

JEFFREY EPSTEIN
6100 RED HOOK QUARTER B3
ST. THOMAS, USVI 00802-1348

DEUTSCHE BANK TRUST
COMPANY AMERICAS
NEW YORK, NEW YORK 10154
1-103-210

6/24/2014

PAY TO THE ORDER OF Joseph Thakuria

\$ **2,000.00

Two Thousand and 00/100***** DOLLARS

Joseph Thakuria
33 Dickinson Street, #2
Somerville, MA 02143

Daren Ludwig
AUTHORIZED SIGNATURE

MEMO

⑈000711⑈ ⑆021001033⑆ 05 ⑈35266976⑈

Security features. Details on back.

JEFFREY EPSTEIN
Joseph Thakuria

6/24/2014

711

2,000.00

DB JEE ckg 3526697

2,000.00

JEFFREY EPSTEIN
Joseph Thakuria

6/24/2014

711

2,000.00

DB JEE ckg 3526697

2,000.00

DELUXE CORP 1+800-328-0304

From: Jeffrey E. jeevacation@gmail.com
Subject: Re: Jeffrey -Please RESPOND ASAP!
Date: June 24, 2014 at 11:59 AM
To: Lesley Groff [REDACTED] Richard Kahn [REDACTED]

just send the 2k to joe today

On Tue, Jun 24, 2014 at 11:51 AM, Lesley Groff <[REDACTED]>
wrote:

below from Joe and invoice attached...Please let Rich know how much
you wish him to send to Joe and or/Joe's dad...

Begin forwarded message:

From: Joseph Thakuria <[REDACTED]>
Subject: Re: Jeffrey -Please RESPOND ASAP!
Date: June 24, 2014 11:33:15 AM EDT
To: Lesley Groff <[REDACTED]>
Cc: Rich Kahn <[REDACTED]>

Hi Lesley and Rich,

See attached invoice. I put this together based on my brief
conversation with Jeffrey on Sat.

The only payment that should go out ASAP is the exome sequencing
work. That comes out to \$1000 for the saliva sample I collected on Sat
from him PLUS \$1000 for exome sequencing of his fibroblasts PLUS
\$1000 for each person he wants to add to the study (if any).

The whole genome sequencing through Illumina does not need to be
paid until he gets the second consent form from me - about 2-3 weeks
from now. But if he wants to send and just have me hold on to it, that's
fine. This cost is \$11,400 for rapid turnaround. If he wanted to include
his parents for "trio analyses" that would be \$21,000.

All the other stuff is optional and explained in the attached invoice.
Happy to discuss with him if there are any questions (specifically the

large bioinformatics item (#7)

On Tue, Jun 24, 2014 at 7:50 AM, Lesley Groff <[REDACTED]> wrote:

Morning Joe...Jeffrey wants Rich to send you your check as of yesterday! Rich needs you to please reply to the below email ASAP... this check must go out today to you. He will send Federal Express...Is the check to be made out to you personally? Or if not, to who? Please confirm check should be mailed to your home address...thanks, Lesley

Begin forwarded message:

From: Richard Kahn <[REDACTED]>
Subject: jeffrey epstein
Date: June 23, 2014 1:51:55 PM EDT
To: [REDACTED]
Cc: Lesley Groff <[REDACTED]>

can you please confirm that check will be made payable to yourself and mailed to the following address below:

Joe Thakuria
33 Dickinson St., #2
Somerville, MA 02143

Fed ex

jeffrey would like me to send today
please advise if i should send via fed ex?
thank you

Richard Kahn
HBRK Associates Inc.
575 Lexington Avenue 4th Floor
New York, NY 10022
tel [REDACTED]
fax [REDACTED]
cell [REDACTED]

From: Lesley Groff [REDACTED]
Subject: Re: Jeffrey -Please RESPOND ASAP!
Date: June 24, 2014 at 12:04 PM
To: Joseph Thakuria [REDACTED]
Cc: Rich Kahn [REDACTED]

Thanks Joe...Rich will be sending you \$2000 today via fed ex to your home address for now...

thanks, Lesley

On Jun 24, 2014, at 11:33 AM, Joseph Thakuria

<[REDACTED]> wrote:

Hi Lesley and Rich,

See attached invoice. I put this together based on my brief conversation with Jeffrey on Sat.

