



Supported by a grant from HTRS



HTRS 2022 Mid-Career Research Award Recipient



Lacramioara Ivanciu, PhD

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Project Title: "Regulation and modulation of intrinsic Xase function *in vivo*"

Dr. Ivanciu is a basic research scientist with expertise in hemostasis, thrombosis, and hemophilia fields. Her research is focused on better understanding how coagulation factors contribute to clot formation *in vivo*. These efforts, which employ a range of approaches, will not only contribute to a fundamental understanding of hemostasis, but may also expand our clinical understanding of bleeding and thrombosis and provide opportunities for therapeutic development. The goal of this HTRS Mid-Career Research Award project is to identify the site of intrinsic Xase complex (FIXa/FVIIIa) assembly at the site of vascular injury and to examine how eliminating FVIII-vWF binding impacts Xase assembly and function *in vivo*.

A further goal is to study the physiological relevance of two FIX proteolytic cleavage steps *in vivo*. Work from this proposal will answer critical questions about the regulation of the intrinsic Xase at the site of vascular injury and it may also provide a framework for developing new strategies aimed at engineering coagulation factor derivatives with novel therapeutic properties for hemophilia.