

CURRICULUM VITAE

I. PERSONAL INFORMATION

First name and Surname: Paul Sebastian MUNTEAN

E-mail: muntean.paul@umft.ro

II. EDUCATION AND TRAINING

1. Consultant in Physical Medicine and Rehabilitation – 2024-to date
2. Certificate of complementary studies – Musculoskeletal ultrasound in medical rehabilitation – 2025
3. Ultrasound training course "Ultrasound measurement of subcutaneous adipose tissue, Level - Basic", July 15-17, 2025, International Association of Sciences in Medicine and Sports, Graz, Austria
4. Cycling coach accreditation certificate issued by UESCA (United Endurance Sports Coaching Academy), July 2024 – June 2028
5. Nutrition accreditation certificate for endurance athletes issued by UESCA (United Endurance Sports Coaching Academy), July 2024 – June 2028
6. PhD in Medicine - 2024
7. University
 - a. **Academic degrees**
 - Lecturer – 2025 – to date
 - Assistant Professor – 2021-2024
 - b. **Tutor activity:**
 - 2015-2018 - tutor student at the Department of Pathophysiology
 - 2013-2014 – tutor student at the Department of Clinical Abilities
 - c. **Volunteer activity:**
 - **2015** – participation as volunteer in the research activity of the Laboratory of Animal Physiology, Faculty of Science, Aristotle University of Thessaloniki, Greece, between 1-31 July 2015, under the supervision of Prof. Antigone Lazou
 - **2013-2014** – participation as volunteer within the study titled "*Evaluation of growth and development of preschool and school age children 2013-2014*" carried out by the Department of Genetics at our University in collaboration with the "Louis Țurcanu" Children Emergency Hospital of Timișoara, Romania
 - **2012** – participation as volunteer in the organization of the international scientific meeting "*Sudden Cardiac Death & Cardioprotection*" at the "Victor Babeș" University of Medicine and Pharmacy under the auspices of International Academy of Cardiovascular Sciences (IACS) held in Timișoara between 6-9 September 2012
 - d. **Summer schools:**
 - International:**
 - "*Telemedicine Summer School*", August 21-24, 2013, organized by the Faculty of Medicine at the University of Szeged, Hungary
 - National:**
 - Summer school "*Liver - From Function to Dysfunction*", July 14-19, 2014, organized by the Faculty of Medicine at the "Victor Babeș" University of Medicine and Pharmacy, Timișoara, Romania
 - Summer school "*Primary Clinical Abilities*" within the University project POSDRU 86/1.2/S/63815 - eMediqual, September 5-14, 2013, Timișoara, Romania

e. International mobility

- IFMSA fellowship in the Department of Forensic Medicine and Toxicology, Aristotle University of Thessaloniki, Greece, between 1-31 July 2015

f. Educational Projects

- **Pilot Module of Integrated Curriculum:** "*Biosignals - clinical applications*" within the University project POSDRU 86/1.2/S/63815 - eMediqual, April 5 - 27, 2013, Timișoara, Romania
- **Demonstrative lecture** "*Human Body: From Galen Anatomic Studies to Modern Imaging Techniques*" organized within the closing conference of the POSDRU project 86/1.2/S/63815 - eMediqual, 21.11.2013, Timișoara, Romania

