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WEEKLY COLLOQUIUM

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ROSEDALE CONFERENCE ROOM
BILLINGS BUILDING

The Sur1-Trpm4 Channel in CNS Injury

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ABSTRACT: The story of the Sur1-Trpm4 channel is truly one of “bene
-to-bedside”. Discovered in patch clamp electrophysiology
experiments over 15 years ago, the channel has since been shown
to play a critical role in oncotic (necrotic) cell death, in edema
formation, and in secondary hemorrhage. Blockage of the channel
is highly beneficial in clinically relevant animal models of cerebral
ischemia, subarachnoid hemorrhage, brain and spinal cord traum,
encephalopathy of prematurity and other neurological conditions.
Two Phase 2 clinical trials evaluating channel blockade are
scheduled to end this year, one in patients with a large stroke, the
other in patients with moderate to severe TBI.

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