

1. Record Nr.	UNINA9910576868403321
Autore	Patricio Sánchez Arciniegas Jorge
Titolo	A Multiscale In Silico Study to Characterize the Atrial Electrical Activity of Patients With Atrial Fibrillation : A Translational Study to Guide Ablation Therapy
Pubbl/distr/stampa	Karlsruhe, : KIT Scientific Publishing, 2022
Descrizione fisica	1 online resource (162 p.)
Collana	Karlsruhe transactions on biomedical engineering
Soggetti	Electrical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The atrial substrate undergoes electrical and structural remodeling during atrial fibrillation. Detailed multiscale models were used to study the effect of structural remodeling induced at the cellular and tissue levels. Simulated electrograms were used to train a machine-learning algorithm to characterize the substrate. Also, wave propagation direction was tracked from unannotated electrograms. In conclusion, in silico experiments provide insight into electrograms' information of the substrate.