

Experiment Proposal

Experiment number GP2022016

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Experiment title Metabolic characterization of ALS neurosphere

SRF Instrument **Metabolomics**

Access Route Rapid Access

Science Areas Biology and Bio-materials

Sponsored Grant None

Grant Title -

Start Date -

Similar Submission? -

Industrial Links -

Non-Technical Abstract Amyotrophic lateral sclerosis (ALS) is a fatal progressive neurodegenerative disorder primarily characterized by selective degeneration of both the upper motor neurons in the brain and lower motor neurons in the brain stem and the spinal cord. The exact mechanism for the selective death of neurons is unknown. Many patients with ALS exhibit metabolic changes such as hypermetabolism and body weight loss. Despite these whole-body metabolic changes being observed in patients with ALS, the origin of metabolic dysregulation remains to be fully elucidated. Therefore, in this proposal we will perform metabolomics analysis using both untargeted and targeted approaches in order to better understand causes of metabolic dysfunction and subsequent neurodegeneration, able to identify new therapeutic strategies in ALS.

Publications -

Days requested: 5

Previous GP Number: -

DOI: -

Sponsor: -

Grant Number: -

Finish Date: -

Instruments

Access Route

Science Areas

Sponsored Grant

Grant Title

Start Date

Similar Submission?

Industrial Links

Days Requested:

Previous RB Number:

DOI:

Sponsor:

Grant Number:

Finish Date:



Sample record sheet

Principal contact Dr Daniela Gaglio, CNR, ITALY
SRF Instrument **Metabolomics**
Special requirements:

Days Requested: 5

SAMPLE

Material	animal tissues and cell culture	-
Formula	Labeling performed using ¹³ C6	-
	Glucose	
Forms	Solid	
Volume	cc	
Weight	300 mg	
Container or substrate	-	-
Storage Requirements	liquid nitrogen and dry ice	-

SAMPLE ENVIROMENT

Temperature Range	- K	-
Pressure Range	- mbar	-
Magnetic field range	- T	-
Standard equipment	-	-
Special equipment	-	-

SAFETY

Prep lab needed	Yes	-
Sample Prep Hazards	-	-
Special equip. reqs	-	-
Sensitivity to air	No	-
Sensitivity to vapour	No	-
Experiment Hazards	-	-
Equipment Hazards	-	-
Biological hazards	-	-
Radioactive Hazards	-	-
Additional Hazards	-	-
Additional Details	-	-
Sample will be	Disposed by IS	-

