

Supplementary Material Table 1 ( Not part of the Manuscript )

Information source	Date last searched	Search strategy
<b>PubMed</b>	<b>August 2025</b>	((("REST"[Title/Abstract] OR "NRSF"[Title/Abstract] OR "RE1-silencing transcription factor"[Title/Abstract] OR "neuron-restrictive silencer factor"[Title/Abstract]) AND ("spinal cord injury"[Title/Abstract] OR "optic nerve injury"[Title/Abstract] OR "CNS injury"[Title/Abstract] OR "axon regeneration"[Title/Abstract] OR "neurite outgrowth"[Title/Abstract]) AND ("neuroprotection"[Title/Abstract] OR "neurodegeneration"[Title/Abstract] OR "aging"[Title/Abstract] OR "ischemia"[Title/Abstract] OR "stroke"[Title/Abstract]) AND ("epigenetic regulation"[Title/Abstract] OR "transcriptional repression"[Title/Abstract] OR "chromatin remodeling"[Title/Abstract] OR "regeneration-associated genes"[Title/Abstract])) AND (english[Language]) AND ("2000/01/01"[Date - Publication] : "2025/12/31"[Date - Publication])
<b>Scopus</b>	<b>August 2025</b>	TITLE-ABS-KEY (("REST" OR "NRSF" OR "RE1-silencing transcription factor" OR "neuron-restrictive silencer factor") AND ("spinal cord injury" OR "optic nerve injury" OR "CNS injury" OR "axon regeneration" OR "neurite outgrowth") AND ("neuroprotection" OR "neurodegeneration" OR "aging" OR "ischemia" OR "stroke") AND ("epigenetic regulation" OR "transcriptional repression" OR "chromatin remodeling" OR "regeneration-associated genes")) AND PUBYEAR > 1999 AND PUBYEAR < 2026 AND (LIMIT-TO (LANGUAGE, "English"))
<b>Web of Science Core Collection</b>	<b>August 2025</b>	TS=((("REST" OR "NRSF" OR "RE1-silencing transcription factor" OR "neuron-restrictive silencer factor") AND ("spinal cord injury" OR "optic nerve injury" OR "CNS injury" OR "axon regeneration" OR "neurite outgrowth") AND ("neuroprotection" OR "neurodegeneration" OR "aging" OR "ischemia" OR "stroke") AND ("epigenetic regulation" OR "transcriptional repression" OR "chromatin remodeling" OR "regeneration-associated genes"))) Refined by: Languages=(ENGLISH) AND Document Types=(ARTICLE)
<b>Backward citation screening of eligible studies</b>	<b>August 2025</b>	Reference lists of studies meeting full-text eligibility criteria were screened manually to identify additional relevant primary literature. This process was used in particular to capture foundational studies published between 1995 and 1999 that were not the focus of the primary date-limited database search but were necessary to establish REST/NRSF discovery, RE1 binding, and corepressor recruitment.

Supplementary Table S1. Full search strategies for PubMed, Scopus, and Web of Science used in study identification.