

**ReNeuron Group plc**  
("ReNeuron" or the "Company")

**Positive Exosome data presented at US conference**

***ReNeuron presents new data on the significant advantages of its stem cell derived exosome platform, CustomEx™, including a 600% increase in delivery of siRNA compared to a conventional HEK exosome approach***

**ReNeuron Group plc (AIM: RENE)**, a UK-based leader in stem cell derived exosomes technologies, announces that the Company's CSO, Dr Randolph Corteling, has presented new data at the Extracellular Vesicle-Based Therapeutic Development Summit in Boston, MA, highlighting the significant advantages of the Company's stem cell derived exosome approach.

Key highlights from the presentation entitled ***Targeted Delivery of Therapeutic Payloads Using Engineered Stem Cell Exosome*** included:

- When comparing the uptake of a panel of exosomes into three different target cell types (Epithelial cells, Endothelial cells and Neural cells), ReNeuron identified one or more CustomEx™ exosome types that outperformed the conventional approach of using human embryonic kidney-derived (HEK) exosomes by a minimum of a 10-fold in each of the three different cell types. This was most pronounced with Endothelial cells where one of ReNeuron's CustomEx™ exosome types showed an 18-fold improvement in uptake over HEK-derived exosomes.
- When ReNeuron's exosomes were loaded with an siRNA payload, this improvement in uptake was reflected in the siRNA delivery to the target cell, with the best performing CustomEx™ exosome type showing a 600% improvement in siRNA delivery to the target cell when compared to delivery from a HEK-derived exosomes.

Data was also presented at the conference on the Company's continued work in delivery of Brain Derived Neurotrophic Factor (BDNF) through the use of exosomes. Following data presented in October 2021, the Company has now shown in an in-vitro study in retinal ganglion cells a sustained survival rate of these cells when treated with BDNF loaded exosomes compared to unloaded exosomes. BDNF is known to be associated with retinal as well as neurological degenerative processes and this data highlights the further potential of effective delivery of BDNF in this area. Further in-vitro / in-vivo studies assessing the potential of delivery of BDNF via exosomes are ongoing.

**Dr Randolph Corteling, Chief Scientific Officer, commented:** *"This represents a significant advance in the potential use of human stem cell-derived exosomes as delivery vectors for complex drug modalities, with this new data highlighting the significant improvement in uptake and delivery of a payload that can be achieved by customising the exosome type to maximise payload delivery to the desired cell type.*

*"ReNeuron's CustomEx™ platform is the only platform that offers this ability to customise the exosome cell type for a partners' need and the payload / target cell of their choice, while offering a scalable and repeatable manufacturing process due to its patented conditional immortalisation technology. This technology was enabled through the Company's earlier work in producing GMP stem cells approved by the FDA and MHRA for the clinic from which the Company's exosomes are now produced.*

*"I am also pleased to see positive data with our BDNF loaded exosomes highlighting the further potential of this programme."*

**Catherine Isted, Chief Executive Officer, commented:** *"The key to the challenge of drug delivery is about getting the chosen payload to the target cell of choice. This data clearly shows how our customisable Exosomes platform CustomEx™, is able to be an enabler for this exciting next generation of targeted therapies. Our- collaborations with global pharma, biotech and academic partners already use ReNeuron's exosomes as a delivery vehicle for their*

*therapeutic agents, and this new data will support our efforts to progress and increase the number of our partner programmes, a key aspect of our monetisation strategy.”*

The presentation and a poster presented at the conference will be available shortly on the Company’s website: <https://www.reneuron.com/investors/presentations/>

CustomEx™ is a register trademark of ReNeuron Limited

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**About ReNeuron**

ReNeuron is a UK based Proprietary Stem Cell derived Exosome Technologies company, harnessing its unique stem cell technologies to develop ‘off the shelf’ treatments for diseases with significant unmet needs.

ReNeuron’s stem cell derived proprietary Exosome Technology platform offers a delivery mechanism for a variety of payloads such as siRNA, mRNA, proteins, small molecules and genes. The Company has a growing number of partner collaborations with Global Pharma, Biotech and academic partners in this fast-expanding area of scientific and commercial interest. ReNeuron also has the ability, through its conditionally immortalised induced pluripotent stem cell (iPSC) platform, to make allogeneic tissue cells of choice and has the potential to produce exosomes with tissue specific targeting ability.

The Company has out-licenced its CTX Programme for stroke disability and hRPC programme in retinitis pigmentosa to Fosun in China and is looking to out-licence both these programmes in other territories.

ReNeuron’s shares are traded on the London AIM market under the symbol RENE.L. For further information visit [www.reneuron.com](http://www.reneuron.com)