

To: jeffrey E.[jeevacation@gmail.com]
From: george church
Sent: Mon 8/11/2014 2:21:08 PM
Subject: Re: value

Revenesis.com (short for "Regenesis ventures", based on my book title)

Alternative 2: **Transvenesis.com** (for Transformative Inventions)

Alternative 3: **Georgarage.com** At Google Sci-foo this weekend several DIYBio hackers and investors spontaneously said that they'd love to see a "George's Garage" newsletter, since so many disruptive ideas in Bio-nano-info seem to be coming these days from my lab. Also GEO is an accepted abbreviation for Genetically Engineered Organisms.

"Rage" definition: "a violent desire or passion", "all the rage: widely popular or in style."

--George

From: "jeffrey E." <jeevacation@gmail.com>
Date: Monday, August 11, 2014 at 9:28 AM
To: george church [REDACTED]
Subject: Re: value

decide what you would like to call your investment co.

On Mon, Aug 11, 2014 at 7:27 AM, george church [REDACTED] wrote:

OK. Great. I'll contact check with eGenesisBio.com and "Next generation pathology" teams and see who is most ready to take this on.

What is the next step after that?

--George

From: "jeffrey E." <jeevacation@gmail.com>
Date: Monday, August 11, 2014 at 9:04 AM
To: george church [REDACTED]
Subject: Re: value

lets start on first investment

Below is a first pass list of potential investments for the \$10M. This may be more information than you wanted at this point (especially given the trade-off between jargon and brevity), but I'm having so much fun, I just wanted to share it. I'm also recording a few extra thoughts, in case they provide "teaching moment" or post-mortem at some point.

\$200,000	Supercentenarianstudy.com
\$1,500,000	eGenesisBio.com
\$1,000,000	Sensor-Selectors

\$1,000,000	Protein stability & virus resistance
\$1,000,000	Pest control
\$800,000	Aging reversal
\$1,550,000	Next generation pathology
\$250,000	Space Genetics
\$200,000	Cold-resistant elephants
\$2,500,000	2nd tranche
\$10,000,000	Total

- 1) Supercentenarianstudy.com Thirty genomes collected so far on a small budget by James Clement. \$200K would get 8% ownership of the company and allow another 30 genomes to be collected, sequenced and therapies patented.
- 2) eGenesisBio.com: Using CRISPR to engineer animals for resistance to infectious diseases and to act as transplantation donors for major organs (initially kidneys) to humans. Co-founded with Prashant Mali and Luhan Yang. Already has a couple of contracts and a some rented lab space.
- 3) Sensor-selector technology for optimizing commercial production of (bio)chemicals. Lead by Vatsan Raman.
- 4) New redox-insensitive protein cross linking based on radically recoded bacterial genomes and/or Multi-virus-resistant organisms. We just published papers and patents on this. Lead by Dan Mandell.
- 5) Eliminating ecosystem pests and invasive species. Lead by Kevin Esvelt. This will probably be in the news on July 17. Business model similar to the relationship between Amyris and the Gates Foundation for manufacturing anti-malaria drugs.
- 6) Making human genetic disease models in organoids and aging reversal using CRISPR and other epigenetic reprogramming factors. Lead by Bobby Dhadwar and Eswar Iyer. Possibly mergeable with Supercentenarianstudy.com
- 7) A new sequencing method capable of displacing part of the medical pathology imaging market and filling in the large gaps in most plant and animal genome sequences. Lead by Rich Terry.
- 8) Genome engineering of humans for space. Seed money for patent fees, some lab tests and education efforts via pgEd. Lead by Ting Wu.
- 9) Making cold-resistant elephants via CRISPR, focusing on blood, subcutaneous fat and wool/hair (based on what is know about cold-resistant animals, Mammoth DNA, and human mutations). Economics could be like the American Bison which recently grew from a hundred to 500,000 as a source of low cholesterol meat. Lead by Margo Monroe and Justin Quinn. Possibly mergeable with EgenesisBio.
- 10) The rest would be set aside as a second tranche for whichever of the above efforts makes best progress first.

--George

From: "jeffrey E." <jeevacation@gmail.com>
Date: Thursday, July 10, 2014 at 8:07 AM
To: george church [REDACTED]
Subject: Re: value

I have a great idea. lets speak today if possible
please note

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