



**UNIVERSITÀ
DEGLI STUDI
DI BRESCIA**

DIPARTIMENTO DI MEDICINA MOLECOLARE E TRASLAZIONALE
DOTTORATO DI RICERCA IN PRECISION MEDICINE
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PhD PROGRAM IN PRECISION MEDICINE

COURSE

“Metabolic Perspective in Angiogenesis for a Precision Medicine”

Dr. Michela Corsini

DMMT – Università degli Studi di Brescia

ROOM B1

24 January 2024 14:00 – 16:00

Lesson 1 – Metabolic needs in Angiogenesis

Angiogenesis in physiological and pathological processes.
Metabolic regulation of angiogenic factors.

26 January 2024 14:00 – 16:00

Lesson 2 – The Metabolic adaptation during Angiogenesis

Metabolic changes during angiogenesis.
Aerobic vs anaerobic metabolism: advantages and disadvantages.

30 January 2024 14:00 – 16:00

Lesson 3 – Nutrient and Oxygen Sensing Pathway

How endothelial cells sense changes in nutrient and oxygen levels.
The involvement of mTOR, AMPK, and HIF-1 α in sensing mechanisms.

1 February 2024 14:00 -16:00

Lesson 4 – Mitochondrial dynamics in Angiogenesis

The role of mitochondrial dynamics in regulating angiogenesis.
Fission and fusion events that influence endothelial cell function.



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