



Università degli Studi di Pavia
Dipartimento di Biologia e Biotechnologie
“Lazzaro Spallanzani”

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Dipartimento di Biologia e Biotechnologie

**Role of the mTOR-downstream effector S6K
in Tuberous Sclerosis Complex Neurological
Manifestations**

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Tuberous sclerosis complex (TSC) is a disease caused by constitutive activation of the mTOR pathway. The presentation will concentrate on the contribution of the mTOR downstream effector S6 kinase (S6K) in a mouse model of the disease and on the role played by one of its substrates, the potassium channel TREK1, in the neurological manifestation of TSC.