| 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 |
|   | p  | Source | Species | Age/Health | Condition | Time | Sample Type | Total | Devote/Ko/Harrison/Wang/Ge, 2021 |
|---|----|--------|---------|------------|-----------|------|-------------|-------|--------------------------------|
|150 | 5p | Human, Chronic, Vet | Human, Civilian | ~11 years | Mild TBI | 1 day | Plasma | Total | Ko, 2019 |
|203* | b-5p | Human, Civilian | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|221 | 3p | Mice, M, 7-9wks | Rats, M, 12-16wks | Weight Drop | 24hrs | Plasma | Total | Wang, 2020 |
|222 | 3p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|229 | b-3p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|298 | 5p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|335* | 3p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|337 | 5p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|351 | 3p | Mice, M, 12-14wks | Mice, M, 12wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|361* | 3p | Mice, M, 7-9wks | Mice, M, 12wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|370 | 5p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|451 | 5p | Rats, M, 12-16wks | Rats, M, 12-16wks | Weight Drop | 24hrs | Plasma | Total | Wang, 2020 |
|669 | c-5p | Mice, M, 12-14wks | Mice, M, 12-14wks | Blast, CCI | 1hr, 1, 4, 14 day | Plasma | Total | Ko, 2019 |
|671 | 5p | Mice, M, 7-9wks | Mice, M, 7-9wks | CCI | 7 Days | Brain Extract | Total | Harrison, 2016 |
|744 | 3p | Mice, M, 12wks | Mice, M, 12wks | CCI, Rep | 3, 14, 42 Days | Brain Extract | ADE | Ge, 2020 |
|764 | 3p | Mice, M, 12wks | Mice, M, 12wks | CCI, Rep | 3, 14, 42 Days | Brain Extract | ADE | Ge, 2020 |
|767 | Mice, M, 12wks | Mice, M, 12wks | CCI, Rep | 3, 14, 42 Days | Brain Extract | ADE | Ge, 2020 |
| ID  | P  | Animals            | Procedure | Age | Treatment | Duration | Preparation | Total | Source        |
|-----|----|--------------------|-----------|-----|-----------|----------|-------------|-------|---------------|
| 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| I  | Mice, M, 7-9wks    | CCI       | 7   | Days      | Brain    | Extract     | Total | Harrison, 2016|
| 6236|    | Mice, M, 12-14wks  | Blast, CCI| 1hr| 1, 4, 14 days | 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, 7-9wks    | CCI, Rep  | 3, 14, 42 Days | Brain    | Extract     | ADE  | Ge, 2020    |
| 7665| 5p | Mice, M, 7-9wks    | CCI, Rep  | 3, 14, 42 Days | Brain    | Extract     | ADE  | Ge, 2020    |
| 7674| 5p | Mice, M, 7-9wks    | CCI, Rep  | 3, 14, 42 Days | Brain    | Extract     | ADE  | Ge, 2020    |
| 7681| 3p | Mice, M, 7-9wks    | CCI, Rep  | 3, 14, 42 Days | Brain    | Extract     | ADE  | Ge, 2020    |
| 7977|    | 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).