

**Student Research Group**  
**Nutrition & Metabolism for Pharmacy Students (NMP)**

**Teaching Staff:**

Coordonator: Associate Professor Amelia Tero-Vescan, PhD, MSc  
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**Students currently involved:**

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**Research Areas:**

- Determination of free fatty acids in human plasma by LC / MS method. Their involvement in cardiovascular disease
- Determination of caffeine and nicotine metabolites
- Determination of dietary supplements for athletes and weight loss composition
- Omega 3 fatty acids content of erythrocyte membranes. Determination of omega-3 index
- Determination of SOD, catalase activity and malondialdehyde in diabetic rats

**Research Infrastructure:**

HPLC with UV or MS detection, spectrophotometry in analyzing biological samples

**Articles in the Research Area:**

1. Imre S, Ormenişan A, **Tero-Vescan A**, Muntean DI, Vari CE - Hplc Enantioseparation Of B-Blockers On Ovomuroid Stationary Phase, *J Chromatogr Sci*, 2016, 54 (9): 1578-1583 - autor principal FI=1.320
2. Hancu G, Hilochie A, Vlad AR, Cârje A, **Tero-Vescan A**, Enantiomeric Separation of Sibutramine by Capillary Zone Electrophoresis, *J. Braz. Chem. Soc.*, 2016, Vol. 27, 6: 1116-1120, **FI (2015) = 1,096**, autor principal.
3. **Tero-Vescan A**, Vari CE, Imre S, Ősz BE, Filip C, Hancu G, *Comparative analysis by HPLC-UV and capillary electrophoresis of dietary supplements for weight loss*, *Farmacia*, ISSN: 2065-0019, 2016, Vol. 64, 5: 699-705, **FI (2015) = 1.162** – autor principal
4. **Tero-Vescan A**, Vancea S, Hutanu A, Borca-Balás R, Dobreanu M - Concordance And Controversy In Determining The Omega-3 Index In Plasma And Red Blood Cells Membrane, *Farmacia*, ISSN: 2065-0019, 2015, Vol. 63, 4: 504-509, **FI (2015) = 1.162**– autor principal

5. **Tero-Vescan A**, Vari CE, Muntean DL, Dogaru MT, Filip C, Imre S. *Determination of genistein in rat liver and kidney by a HPLC/UV method. Possible extrapolation from animals to humans*. Romanian Review of Laboratory Medicine 2014, nr 22(1): 119-128 DOI 10.2478/rllm-2014-0006, ISSN online: 2284-5623, **FI= 0.239** autor principal.
6. Vari CE, **Tero-Vescan A**, Dobru D, Copotoiu C, Roșca C, Dudaș T, Molnar C. *The effectiveness and safeness of terlipressin in patients with upper gastrointestinal bleeding*. Farmacia, 2014, Vol. 62, 3: 570-577, **FI (2014) = 1.005**
7. **Tero-Vescan A**, Vari CE, Vlase L, Alkaloid content of some potential isoflavonoids sources (native Genista species). Long-term safety implications, Farmacia, 2014, 62(6):1109-117, ISSN: 2065-0019, **FI (2014) = 1.005**– autor principal
8. Farkas SZ, Imre S, Muntean DL, **Tero-Vescan A**. *Analysis of drug related impurities by infrared spectrometry in the class of statins*. Farmacia 2013, 61(6): 1091-1101, ISSN: 2065-0019, **FI = 1.251**, autor principal.
9. Vari CE, **Tero-Vescan A**, Imre S, Muntean DL. *Therapeutic drug monitoring of cyclosporine in transplanted patients. Possibilities, controversy causes for failure*. Farmacia 2012, 60(5): 595-600, ISSN: 2065-0019, **FI(2012) = 0,578**, autor principal.
10. Vlase L, Popa DS, **Tero-Vescan A**, Olah N. *New Liquid Chromatography: Mass Spectrometry Assay for Natural Phytoestrogens from Vegetable Extracts*. Acta Chromatographica 2011, 23(3), 509–520 , DOI: 10.1556/ACHrom.23.2011.3.11, ISSN: 2083-5736, **FI=0,76**
11. **Tero-Vescan A**, Imre S, Vari CE, Oșan A, Dogaru MT, Csedő C. *Determination of some isoflavonoids and flavonoids from Genista tinctoria L by HPLC-UV*. Farmacia 2009, LVII(1):120-127 ISSN 0014-8237, **FI= 0,144**, autor principal.
12. Nagy E, Oșan A, **Tero-Vescan A**, Kovács I, Mátyás M. *Diagnostic relevance and correlations of soluble transferrin receptor in anaemia associated with chronic inflammatory diseases*. Revista Română de Medicină de Laborator 2009, 14(1):55-62, ISSN 1841-6624, fără factor de impact.

#### Research Studies presented by students at national scientific meetings:

- Denisa Podar\*, Amelia Tero-Vescan, Silvia Imre – Free total fatty acids versus polyunsaturated acids for cardiovascular disease diagnosis, CONGRESUL NAȚIONAL AL STUDENȚILOR FARMACIȘTI, Ediția a XIII-a, Universitatea de Medicină și Farmacie „Iuliu Hațieganu”, 1 – 5 aprilie 2015, Cluj – Napoca.
- Podar DM\*, **Tero-Vescan A**, Vancea S – LC MS/MS Method for fatty acids determination in red blood cell, International Congress for Students, Young Doctors and Pharmacists Marisiensis 30 martie-3 aprilie 2016, Acta Medica Marisiensis, vol 62, suplimentul 4, p93
- Filip C, **Tero-Vescan A**, Greblă OB\* - Evaluation of some urinary biochemical parameters modified through long-term vegetarian diet, Congresul Național de Farmacie, ediția a XVI-a, 2016, vol de rezumate p.331. ISSN 2537-2823
- Radoni R\*, **Tero-Vescan A** – The influence of restrictive diets on athletes performance, The 2<sup>nd</sup> National Conference of Sports Nutrition, 2-3 noiembrie 2016 Tirgu Mures, AMM, vol 62 suplimentul 7 2016, p 13.