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I graduated in Biology from the University of Pavel Jozef Šafárik in my hometown of Košice, Slovakia. I received my PhD degree based on my study of the role of the TEL-AML1 fusion gene in patients with acute lymphoblastic leukemia at the Second Faculty of Medicine, Charles University. Afterwards I held a postdoc position at the University of Colorado, Denver, USA, where I spent two years working on transcription regulation and signaling of homeodomain genes in leukemia model. After my return to Prague I joined the CLIP working group (a leading laboratory of diagnostics and research on childhood leukemia in Czech Republic with international recognition) and became a principal investigator focusing on epigenetic regulation in leukemia and resistant disease. Eventually, my interests became more focused on response to therapy and on resistant disease, factoring in the role of cancer metabolism. Recently I became a leader of leukemia metabolic studies at CLIP, working on elucidating the impact of cancer metabolism in the origin, progression and relapse of childhood leukemia as well as the role of metabolic plasticity in therapy response.