



YENEPOYA
(DEEMED TO BE UNIVERSITY)
Recognized under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

Details of the Collaborative Activity

2020-21

Name of the Collaborating Institute: Dept of Medicine, Division of Nephrology Columbia University, New York, USA


Name of the Collaborating Department with YDU: Yenepoya Research Center

Activity:

Online discussion on collaborative joint research project titled “COVID-19 Host Genetics”

A discussion on collaborative joint research project titled “*Association between individual genetic ancestry and the severity of COVID-19 Manifestation*” was initiated by Dr. Ranajith Das using Genome data of European descents for studying the association between individual genetic ancestry and severity of Covid-19 manifestation with Columbia University, New York, USA, along with Yenepoya Research Center,

ATTESTED


Dr.Gangadhara Somayaji K.S.
Registrar
Yenepoya(Deemed to be University)
University Road, Deralakatte
Mangalore- 575 018, Karnataka



Ranajit Das <das.ranajit@gmail.com>

Re: [EXTERNAL] Host Genetics

6 messages

P S <poojagulvadi96@gmail.com>

Tue, Sep 28, 2021 at 10:19 AM

To: "Kirylyuk, Krzysztof" <kk473@cumc.columbia.edu>

Cc: "Khan, Atlas" <ak4046@cumc.columbia.edu>, das.ranajit@gmail.com

Hi,

We are ready to schedule a zoom meeting with Atlas. We will be available on the following dates:

- 1) Today, Tuesday 28th September 2-4 pm (IST time)
- 2) Wednesday 29th September any time (IST time)
- 3) Thursday 30th September 9-12pm (IST time)
- 4) Friday October 1st any time (IST time)

Let us know which is your favour.

Regards,
Pooja

On Mon, Sep 27, 2021 at 8:02 PM Kirylyuk, Krzysztof <kk473@cumc.columbia.edu> wrote:

Please contact Atlas Khan (cc-ed) and send him detailed instructions. We have not done analyses with ancient human data before, so he will also need the source of reference data. It may be helpful for you to schedule a zoom call with Atlas to go over analytical details and see what is feasible (we have several other projects that are ongoing, and it sounds like this project may take some time to complete).

Krzysztof

On Sep 27, 2021, at 1:26 AM, P S <poojagulvadi96@gmail.com> wrote:

Dear Dr Krzysztof,

Thanks so much for your email and your willingness to help. We would like to run an ancestry analysis with your data. For that, we need the patients' data to be merged with publicly available ancient and modern-day human data, as we have done in our study (<https://www.mdpi.com/2075-1729/11/9/921>). We need to know the ancestral components of these patients. For that, you will need to run ADMIXTURE (using PLINK file), and qpAdm/qpWave, Dstat etc using AdmixTools software (using EIGENSTRAT format file). We have mentioned the methodology in detail in our paper.

To start with, if you kindly run ADMIXTURE and PCA with your patients' dataset after merging it with available ancient and modern-day humans and send the files to me, I can guide you through the next steps. It will be of a big help and favor! One important question, have you categorized your patients into mild, moderate, severe and asymptomatic? If so, kindly label them accordingly in PCA and ADMIXTURE.

Thanking you in advance for all your help and support.

ATTESTED

Dr. Gangadhar Somayaji K.S.

Registrar
Yenepoya (Deemed to be University)
University Road, Deralakatte
Mangalore- 575 018, Karnataka

Regards,
Pooja

On Sat, Sep 25, 2021 at 4:59 AM Kiryluk, Krzysztof <kk473@cumc.columbia.edu> wrote:
Again, we cannot share VCF or PLINK files, or any primary (individual-level) genotype data for Eigenstrat, but can generate summary stats for you if you send us details of the analysis plan.

K.

On Sep 24, 2021, at 1:02 AM, P S <poojagulvadi96@gmail.com> wrote:

Dear Dr Krzysztof,

Thank you so much for your reply. It would have been really nice if we would have received VCF or PLINK file. However, if that is not possible can we get access to the summary statistics? Also, would it be possible for you to convert the data into Eigenstrat format and send it to us? Looking forward to hearing from you.

Regards,
Pooja Umesh Shenoy

On Fri, Sep 24, 2021 at 5:07 AM Kiryluk, Krzysztof <kk473@cumc.columbia.edu> wrote:

Hi Pooja,

We only have whole exome data and SNP data (GDA array), not whole genome sequence data.

