

Report for joint NKJ-SNS networks

Submit the report before March 1st 2018 to sns@slu.se and hansson.nkj@slu.se
The report should not exceed 1000 words (including words in the template).

1. Network title:	The Nordic Network for pathogen informed control of oomycete diseases in forestry and agriculture
2. Network no:	SNS-NKJ 2015-04

3. Network coordinator:	Laura Grenville-Briggs Didymus
Address:	Department of Plant Protection Biology, SLU Alnarp
Email:	Laura.grenville.briggs@slu.se

4. Place for the activity:	Alnarp		
5. Duration of the activity	Start:	November 2015	End: January 2017

6. List the published outputs (peer-reviewed articles, other publications):
<p>Peer reviewed publications:</p> <p>Vetukuri RR, Kushwaha SK, Sen D, Whisson SC, Lamour KH, Grenville-Briggs LJ (2018) Draft genome of the oomycete taro pathogen <i>Phytophthora colocasiae</i>. Molecular Plant-Microbe Interactions (Accepted).</p> <p>Vetukuri RR, Tripathy S, Chandrababunaidu MM, Kushwaha SK, Chawade A, Andreasson E, Grenville-Briggs LJ, Whisson SC (2018) Tree pathogen <i>Phytophthora plurivora</i> has a compact ‘two speed’ genome. Genome Biology and Evolution (Accepted).</p> <p>Grenville-Briggs, L.J., Kushwaha, S.K., Cleary, M.R., Witzell, J., Savenkov, E.I., Whisson, S.C., Chawade, A., Vetukuri, R.R. (2017) Draft Genome of the Oomycete pathogen <i>Phytophthora cactorum</i> Strain LV007 isolated from European Beech (<i>Fagus sylvatica</i>) Genomics Data 12, 155-156. doi:10.1016/j.gdata.2017.05.010.</p> <p>Lehsten, V., Wiik, L., Hannukkala, A., Andreasson, E., Chen, D., Ou, T., Liljeroth, E., Lankinen, Å., & Grenville-Briggs, L.J. (2017) Earlier occurrence and increased explanatory power of climate for the first incidence of potato late blight caused by <i>Phytophthora infestans</i> in Fennoscandia. PLoS One 12(5): e0177580</p> <p>Other Publications</p> <p>Grenville-Briggs LJ, (2016) Oomycete Diseases in Forestry and Agriculture. News and Views, Scandinavian Journal of Forestry Research 31 233-236.</p> <p>Grenville-Briggs & Andreasson (2016). http://www.sydsvenskan.se/2016-08-20/framsteg-pa-potatisakern</p>

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7. Other practical outputs (e.g. websites, policy recommendations, conferences, large-scale project applications etc.)

During 15-17 June 2016 we hosted the international oomycete community in Malmö for the annual Oomycete Molecular Genetics Network (OMGN) Conference. All Nordic partners from the NKJ-SNS network were encouraged to attend and we furthermore arranged a specific satellite meeting, dinner and social networking event on the 14th June 2016 for the Nordic Network.

During this network the major oomycete problems in the Nordics were discussed as were the different approaches taken by those working in either forestry related research disciplines or more agriculture and horticulture related research disciplines. A strategy for sharing data, protocols and for preparing collaborative joint funding applications was agreed upon.

As many of the Nordic network as possible also met at the OMGN and Fungal Genetics Conferences in March 2017 in Asilomar, CA, USA to continue to discuss and prepare joint funding applications and data sharing platforms.

Through the SNS-NKJ network we were able to establish a consortium to make an application to the EU for a Marie Curie Innovative Training Networks project with SLU as coordinators. The Norwegian network partners were full beneficiaries in the application and the Finnish network partners, associated partners in the EU network.

The EU project builds on the SNS-NKJ network aims and discussions that were held at the main networking meeting in 2016 and is therefore a broad project that is build around cross-disciplinary interaction between agriculture, forestry and aquaculture. The project entitled "PROTECTA: Pathogen-informed Resistance to Oomycete diseases in Ecosystems, Agriculture and Aquaculture" was funded at the beginning of 2018, after 2 rounds of resubmission.