8. High School

- 2008 – 2012, High School of Telecommunications, Timișoara

III. PARTICIPATION IN SCIENTIFIC MEETINGS

- Medical symposium - "*A new era in orthopedics, robotics, AI, and human expertise*", September 11, 2025, Timișoara, Romania
- The National Congress of Physical Medicine, Rehabilitation, and Balneology with international participation, September 1-5, 2023, Timișoara, Romania
- The Conference of the ARIE project (An EU-level collaborative partnership for an active lifestyle to promote adherence to HIV therapy and fitness as therapy), November 16, 2022, Timișoara, Romania
- The 45th Annual National Congress of Physical Medicine and Rehabilitation – Anniversary Congress – 100 years since the founding of the Association, October 13-15, 2022, Bucharest, Romania
- The 8th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS-ES), September 28-October 1, 2022, Szeged, Hungary
- The 44th National Congress Of Medical Rehabilitation, September 23-25, 2021, Poiana Brașov, Romania
- National Online Conference of Biophysics - CNB 2020, June 14-16, 2020, Brașov, Romania
- Workshop "*Psoriatic arthritis - multilevel disease*", March 22, 2019, Timișoara, Romania
- National Conference "*Holistic approach of the rheumatic patient*", May 24-25, 2019, Timișoara, Romania
- Timișoara Medical Education Days workshop - "*How to write and publish a scientific paper*", March 6, 2019, Timișoara, Romania
- "*Cardiovascular Congress of Rehabilitation and Prevention in Pecs, Interdisciplinary Vascular Conference in Pecs, European Section Meeting of IACS (International Academy of Cardiovascular Sciences)*", September 28-30, 2017, Pecs, Hungary
- National Congress with international participation "*Cardiocare*", May 6-7, 2016, Timișoara, Romania
- Conference "*Vaccination: safe or not?*", March 21, 2016, Timișoara, Romania
- The XIXth International Congress for Medical Students and Young Doctors "*Medis Timișoara 2016*", March 3-6, 2016, Timișoara, Romania
- First Edition of the "*Malpraxis*" Conference, November 19-20, 2015, Timișoara, Romania
- "*Sleep Medicine: from dream to reality*", November 11, 2015, Timișoara, Romania
- "*Anxious and Depressive Pathology*", October 30, 2015, Timișoara, Romania
- Advanced Research Workshop "*Translational research in mitochondria disease*", October 16, 2015, Timișoara, Romania
- "*National Course of Guidelines and Protocols in Anesthesia, Intensive Care and Emergency Medicine*", October 8-10, 2015, Timișoara, Romania
- "*Timișoara Medical Education Days*" Conference, April 15-17, 2015, Timișoara, Romania
- Conference "*Tuberculosis in the XXIst Century*" - SCOPH Department, March 24, 2015
- Conference "*Prevention in chronic kidney disease*" - SCOPH Department, March 12, 2015
- The 53rd National Congress of Cardiology, October 2-4, 2014, Sinaia, Romania
- "*Timișoara Medical Education Days*" Conference, March 24- 26, 2014, Timișoara, Romania
- Conference & Advanced Research Workshop "*Sudden Cardiac Death & Cardioprotection*", September 6-9, 2012, Timișoara, Romania
- "Post Covid-19 Pulmonary Rehabilitation", April 19-23, 2021, U.M.F. "Grigore T. Popa", Iași, Romania

- "Current complexity of fibromyalgia management", November 6-15, 2019, U.M.F. "Victor Babeș" Timișoara, Romania

IV. PARTICIPATION IN POSTGRADUATE LECTURES

- **lecturer** – Postgraduate lecture “*An Interdisciplinary Approach to Spinal Pathology*”, May 11-22, 2026, Victor Babeș University of Medicine and Pharmacy, Timișoara, România
- **lecturer** – Postgraduate lecture “*Aspects of Pathophysiology, Diagnosis, Treatment, and Interdisciplinary Collaboration*”, March 16-31, 2026, Victor Babeș University of Medicine and Pharmacy, Timișoara, România
- Practical introductory course in cardiopulmonary exercise testing and its derivative applications, October 16, 2025, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Pediatric rehabilitation in genetic diseases, May 8-9, 2025, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Medical rehabilitation in children with cerebral palsy, May 16-17, 2024, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Clinical correlations: musculoskeletal ultrasound – nuclear magnetic resonance in musculoskeletal pathology, October 26-28, 2023, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Recovery from peripheral nerve injuries in children, June 8-9, 2023, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Post-fracture recovery of limbs in children, adults, and athletes, April 6-8, 2022, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
- Post-Covid-19 pulmonary rehabilitation, April 19-23, 2021, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania
- The current complex approach to fibromyalgia, November 6-15, 2019, Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania

