



Name: Sarah Shalaby

**Original project title:** Portal and systemic inflammatory and endothelial dysfunction patterns in patients with portosynusoidal vascular disorder

Which was changed into: Circulating microvescicles as disease specific biomarkers and predictors of portal vein thrombosis in patients with porto-sinusoidal vascular disorder

Duration	6 months (01/03/2023-31/08/2023)
Short Bio	I am a specialist in Gastroenterology and Hepatology. After earning a
	first degree in Health Biotechnologies, I transitioned to Medicine and
	completed an internship Multivisceral Transplant Unit and a
	specialization in Gastroenterology at the University of Padua, where I
	focused on the study of endothelial damage of the portal vein in
	cirrhosis. Currently, I am advancing my PhD on hepatocellular
	carcinoma's impact on portal vein thrombosis and enhancing my skills
	as a Fellow at the Hepatic Hemodynamics Laboratory of the Hospital
	Clínic of Barcelona, specializing in interventional hepatology and
	contributing to research in portal hypertension, portal vein thrombosis
Hama Institution	and vascular liver diseases.
Home Institution Host Institution	Padua University-Hospital
Project	Hospital Clínic of Barcelona  Porto-sinusoidal vascular disorder (PSVD) is a rare liver disease
Description	characterized by damage to small portal vein branches, potentially
Description	causing portal hypertension (PHT) and portal vein thrombosis (PVT).
	Its diagnosis is complex, relying on excluding other causes of PHT
	and is not fully understood. The study focuses on large extracellular
	vesicles (IEV), which are produced in response to cellular damage and
	play roles in inflammation, coagulation, and disease progression.
	These IEVs are hypothesized to be key in understanding PSVD, as
	they could provide insights into the disease's pathophysiology and
	might be markers of vascular dysfunction. This research aims to
	investigate the unique IEV profiles in PSVD patients' blood and the
	portal system, which could reveal underlying disease mechanisms and
	identify patients at risk of developing PVT.
Personal	This Fellowship provided me specialized training in rare liver vascular
Statement	diseases and advanced techniques like hepatic venous pressure
	gradient measurement, transjugular liver biopsies and Transjugular
	Intrahepatic Portosystemic Shunts (TIPS) creation, under the
	mentorship of experts like Professor García-Pagán and his high-level
	team. This experience enhanced my clinical and research skills,
	culminating in the in the filing of two patents and the award of a
	national research bursary which will allow me to extend further the
	fellowship. Additionally, we successfully secured a collaborative grant
	which will facilitate a three-year partnership between my home
	institution and the host institution, focusing on the study of
	portosinusoidal vascular disorder.

