



DSPS Nyhedsbrev nr. 5, februar 2020

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DSPS aktiviteter forår 2020

Tirsdag den 25. februar 2020 kl 17.00-19.00: Billedaften

Selskabets medlemmer viser billeder af sygdomme og/eller skadedyr eller viser interessante resultater fra forskningsprojekter. Indlæggene, der kan være på dansk eller engelsk, varer mellem 5 og 15 minutter.

Members show images of diseases or pests or show interesting results from research projects. The presentations in Danish or English last between 5 and 15 minutes.

Invitation og nærmere information er udsendt. *Invitation and further information has been*

Tirsdag den 25. februar 2020 kl 19.00: Generalforsamling

Invitation og nærmere information udsendes i februar 2019.

Location: Department of Geosciences and Natural Resource Management, University of Copenhagen, Rolighedsvej 23, 1958 Frederiksberg C, Meeting room von Langen.

Onsdag 10. juni 2020: Sommerudflugt til Sveriges Lantbruksuniversitet i Alnarp.

Fællesarrangement med Svensk Växtpatologisk Förening.

Udvalgte nationale og internationale aktiviteter

- Write Now: A three day residential practical workshop on popular writing about plant health 7 – 9 April, 2020, Oxon Hoath, Kent. **See attachment.**
- 7th International Congress of Nematology 3- 8 May, 2020, Antibes Juan-les-Pins, France Website: www.alphavisa.com/icn/2020/index.php
- 2020 BGRI Technical Workshop 1-4 June, 2020, Norwich, UK. Website: <https://globalrust.org/BGRI2020>
- 14th International Conference on Plant Pathogenic Bacteria (14th ICPPB)7 - 12 June, 2020, Assisi, Italy Website: <http://www.icppb2020.com> (www.icppb2020.com)
- XXVI International Congress of Entomology, Helsinki, Finland, July 19-24, 2020 Website: <https://ice2020helsinki.fi/>
- International Plant Health Conference "Protecting Plant Health in a changing world", Helsinki, Finland, 5-8 October 2020. Website: <http://www.fao.org/plant-health-2020/events/events-detail/en/c/1250609/>
- 13th EFPP-conference 2020 in U.K. and BSPP Annual meeting, 7-9. December 2020. Birmingham, UK.
- 12th International Congress of Plant Pathology (ICPP2023) 20 August - 25 August, 2023, Lyon, France. Website: www.icpp2023.inviteo.fr. Temaet for kongressen er “ONE HEALTH for all Plants, Crops and Trees”.

Se flere konferencer i ISPP Newsletters nedenfor.

Links til International Society for Plant Pathology Newsletters

https://www.isppweb.org/newsletters/pdf/49_12.pdf

Læs bla. POTENTIAL CLIMATE CHANGE EFFECTS ON PLANT PATHOGENS AND CROP DISEASE RISKS

https://www.isppweb.org/newsletters/pdf/49_10.pdf

Læs bla. READY-TO-EAT SALAD CROPS: A PLANT PATHOGEN'S HEAVEN

https://www.isppweb.org/newsletters/pdf/49_11.pdf

Læs bla. ANTS SUPPRESSING PLANT PATHOGENS

https://www.isppweb.org/newsletters/pdf/50_1.pdf

Læs bla. ISPP-REPORT FOR 2019

https://www.isppweb.org/newsletters/pdf/50_2.pdf

Læs bla. DRONE TECHNOLOGY DETECTS TWO TOMATO DISEASES

International Plant Health Year 2020

De Forenede Nationer (FN) har erklæret 2020 for International Plant Heath Year. Sunde planter er grundlaget for at liv, og FAO og andre organisationer ser det som en enestående mulighed for at gøre politikere og befolkningen opmærksom på betydningen af sunde planter, og på hvordan sunde planter kan afhjælpe sult, fattigdom, beskytte miljøet og fremme økonomiske udvikling.

FAO udtrykker det på denne måde på deres hjemmeside (<http://www.fao.org/plant-health-2020/about/en/>):

PROTECTING PLANTS, PROTECTING LIFE

Plants are the source of the air we breathe and most of the food we eat, yet we often don't think about keeping them healthy. This can have devastating results. FAO estimates that up to **40% of food crops are lost due to plant pests** and diseases annually. This leaves millions of people without enough food to eat and seriously damages agriculture - the primary source of income for rural poor communities.

Plant health is increasingly under threat. **Climate change**, and human activities, have altered ecosystems, reducing biodiversity and creating **new niches where pests can thrive**. At the same time, international **travel and trade** has tripled in volume in the last decade and can **quickly spread pests and diseases** around the world causing great damage to native plants and the environment.

Protecting plants from pests and diseases is far more cost effective than dealing with full-blown plant health emergencies. Plant pests and diseases are often impossible to eradicate once they have established themselves and managing them is time consuming and expensive. Prevention is critical to avoiding the devastating impact of pests and diseases on agriculture, livelihoods and food security and many of us have a role to play.

Se også IYPH 2020 promotional video: <https://www.youtube.com/watch?v=jixGX2vKWmY>

DSPS bestyrelse har overvejet forskellige aktiviteter for at markere International Plant Health Year 2020. Gode forslag fra DSPS medlemmer er meget velkomne.

