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(54) Title: AAV-BASED ANTI-GA THERAPY

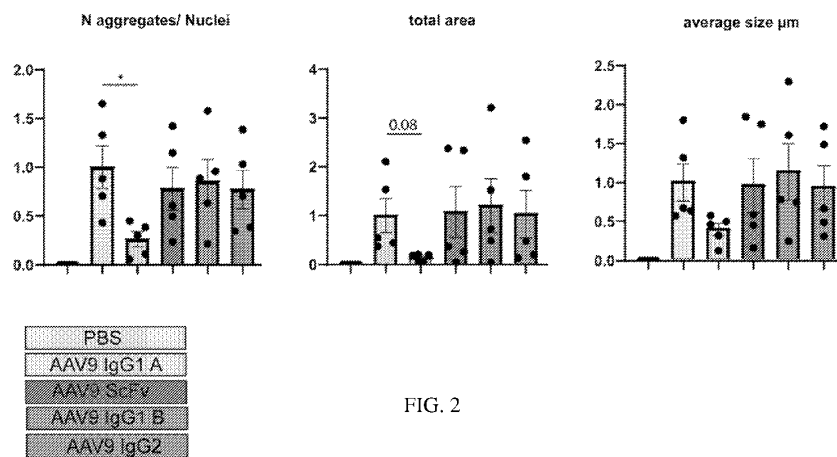


FIG. 2

(57) Abstract: Aspects of the disclosure relate to compositions and methods for the diagnosis and/or treatment of certain neurodegenerative diseases, for example those diseases associated with repeat-associated non-ATG (RAN) translation proteins, such as amyotrophic lateral sclerosis (ALS). In some embodiments, the disclosure relates to recombinant adeno-associated viruses (rAAVs) expressing antibodies and antigen-binding fragments thereof that bind to poly(GA) RAN proteins. In some embodiments, the disclosure relates to methods of treating a RAN protein-associated disease by administering to a subject in need thereof the rAAVs.

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