V. PERSONAL SKILLS

- **Foreign languages:** **English** – advanced, **German** – medium, **French** – beginner
- **Computer skills:** PC - software: Microsoft Word, Power-Point, Excel, Adobe Photoshop
- **Driving license:** category B
- **Cross-country mountain biking (several prizes in national competitions):**
 - National champion - National Gravel Championship (Master 1 Men's category), 2026 season, Sibiu, Sibiu County
 - National champion - National Cyclocross Championship (Master 1 Men's category), 2025-2026 season, Florești, Prahova County
 - National champion - 2025 National Olympic Cross-Country MTB Championship (Master 1 Men's category), 2025 season, Păltiniș, Sibiu County
 - National champion - National MTB Marathon Championship (Master 1 Men's category), 2025 season, Pucioasa, Dâmbovița County
 - National champion - National Cyclocross Championship (Master 1 Men's category), 2024-2025 season, Florești, Prahova County
 - 3rd place in the 2024 National Olympic Cross-Country MTB Championship (Master 1 Men's category), Cheile-Grădiștei, Fundata, Brașov County
 - National champion - National Cyclocross Championship (Master 1 Men's category), 2023-2024 season, Porumbacu de Sus, Sibiu County
 - 3rd place in the 2023 National MTB Marathon Championship (Amateur Men's category), Blăjel, Sibiu County
 - 3rd place in the 2023 Olympic MTB Cross-Country National Championship (Men's Amateur category), Păltiniș, Sibiu County
 - 2nd place in the 2022 Olympic MTB Cross-Country National Championship (Men's Amateur category), Cluj-Napoca, Cluj County

- Winner of the Men's Amateur category at the 2022 National Cyclocross Cup
- Winner of the Men's Amateur category at the 2017 National Cyclocross Cup

