**About the technology** - The technology addresses the problem of regenerating cardiomyocytes (CM) after Myocardial infarction (MI). While it has been previously shown that administering Neuregulin-1 (NRG-1) can improve cardiac function in heart failure patients, it did not perform as expected in clinical trials. Prof. Eldad Tzahor’s team has found that the missing component abating NGR-1’s effect was the lack of sufficient expression/activity of erbB-2. Therefore, the team has proposed a combined treatment of using both NRG-1 and another factor that upregulates erbB-2 activity/expression.

**Bottom line -** From my understanding of the paper (and conversations with Prof. Tzahor’s lab members) the core technology relies on the ability to induce expression of erbB-2. All other factor described in the paper are auxiliary.

The key issue is how to induce erbB-2 expression. From discussions with lab members at Prof. Tzaho’s lab I understand that this requires use of an adeno virus or modified RNA to upregulate expression.

**How am I focusing my search -** Since this is a therapy directed at MI but requires some sort of gene delivery tool I am looking for companies with an interest/background in the former and experience/interest in the latter.

**Methods for searching relevant companies:**

1. I first used the <https://clinicaltrials.gov/> to search for companies that have tested AAV9 or other adenoviruses
2. A Google search with the known drug company names and the key words: “AAV9”, “adenoviruses”, “heart disease”, “modifiedRNA”
3. Search FierceBiotech with any relevant news pertaining to companies that are developing gene therapy drugs for any cardiovascular diseases.

**Additional Source**

<https://academic.oup.com/eurheartj/article/37/21/1651/2887738> - A review on Gene therapy for the treatment of heart failure, speicfically of intetrest are clinical trails and differetn delivery methods

<https://www.ncbi.nlm.nih.gov/pubmed/29904823> - a review specifically discussing the field of therapeutic CM proliferation