

## **Supplemental Information**

### **Potent Anti-seizure Effects of Locked Nucleic**

### **Acid Antagomirs Targeting miR-134**

### **in Multiple Mouse and Rat Models of Epilepsy**

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## Supplemental Information

**Supplemental Table S1** Autopsy control details

Identifier	Gender	Age (y)	Tissue	Cause of death	PMI (h)
C1	F	24	Hippocampus	Accident, Head injuries	7
C2	F	42	Hippocampus	Hypertensive Arteriosclerotic Cardiovascular Disease	4
C3	M	32	Hippocampus	Morphine intoxication	7
C4	M	41	Hippocampus	Undetermined, history of heart problems	6
C5	M	29	Hippocampus	Acute pancreatitis	8
C6	F	35	Hippocampus	Accident, Multiple injuries	2
C7	M	40	Hippocampus	Hemopericardium / Aortic Dissection	9
C8	M	39	Hippocampus	Hemopericardium	16
C9	M	50	Hippocampus	Acute alcohol intoxication	19
C10	F	46	Hippocampus	Hypertensive Atherosclerosis Heart Disease	18
C11	F	37	Hippocampus	Asthma	16
C12	F	42	Hippocampus	Cardiac Arrhythmia	12

Key: F, female; h, hours; M, male; PMI, post-mortem interval; y, years

**Supplemental Table S2** Epilepsy patient details

Identifier	Gender	Age (y)	Tissue	Diagnosis and other pathology findings
E1	M	30	Hippocampus	Hippocampal Sclerosis
E2	F	33	Hippocampus	Mesial temporal sclerosis mild
E3	F	49	Hippocampus	Mesial hippocampal sclerosis mild
E4	F	40	Hippocampus	Mesial temporal sclerosis mild
E5	M	43	Hippocampus	Hippocampal gliosis
E6	M	46	Hippocampus	Minimal hipo gliosis
E7	F	18	Hippocampus	Mesial temporal sclerosis mild
E8	M	19	Hippocampus	Gliosis
E9	M	40	Hippocampus	Astrocytosis no inflammation
E10	F	38	Hippocampus	Mesial sclerosis moderate
E11	F	33	Hippocampus	Gliosis minimal, neuronal loss
E12	F	54	Hippocampus	Mesial temporal sclerosis severe

Key: F, female; M, male; y, years