The only payment that should go out ASAP is the exome sequencing work. That comes out to \$1000 for the saliva sample I collected on Sat from him PLUS \$1000 for exome sequencing of his fibroblasts PLUS \$1000 for each person he wants to add to the study (if any).

The whole genome sequencing through Illumina does not need to be paid until he gets the second consent form from me - about 2-3 weeks from now. But if he wants to send and just have me hold on to it, that's fine. This cost is \$11,400 for rapid turnaround. If he wanted to include his parents for "trio analyses" that would be \$21,000.

All the other stuff is optional and explained in the attached invoice. Happy to discuss with him if there are any questions (specifically the large bioinformatics item / #7).

I think if the check is in the \$5000-6000 range just for the exomes, it can just get made out to me and sent to my home address.

For larger checks including those other items, I wonder if it could be mailed to one of my family members. This is embarrassing but since I'm divorced and owe the ex some money, I don't want a large amount going into my personal account and potentially being at risk when it all needs to get used for this research. Anyway, let me know what Jeffrey is willing to

From: Joseph Thakuria [REDACTED]
Subject: Re: Jeffrey -Please RESPOND ASAP!
Date: June 24, 2014 at 11:22 AM
To: Lesley Groff [REDACTED]
Cc: Rich Kahn [REDACTED]

Hi Lesley and Rich,

See attached invoice. I put this together based on my brief conversation with Jeffrey on Sat.

The only payment that should go out ASAP is the exome sequencing work. That comes out to \$1000 for the saliva sample I collected on Sat from him PLUS \$1000 for exome sequencing of his fibroblasts PLUS \$1000 for each person he wants to add to the study (if any).

The whole genome sequencing through Illumina does not need to be paid until he gets the second consent form from me - about 2-3 weeks from now. But if he wants to send and just have me hold on to it, that's fine. This cost is \$11,400 for rapid turnaround. If he wanted to include his parents for "trio analyses" that would be \$21,000.

All the other stuff is optional and explained in the attached invoice. Happy to discuss with him if there are any questions (specifically the large bioinformatics item / #7).

I think if the check is in the \$5000-6000 range just for the exomes, it can just get made out to me and sent to my home address.

For larger checks including those other items, I wonder if it could be mailed to one of my family members. This is embarrassing but since I'm divorced and owe the ex some money, I don't want a large amount going into my personal account and potentially being at risk when it all needs to get used for this research. Anyway, let me know what Jeffrey is willing to cover and if the check is large, I may ask that it go to my dad (who is absolutely trustworthy - he would just be hanging on to funds as we disburse it for the various research items).

Thank you both of your help. Let me know if anything needs clarification.

Joe Thakuria

6/24/2014

J.E. Invoice:

1. Exome sequencing: This is \$1000 each. Right now I only have JE's saliva sample for sequencing. If he wants to submit the kits I provided him with, it will be \$1000 for each additional sample.

= \$1000 (+ \$1000 for every additional exome for other people submitting saliva samples)

2. Exome sequencing of JE's fibroblasts: I discussed with JE the research significance of comparing his exome data on blood with his fibroblast cell lines (which I already have frozen down in liquid nitro at Boston Childrens Hospital). Sequencing this cell line would be an additional \$1000.

I'm going to try my best to get it in with this sequencing run but because they are cells, that may be tricky. (They'll get in the next round if they don't make this one.)

= \$1000

3. iPS cell lines: We've discussed making adult stem cells from JE's fibroblast cells. If we do this, he, like George Church, would be one of very few people in the world to have this done. With multiple cell passages, the process takes a minimum of 6 months and there's no guarantee it will work – but the failure rate is probably around 1 in 6 or less and eve in those instances, we can still do it – it would just take more time and some additional funds for reagents.

Price = \$10,000. This is pretty much at cost given the labor and reagents. I only know of 1 commercial group providing this service – and they charge more than \$10,000/ induced pluripotent cell line.

= \$10,000

4. Whole genome sequencing through Illumina: I won't be able to send this on to Illumina until JE completes the second consent form which should be available in 1-2 weeks. If he wants to send it ahead of time though, I guess that's fine.

= ~\$11,400 for rapid turnaround

I don't know if JE's parents are living – but if he wanted to include them (which greatly aids my genome analysis to have that data to compare), the cost would be \$21,000. See:

http://www.illumina.com/clinical/illumina_clinical_laboratory/igs_for_doctors/how_to_order.ilmn

5. Whole genome analyses: We only discussed very briefly so I'm not sure Jeffrey will remember but I mentioned to him that I was starting a medical genomics private practice that would charge for personal whole genome and exome analyses. We're planning to price this in the \$10,000 range per patient and will include reanalysis of genomic data (based on our collective improved knowledge of genomic variants) on a yearly basis for 3 years.