According to our IRB protocol, we are unable to share primary data but could perform a targeted analysis if there is a specific analysis plan or question that you would like us to address.

CC-ing Atlas who handles our GWAS data and Gundula who performs WES analyses for HGI.

Krzysztof


--

Krzysztof Kiryluk M.D., M.S.
Columbia University
Department of Medicine
Division of Nephrology
[1150 St Nicholas Ave](http://1150StNicholasAve.com)
Russ Berrie Pavilion #412E
New York, NY 10032
Tel: 212-851-4926
www.kiryluklab.org
kk473@columbia.edu

On Sep 23, 2021, at 2:46 AM, P S <poojagulvadi96@gmail.com> wrote:

Hi,

I am a PhD student from India, working with Dr Ranajit Das, who is a population geneticist, working as an Assistant Professor

 **ATTESTED**
Dr. Gangadhara Somayaji K.S.
Registrar
Yenepoya/Deemed to be Univer
University Road, Deralakatti
Mangalore- 575 018, Karnataka

at Yenepoya University, India. We are interested in studying whether there is an association between individuals' genetic ancestry and the severity of COVID-19 manifestation. We performed a similar study on European descents, which has been published recently in MDPI Life-<https://www.mdpi.com/2075-1729/11/9/921>

I shall be grateful if you kindly provide me with the whole genome data of COVID-19 patients that is available with you so that we can test our hypothesis that there is an association between individual ancestry and the severity of COVID-19 manifestation (asymptomatic and mild vs severe). Looking forward to hearing from you.

Thanks and Regards,
Pooja Umesh Shenoy

Kirylyuk, Krzysztof <kk473@cumc.columbia.edu>

Tue, Sep 28, 2021 at 10:45 PM

To: P S <poojagulvadi96@gmail.com>

Cc: "Khan, Atlas" <ak4046@cumc.columbia.edu>, "das.ranajit@gmail.com" <das.ranajit@gmail.com>

I am free only on Friday 10-11a EST or 1-3p EST, but Atlas can meet with you separately of these times do not work for him.

Krzysztof
[Quoted text hidden]

Khan, Atlas <ak4046@cumc.columbia.edu>

Tue, Sep 28, 2021 at 10:47 PM

To: "Kirylyuk, Krzysztof" <kk473@cumc.columbia.edu>, P S <poojagulvadi96@gmail.com>

Cc: "das.ranajit@gmail.com" <das.ranajit@gmail.com>

Friday 1-3p EST working for me too.

Thanks,

Atlas.

[Quoted text hidden]

P S <poojagulvadi96@gmail.com>

Wed, Sep 29, 2021 at 10:31 AM

To: "Khan, Atlas" <ak4046@cumc.columbia.edu>

Cc: "Kirylyuk, Krzysztof" <kk473@cumc.columbia.edu>, "das.ranajit@gmail.com" <das.ranajit@gmail.com>

Hi Atlas,

Friday 2 pm (EST) is fine for us.

Regards,
Pooja

[Quoted text hidden]

ATTESTED

Dr.Gangadhara Somayaji K.S.
Registrar
Yenepoya(Deemed to be University)
University Road, Deralakatte
Mangalore- 575 018, Karnataka

P S <poojagulvadi96@gmail.com>

Thu, Sep 30, 2021 at 12:09 PM

To: "Khan, Atlas" <ak4046@cumc.columbia.edu>

Cc: "Kirylyuk, Krzysztof" <kk473@cumc.columbia.edu>, "das.ranajit@gmail.com" <das.ranajit@gmail.com>

Hi Atlas,

Can you please send the zoom link for tomorrow's meeting?

Regards,
Pooja

Khan, Atlas <ak4046@cumc.columbia.edu>

Thu, Sep 30, 2021 at 9:33 PM

To: P S <poojagulvadi96@gmail.com>

Cc: "Kirylyuk, Krzysztof" <kk473@cumc.columbia.edu>, "das.ranajit@gmail.com" <das.ranajit@gmail.com>


Hi Pooja,

Yes, just sent you invitation for tomorrow meeting.

Thanks,

Atlas.

ATTESTED


Dr.Gangadhara Somayaji K.S.
Registrar
Yenepoya(Deemed to be University)
University Road, Deralakatte
Mangalore- 575 018, Karnataka