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the European Union

Name: Elisabetta Indelicato

Project title: A Multiomics Approach to unsolved Rare Movement Disorders

Duration	6 months (May-October 2023)
Short Bio	<p>After completing my medical training in Rome, Italy, I was awarded with a postgraduate bursary that allowed me to visit the Department of Neurology of Innsbruck as a research fellow. During my stay I joined the research group on Rare Movement Disorders (Head: Dr. Sylvia Boesch) and I completed a clinical PhD with focus on inherited ataxias. Subsequently, I moved on to the residency in neurology at the same institution. Along this path, I seized the opportunity to join the European Reference Network for Rare Neurological Diseases (ERN-RND) when our center became a full member. Within the ERN-RND exchange programs, I completed two fellowships at European reference centers for neurogenetics: Besta Institute in Milan and the Institute of Human Genetics at the Technical University of Munich.</p> <p>Currently, I serve as a coordinator of the Ataxia/HSP DG of the ERN-RND and the neurogenetics panel of the European Academy of Neurology. Additionally, I am an active member of the Ataxia Study Group of the Movement Disorders Society, as well as several other international initiatives focusing on Rare Movement Disorders</p>
Home Institution	Center for Rare Movement Disorders, Department of Neurology, Medical University of Innsbruck
Host Institution	Institute of Human Genetics, Technical University of Munich
Project Description	<p>Within the present project, we aimed to unravel the etiology of a growing cohort of rare movement disorders collected at multiple tertiary referral centers in Europe which remained “unsolved” despite extensive clinical characterization and whole exome sequencing. To this purpose, I applied a multimodal approach including 1) whole genome sequencing as well as 2) transcriptomics and 3) proteomics techniques in patient-derived cells.</p>
Personal Statement	<p>The present fellowship allowed me to expand my clinical background with skills from the field of genetics and translational research, which I would have not acquire otherwise in my home institution. The acquired expertise will boost my career as researcher in neurogenetics and support a future leadership within the Innsbruck center as well as my role as an active member of the ERN-RND.</p>