My plan for the first few people to sign up is to offer longterm biobanking of DNA and cells and *lifelong* reanalysis of data. Even if we expand as planned, because of the labor involved, we would only be able to offer this for our first few patients. Essentially, I would be the personal medical genomicist for these people. To my knowledge, no such service is available yet. If he's interested...

= \$10,000

6. Personalized longevity studies: Funding for genetics research in academia generally relies on federal NIH funding or pharma funding – which, respectively, are disease and drug focused. I'm seeking funding to systematically introduce mutations in cell culture that would be expected to increase longevity. If he goes with number 5 (lifelong analyses) and number 3 above (generation of iPS cell lines from his fibros), I would bundle this work into #5 and do the genomic engineering on his iPS cells when they're available.

I would use a CRISPR/Cas9 platform to introduce the mutations. I would need the money for reagents but this work would essentially be included with #5 for JE since he would be one of the first. Since it's so labor intensive (the technology is brand new so there are no automated systems to do this yet).

= free if going with #5 + CRISPR/Cas9 reagents(this should only be a few thousand)

7. Venus project: Jeffrey and briefly discussed a genomic research studying I'm dubbing the Venus project (he'll know what this). I can do this for him but doing this work would be greatly aided by having some good bioinformatic infrastructure. This infrastructure could be used for the Venus project, YPO analyses, and other projects. Total anticipated costs for this would be \$160,00:

Genomic hardware: \$100,000

Genomic software: \$60,000/yr (this is for 2 systems costing \$30,000 each/yr)

The software component would only need to be paid for 1 year because I'm confident I can get other funding to cover this once we publish data in the first year using these resources.

= \$160,000

This is a big ticket item (at least relative to my bank acct 😊) so I'm happy to discuss this item more with Jeffrey if he's interested in supporting this. If he covers this and pays for

the exomes which \$1000/person – and he mentioned 200 participants being in this project – I can deliver on this “Venus” research.

So, if he goes with everything on this invoice, it’s:

1. \$1000 (\$1000 for every additional exome on others he wants to include in the YPO study)
2. \$1000 for exome sequencing of JE’s fibros
3. \$10,000 to create adult stem cells for JE from his fibro cell lines
4. \$11,400 for his whole genome (\$21,000 if he wanted to include both of his parents; not sure if this is even feasible)
5. \$10,000 indefinite biobanking of his samples for eternity, lifelong reanalysis of genomic data on an annual basis, and CRISPR/Cas9 manipulation of his adult stem cells to introduce mutations in culture believed to increase longevity. I’m only offering this to Jeffrey. Because of all the labor involved, there’s simply not enough bandwidth to offer this to more than a handful of people right now (at least in 2014).
6. Included in #5
7. \$160,000 Bioinformatic infrastructure for the Venus project, the YPO study, and any other pet genomic projects Jeffrey might have interest in now or in the future.

Total: \$193,400.00

From: 
Bella Klein
HBRK Associates, Inc.
575 Lexington Ave, 4th Floor
New York, NY 10150

Origin ID: JRBA



Ship Date: 24JUN14
ActWgt: 0.5 LB
CAD: 100311032/NET 3490

Delivery Address Bar Code



SHIP TO: (212) 750-9895

BILL SENDER

Joseph Thakuria

33 Dockinson Street, #2

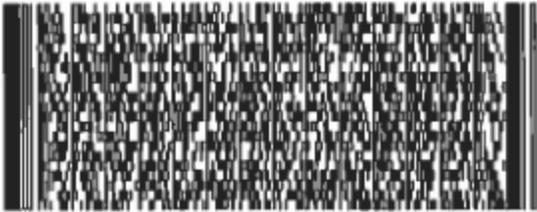
SOMERVILLE, MA 02143

Ref #
Invoice #
PO #
Dept #

WED - 25 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7704 0218 8364
0201

RES
02143
MA-US
BOS



EM DUTA



522656804F220

After printing this label.

- 1 Use the "Print" button on this page to print your label to your laser or inkjet printer.
- 2 Fold the printed page along the horizontal line
- 3 Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned

Warning Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.