8. Specify the conclusions of the network (maximum 500 characters) for possible use in SNS News and Views

The Nordic Network for pathogen informed control of oomycete diseases in forestry and agriculture has brought together researchers from across Nordic countries, with an interest in combating diseases caused by Oomycetes (fungal-like organisms). It facilitated a dialogue between researchers and stakeholders in forestry and agriculture, and has brought together a critical mass of researchers to work across the boundaries of these disciplines at the frontiers of oomycete-host biology. As a result, a new multidisciplinary EU Marie Curie ITN project, PROTECTA, will start in 2018.

9. Specify how the network has been beneficial in a Nordic setting:

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In a Nordic setting the network allowed us to connect together across different disciplines and host systems and also provided a critical mass of researchers that allowed us to develop new funding applications and larger collaborations with European and other international researchers. We were also able to compile common protocols that are applicable to Nordic field conditions for sampling, scoring and therefore directly comparing data from our different laboratories. We were also able to publish papers using some of these data, e.g. Lehsten et al PloS One, 2017 which brought together data from Swedish and Finnish potato late blight trials to develop new models for the first incidence of this disease in field conditions in these similar climates.

With this funding and a Formas Conference grant of 92 000 SEK, we were able to hold a Nordic Network Meeting, and the OMGN2016 in Malmö. Holding the international conference in a Nordic setting was very important for us to attract international attention to our work and to allow the development of larger collaborations. We put our Universities in the Nordics on the International Oomycete Research Map!

10. [Download](#), fill in and return the 'policy brief' template, which will be used for spreading information about the network and its findings in a popular scientific manner.

11. List the participating countries:

Nordics:

Sweden

Norway

Finland

Denmark

And associated countries who later joined the wider discussions for joint EU funding applications and data sharing:

UK

France

The Netherlands

USA

Italy

12. List the participating sectors:

Agricultural research

Horticultural research

Plant breeding

Plant protection

Forest ecology

Plant breeding industry sector

National Agriculture Board (policy makers)

13. Number of participants in the network activities

	Women	Men	Other
Young researchers / PhD students	5	3	

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Senior academics	9	18	
Stakeholders	3	2	
Communicators	1		
Total number of participants	18	23	

14. Economy

Specify currency:	SEK
Received grant from SNS & NKJ:	183 000

Costs. Please report costs without VAT.

	SNS – NKJ funding	External funds	Total	SNS – NKJ funding (% of total)
Travel and hotel	25557			100%
Meeting costs	154172	92000	246172	62%
Communication	3270	1098	4368	75%
Consumables				
Salary				
(Other costs (specify below))				
Total SUM	183000			

Economic result (deficit or surplus):

We did not have a deficit or surplus due to combining external money and SNS funding for our activities.

Comments to the economic reporting:

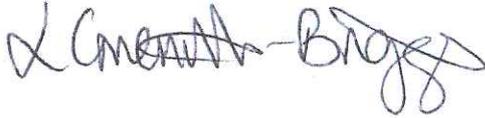
We used external funds to allow us to hold both a Nordic and international meeting side by side, to increase scientific significance and exposure of Nordic researchers.

We used the money to allow travel of Nordic researchers to our two meetings in 2016 in Sweden and for two researchers (the coordinator and a participating researcher from SLU) to then travel to another international meeting in 2017 to allow the development of a large EU project on the topic. Communication money was used to fund open access publication of our data.

I hereby declare that the above statements are true to the best of my knowledge

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Main applicant signature, place and date



Laura Grenville-BriggsSwedish University of Agricultural Sciences, Alnarp. 28/02/2018

(Signature)

(Institution)

(Day / Month / Year)

Signature of head of research institution



(Signature)

Plant Protection Biology, 28/02/2018
SLU Alnarp

(Institution)

(Day / Month / Year)

Åsa Lankinen, deputy head of dept.

(Printed name, function)