UNIWERSYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

APPLY FOR MARIE SKŁODOWSKA-CURIE POSTDOCTORAL FELLOWSHIP 2021 WITH WROCLAW MEDICAL UNIVERSITY

Wroclaw Medical University is looking for candidates for the MSCA Fellowships 2021, which are due to become available as part of the Horizon Europe Programme. At this stage, we invite experienced researchers with a PhD, who are willing to come to Poland for 2 years, to send us an expression of interest. As soon as the details of the call are announced, we will begin a collaboration with you to draft a winning proposal.

Wroclaw Medical University conducts scientific and research activity in the field of medical and health sciences. It is a university with a 70-year tradition, educating at four faculties (Medicine, Dentistry, Pharmacy and Health Sciences) 6,000 students, 400 doctoral students, carrying out about 500 research projects a year. In 2020, the University took the 2nd place in the ranking in terms of publications, among all national public universities. Also Wroclaw Medical University in 2019 achieved an impressive promotion to the range of 151-200 universities in the world (the best result among Polish medical universities) in the field of clinical medicine on the Shanghai List. The clinicaltrials.gov database shows that in the years 2014-2019 employees of the University (> 1000 researchers) were involved in over 420 commercial and non-commercial clinical trials.

Name of supervisor :	Zygmunt Domagała
Topic of the project/ proposal of topic:	Ultrasound anatomy of the vocal folds in health and in disease
Short description of the project:	As a result of improvements in ultrasound image quality, it has become possible to assess structures that were previously impossible to visualise. The larynx is such an organ. The anatomy of the larynx is known and standard examination techniques are known. The authors of the project wonder whether it is possible to perform ultrasound analysis of the vocal folds in order to use this device for screening of the larynx in people at increased risk of cancer of this organ. The first step of the project is to define a normogram of vocal fold function in both sexes observed in vivo by ultrasonography

	using Doppler techniques. So far, no normograms for a healthy population have been defined on a sufficiently large group of volunteers. The first stage of the study would be to carry out such an evaluation. The next stage would be to examine a group at increased risk of laryngeal cancer. It is worth emphasising that as a result of ageing of the larynx, the usefulness of this method is limited in men. In men, laryngeal calcification occurs. In women this process is much slower and gives a chance for the success of the project The project is broken down into several milestones. If any milestone fails, it will be possible to complete it earlier. Stage 1 - Assessment of available literature and definition of minimum hardware requirements Phase 2 - conducting a pilot project based on 50 representatives of both sexes Stage 3 - evaluating the results of the pilot project, planning a full project to determine the norm of vocal fold vibration in young healthy adults assessed with a Doppler effect ultrasound head Step 4 - creation of a normogram based on statistical analysis Stage 5 - conducting a pilot project on a group of 50 people at high risk of developing laryngeal cancer Stage 6 - planning a large research project and its implementation Step 7 - final statistical analysis and completion of the project If all stages of the project are carried out it is planned to prepare 2-3 scientific publications. They will be the project settlement The project can be conducted in the Ultrasonography Unit in Normal Anatomy Department of Wroclaw Medical University (the head dr Zygmunt Domagala).

Offer requirement:	We are looking for scientists interested in scientific development in morphological sciences or and interested in ultrasound anatomy. Minimum requirements: doctor or representative of medical sciences Good to know: knowledge of basic ultrasonography
Optional qualifications:	-
Contact **E-mail:** **Tel. No:**	Dr Zygmunt Domagała Division of Anatomy, Ultrasound anatomy lab, Wrocław Medical University zygmunt.domagala@umed.wroc.pl +48717841331 or +48717840079

How to apply:
Send your expression of interest along with your CV to:
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If you have any questions, please contact the programme coordinator at:
maria.wolkowinska@umed.wroc.pl

For more information about the University please visit the website:
https://www.en.umed.wroc.pl/about/