

miRNA Family	Subtype	Pop	Trauma	Time Point(s)	Exosome Source	NDE/ADE Total	Source
9*	a-5p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
22	5p	Mice, M, 12-14wks	Blast, CCI	1hr, 1, 4, 14 day	Plasma	Total	Ko, 2019
26	a-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
28	3p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
30*	e-3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
30	a-3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
92	a-3p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
96	5p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
124*	3p	Mice, M, 12wks	CCI, Rep	42 Days	Brain Extract	ADE	Ge, 2020
128*	2-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
128	1-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
128	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
130*	b-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
139*	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
139	5p	Human, Chronic Vet	Blast	~11 years	Plasma	Total	Devoto, 2021
139	5p	Human, Chronic Vet	mTBI	~9 years	Plasma	Total	Guedes 2021
145*	3p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
150	5p	Mice, M, 12-14wk	Blast, CCI	1hr, 1, 4, 14 day	Plasma	Total	Ko, 2019

150	5p	Human, Chronic, Vet	Blast	~11 years	Plasma	Total	Devoto, 2021
203*	b-5p	Human, Civilian	Mild TBI	1 day	Plasma	Total	Ko, 2019
203	a-3p	Human, Civilian	Mild TBI	1 day	Plasma	Total	Ko, 2019
212	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
221	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
221	5p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
222	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
229	b-3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
298	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
335*	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
337	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
351	3p	Mice, M, 12-14wks	Blast, CCI	1hr, 1, 4, 14 day	Plasma	Total	Ko, 2019
361*	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
370	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
451	5p	Rats, M, 12-16wks	Weight Drop	24hrs	Plasma	Total	Wang, 2020
669	c-5p	Mice, M, 12-14wk	Blast, CCI	1hr, 1, 4, 14 day	Plasma	Total	Ko, 2019
671	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
744	3p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
764	3p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
767		Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020

770	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
874	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
940	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
1251		Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
1843	b-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
3473	e	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
3547	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
4332	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
6215	l	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
6236		Mice, M, 12-14wks	Blast, CCI	1hr, 1, 4, 14 day	Plasma	Total	Ko, 2019
6239	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
6240	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
6481	3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
7641		Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
7641	2-5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
7641	2-3p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
7660	3p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
7665	5p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
7674	5p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
7681	3p	Mice, M, 12wks	CCI, Rep	3, 14, 42 Days	Brain Extract	ADE	Ge, 2020
7977		Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016

8962	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
9077	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016
9342	5p	Mice, M, 7-9wks	CCI	7 Days	Brain Extract	Total	Harrison, 2016

Supplemental Table 2: Underexpressed miRNA across species. This table details miRNA which has been identified as undergoing a significant decrease in expression levels after traumatic brain injury. M = male, Vet = Veteran, CCI = controlled cortical impact, Rep TBI = repetitive TBI. Items in bold are miRNA families identified in multiple studies. Items with * have been identified as being significantly under-expressed by a different study (listed in **Supplemental Table 1**).