematol.* 2010
- ✚ Djekic-Ivankovic M Savikin Katarina P Zdunic Gordana M Debeljak-Martacic Jasmina Tepsic Jasna Popovic T Vucic Vesna Konic-Ristic Aleksandra Glibetic Marija The Effects of a New Plant Mixture on Lipid Levels in Patients with Metabolic Syndrome *ARCHIVES OF BIOLOGICAL SCIENCES*, (2010), vol. 62 br. 2, str. 403-405
- ✚ Maria Glibetic, Agnes Kadvan, Jasna Tepsic, Jasmina Debeljak Martacic, Marija Djekic-Ivankovic, Mirjana Gurinovic. Management of food composition database harmonized with EuroFIR criteria using a web application *Journal of Food Composition and Analysis*, Available online 18 November 2010
- ✚ Gurinović M, Kadvan A, Bucchini L, Matthys C, Torres D, Novaković R, Smith R and Glibetić M. EURRECA nutritional planning and dietary assessment software tool: NutPlan, *Eur J Clin Nutr* (2010) 64: S38-S42
- ✚ Aleksandra Konić-Ristić, Katarina Šavikin, Gordana Zdunić, Teodora Janković, Zorica Juranic, Nebojša Menković and Ivan Stanković, Biological activity and chemical composition of different berry juices, *Food Chemistry*, (2011), Volume 125, Issue 4, Pages 1412-1417



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**Centre of Research Excellence in
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www.srbnutrition.info

**To Health Through Nutritional Research
and Education!**

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