Timișoara, 07.09.2026

Paul S. MUNTEAN

LIST OF PUBLICATIONS

1. **Muntean, P.S.**, Onofrei, R.R., Amăricăi, E.C. **Current Perspectives on Vitamin D Deficiency in Athletes**. In: Dhalla, N.S., Tappia, P.S., Elimban, V. (eds) *Functional Biochemistry of Micronutrients. Advances in Biochemistry in Health and Disease 2026*, vol 35. pg. 315-353 Springer, Cham. https://doi.org/10.1007/978-3-032-14441-6_13
2. Rațiu S., Sturza A., **Muntean P.S.**, Bratu T., Muntean D. **Monoamine oxidases are mediators of oxidative stress in human varicose Veins: interactions with obesity, inflammation, and angiotensin II**. *Molecular and Cellular Biochemistry* 2025, 481(1):297-306, <https://doi.org/10.1007/s11010-025-05398-6>
3. **Muntean P.**, Miclos-Balica M., Macavei G.A., Munteanu O., Neagu A., Neagu M. **Anthropometric formulas repurposed to predict body fat content from ultrasound measurements of subcutaneous fat thickness**. *Symmetry* 2024, 16(8), 962, <https://doi.org/10.3390/sym16080962>
4. **Muntean P.**, Popa A., Micloș-Balica M., Schick F., Munteanu O., Pupăzan V., Neagu A., Neagu M. **Learning Effects in Air Displacement Plethysmography**. *Life* 2023, 13, 1315, <https://doi.org/10.3390/life13061315>
5. **Muntean P.**, Neagu M., Amăricăi E., Hărăguș H.G., Onofrei R.R., Neagu A. **Using A-Mode Ultrasound to Assess the Body Composition of Soccer Players: A Comparative Study of Prediction Formulas**. *Diagnostics* 2023, 13(4), 690, <https://doi.org/10.3390/diagnostics13040690>
6. **Muntean P.S.**, Codreanu A.M., Radvanski V.I., Dușe A.O., Dinu A.R., Drăgoi R.G. **The Therapeutic Effects On Pain And Mobility Of The Super Inductive System In Patients With Low Back Pain: A Pilot Study**. *AI 45-Lea Congres Național Anual De Reabilitare Medicală*, 13-15 Octombrie, 2022, București, România, Volum de Rezumate 2022:p64, ISSN 2457-9785, ISSN-L 2457-978
7. Găborean T., Isacov I., Codreanu A.M., Vătăman A.A., **Muntean P.S.**, Dinu A.R., Drăgoi M., Drăgoi R.G., Dușe A.O. **Assessment Of The Risk Of Falling In Patients With Osteoporosis And A Previous Hip Fracture**. *AI 45-Lea Congres Național Anual De Reabilitare Medicală*, 13-15 Octombrie, 2022, București, România, Volum de Rezumate 2022:p109, ISSN 2457-9785, ISSN-L 2457-978
8. Dinu A.R., Drăgoi R.G., Codreanu A.M., **Muntean P.S.**, Buhai G., Vătăman A., Săndesc M.A. **Recovery And Integration Into Society Of Children With Down Syndrome Through Physiotherapy Programs And Their Participation In Sports Competitions**. *AI 45-Lea Congres Național Anual De Reabilitare Medicală*, 13-15 Octombrie, 2022, București, România, Volum de Rezumate 2022:p119, ISSN 2457-9785, ISSN-L 2457-978
9. **Muntean P.**, Mozoș I., Neagu A. **Pulse Wave Analysis In Amateur Cyclists: Why We Should First Bike (And Then Eat All The S'mores)**. 8th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS); September 28 – October 1, 2022; Szeged, Hungary, Abstract Book 2022:p92, ISBN: 978-963-306-879-3
10. Horhat R., Micloș-Balica M., **Muntean P.**, Popa S., Sima I., Glisici B., Cîrja O., Neagu A., Neagu M. **The impact of subject positioning on body composition assessments by air displacement plethysmography evaluated in a heterogeneous sample**. *Plos One Journal*, 2022: 17(4): e0267089. <https://doi.org/10.1371/journal.pone.0267089>
11. **Muntean P.**, Micloș-Balica M., Popa A., Neagu A., Neagu M. **Reliability of Repeated Trials Protocols for Body Composition Assessment by Air Displacement Plethysmography**. *International Journal of Environmental Research and Public Health*, 2021:18(20), 10693; doi.org/10.3390/ijerph182010693
12. Micloș-Balica M., **Muntean P.**, Schick F., Hărăguș H., Glisici B., Pupăzan V., Neagu A., Neagu M. **Reliability of body composition assessment using A-mode ultrasound in a heterogeneous sample**. *European Journal of Clinical Nutrition*, 2021;75:438–445
13. **Muntean P.S.**, Micloș-Balica M., Popa A., Pupăzan V., Neagu A., Neagu M. **The Reliability of Repeated Measures Protocols in Air Displacement Plethysmography: a Comparative Study**. *National Online Conference of Biophysics "CNB 2020"*, 14-16 June, 2020, Brașov, România. *Book of Abstracts 2020*:p87, ISBN 978-606-19-1258-2
14. Micloș-Balica M., **Muntean P.S.**, Petraș A., Daoud A., Popa S., Sima I., Glisici B., Cîrja O., Schick F., Neagu A., Munteanu O., Pupăzan V., Neagu M. **Using Ultrasound to Assess Normal Weight Obesity**. *National Online Conference of Biophysics "CNB 2020"*, 14-16 June, 2020, Brașov, România. *Book of Abstracts 2020*:p30, ISBN 978-606-19-1258-2
15. **Muntean P.S.**, Micloș-Balica M., Pupăzan V., Neagu M., Drăgoi R.G., Dinu A.R., Drăgoi M., Neagu A. **A comparison of body composition assessment by air displacement plethysmography and ultrasound in athletes**. *AI 42-lea Congres Național Anual de Reabilitare Medicală cu Participare Internațională*, 2-5 octombrie, 2019, Cluj, România, **Volum de Rezumate 2019**:p52, ISSN 2457-9785, ISSN-L 2457-978
16. Dinu A.R., Drăgoi M., Dușe A.O., Săndesc M.A., Petraș A., **Muntean P.S.**, Drăgoi R.G. **The Impact of Foot Distorsions on Balance and Walking**. *AI 42-lea Congres Național Anual de Reabilitare Medicală cu Participare Internațională*, 2-5 octombrie, 2019, Cluj, România, **Volum de Rezumate 2019**:p57, ISSN 2457-9785, ISSN-L 2457-978
17. **Muntean P.S.**, Micloș-Balica M., Pupăzan V., Neagu M., Neagu A. **Body fat assessment by air displacement plethysmography and abdominal ultrasound: correlations with the body mass index**. *The 6th Meeting of European Section and the 7th Meeting of North American Section of International Academy of Cardiovascular Sciences (IACS)*, September 11-14, 2019, Vrnjacka Banja, Serbia, **Abstract Book 2019**:p207, ISBN 978-86-7760-136-2
18. **Muntean P.S.**, Micloș-Balica M., Pupăzan V., Neagu M., Neagu A. **The role of air displacement plethysmography and abdominal ultrasound in assessing body fat: a pilot study of correlation with body mass index**. *The 11th National Conference with International Participation of the Romanian Society of Pathophysiology*, September 4-7, 2019, Târgu-Mureș, România, **Acta Medica Marisiensis** 2019: 65(7):p12, p- ISSN 2068-3324, e-ISSN 2247-6113

