

LERU STudent REseArch Mobility Programme (STREAM)
Project proposal



Host University:
Università degli studi di Milano



Field:
Medicine

Specified field, subject:
Fetal physiology

Research project title:
Phase rectified signal averaging of Transabdominal fetal ECG a novel technique for fetal autonomic nervous system analysis



Possible starting month(s):

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
				x	x						

Possible duration in months:

1	2	3	4	5	6
					x

Suitable for students in: 2nd cycle (Master students)

Prerequisites: Appropriate background in heart rate control and autonomic function. Appropriate statistical background. Basic knowledge of fetal physiology

Restrictions: none

Description:

Fetal ECG can now be extracted from the complex bioelectrical signals derived from maternal abdomen. The high frequency sampling of QRS complexes allow for an adequate resolution for PRSA analysis (deceleration and acceleration capacity). This is a promising novel technique to study acute and chronic fetal stress in utero.

Faculty or Department Department of Biomedical and Clinical Sciences - Università degli Studi di Milano

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