19. **Muntean P.**, Petraş A., Popa S., Sima I., Glisici B., Cirja O., Schick F., Neagu A., Munteanu O., Pupăzan V., Neagu M. ***Evaluation of systematic errors caused by pulmonary and cutaneous evaporation in body composition assessments by repeated measures protocols of air displacement plethysmography.*** The National Conference of Biophysics, September 7-10, 2018, Bucureşti, România - *lucrare premiată cu Premiul I pentru cel mai bun articol publicat în "Romanian Journal of Biophysics"*
20. Ionică L., **Muntean P.**, Duicu O., Sturza A. ***Methylene blue alleviates endothelial dysfunction in experimental diabetes.*** The XXth International Congress for Medical Students and Young Doctors MEDIS, March 16-19, 2017, Timişoara, Romania, **MEDIS Timişoara Abstracts's Journal nr. IX 2017**;P.9:92, ISSN 1843-9128
21. Văduva, A., **Muntean, P.**, Sturza, A., Dema, A. ***Design of a custom algorithm for image analysis of vascular preparations stained with dihydroethidium.*** Conference of the Romanian Society of Pathophysiology, September 7-9, 2017, Cluj-Napoca, Romania, **Clujul Medical**: 90(5):S73, p-ISSN 1222-2119, e-ISSN 2066-8872 - *lucrare premiată cu Premiul I la secţiunea prezentări Postere*
22. **Muntean P.S.**, Crişan T.S., Văduva A., Duicu O., Mornoş. C. ***Assessment of oxidative stress by confocal microscopy in human atrial samples from coronary patients with and without diabetes.*** The XIXth International Congress for Medical Students and Young Doctors MEDIS, March 3-6, 2016, Timişoara, Romania, **MEDIS Timişoara Abstracts's Journal nr. VIII 2016**;P.S.3:66, ISSN 1843-9128
23. **Muntean P.S.**, Tiugan A.D., Popescu A., Văduva A., Dema A. ***Standardization of the dihydroethidium staining technique for the detection of reactive oxygen species.*** Congresul Naţional al Societăţii Române de Fiziopatologie „O abordare integrativă în educaţie şi cercetare”, 7-10 mai, 2015, Iaşi, Romania, Volum rezumate, p.201-202, Ed. „Gr.T.Popa, Iaşi, ISBN 978-606-544-311-2 - *lucrare premiată cu Premiul I la secţiunea Postere ale studenţilor*
24. **Muntean P.S.**, Marian L., Micu-Şerbu B., Gafencu M. ***Medical students as partners for young people in fighting addiction to psychoactive substances*** – poster prezentat la "Timişoara Medical Education Days" Conference, April 15-17, 2015, Timişoara, Romania
25. **Muntean P.S.**, Miloicov V.B., Cobzariu I.F. ***Cardiopulmonary resuscitation - clinical skills*** – poster prezentat la "Timişoara Medical Education Days" Conference, March 24-26, 2014, Timişoara, Romania