Billeder fra DSPS arrangementer

Rundvisning på Statens Naturhistoriske Museums samlinger - fokus på plantesygdomme og skadedyr



Nyt fra Nomenklaturudvalgene

I løbet af 2019 udkom én Zoologiske Meddelelse i april (nr. 8) og to Plantepatologiske Meddelelser i henholdsvis marts (nr. 28) og november (nr. 29). De ligger på Selskabets hjemmeside: www.dsps.au.dk

Nyt om plantesygdomme og skadedyr

Rodhalsgaller på rødder i jorden ved Magnus Gammelgaard

13. oktober 2019 fandt en af Haveselskabets medarbejdere, i forbindelse med gravning med spade nogle runde, næsten håndbold store, uregelmæssige kugler i jorden i en have i Nordsjælland. Ved nærmere undersøgelse kunne det konstateres, at materialet var træagtigt og nogle steder beklædt med en nærmest barklignende struktur.



Foto: Anja Barfod Haveselskabet



Foto: Anjas veninde

Det blev oplyst, at der i den pågældende have fandtes gamle stød, vist nok af egetræer, så det er sandsynligt at det er rødder fra disse, hvorpå knoldene er opstået.

Fra starten har der været en opfattelse af, at knoldene er såkaldte rodhalsgaller forårsaget af jordbakterien *Agrobacterium tumefaciens*. Størrelsen har dog vakt forundring blandt flere forskere både i ind- og udland.

Efterfølgende har jeg selv foretaget gennemskæring af den store knold og taget flere fotos.



Foto: Magnus Gammelgaard



Gennemskåret rodhalsgalle

Foto: Magnus Gammelgaard

På ovenstående foto ses tydelig at galledannelsen er forekommet omkring en rod.

Det må nok konkluderes at der er tale om rodhalsgaller (Crown Galls) fremkommet som et resultat af *Agrobacterium tumefaciens*. Vi kan derimod ikke fastslå fra hvilken træart rødderne stammer.

Tomato brown rugose fruit virus (ToBRFV) ved Ednar G. Wulff

Tomato brown rugose fruit virus (ToBRFV) er et voksende problem i Europa. Patogenet tilhører Tobamovirus-gruppen og blev først identificeret på kontinentet i 2018 i Tyskland. I 2019 blev der

rapporteret om enkeltudbrud i flere europæiske lande, herunder Italien, Tyrkiet, Storbritannien, Holland, Grækenland og Spanien. Disse udbrud resulterede i indførelsen af EU's hasteforanstaltninger (fra november 2019) for at forhindre introduktion og spredning af virussen (Commission Implementering Decision EU 2019/1615). Hasteforanstaltningerne forpligter EU-landene til at gennemføre årlige undersøgelser for patogen (overvågning), officiel prøveudtagning og test af frø, der flytter ind i og inden for EU.

ToBRFV kan inficere tomater (*Solanum lycopersicum*) og peber (*Capsicum annuum/Capsicum sp.*). Under eksperimentelle forhold har andre arter af Solanaceae og *Chenopodium murale* også udviklet symptomer og / eller fungeret, som et reservoir for virussen. I tomat kan ToBRFV forårsage rynker og brune og gule pletter på både blade (Fig. 1) og frugter. Indsnævring af blade (Fig. 2), deformering og grønne stribes af frugter er også blevet rapporteret (Fig. 3A og B). I *Capsicum* er symptomerne ikke endnu vel beskrevet, men ligner symptomerne på tomat. Spredningsmekanismer inkluderer inficeret formeringsmateriale, kontakt fra plante til plante, kontakt med inficerede redskaber, hænder, tøj, jord og insekter. ToBRFV kan overvinde al den nuværende kendte genetiske resistens i tomat, herunder Tm-22-resistensgenet, der bruges mod tobamovirus.



Figur 1: Klorosis (gule pletter) på tomatblade forårsaget af ToBRFV (Foto: © NPPO-NL).



Figur 2: Indsnævring af tomatblade forårsaget af ToBRFV (Foto: © NPPO-NL)

Fig. 3A



Fig. 3B)



Fig. 3. Typical fruit symptoms with yellow spots and marbling

Photo: © Dr Aviv Dombrovsky (Fig 3A) and © Prof. Salvatore Davino (Fig. 3B) Courtesy of EPPO.

Udvalgte publikationer

1. Kosawang C, Sørensen H, Kjær ED, Dilokpimol A, McKinney LV, Collinge DB, Nielsen LR (2019). Host genotype influence diversity and composition of twig fungal communities of diverse *Fraxinus* species and *F. excelsior* genotypes with contrasting resistance to ash dieback. *Fungal Biology* 42: 100859
<https://doi.org/10.1016/j.funeco.2019.08.003>
2. Latz, MAC, Jensen B, Collinge DB, Jørgensen HJL (2020) Identification of two endophytic fungi that control *Septoria tritici* blotch in the field, using a structured screening approach. *Biological Control* 141: 104128 <https://doi.org/10.1016/j.bioc.2019.104128>
<https://www.sciencedirect.com/science/article/pii/S1049964419304645>
3. Rojas EC, Sapkota R, Jensen B, Jørgensen HJL, Henriksson T, Nistrup-Jørgensen L, Nicolaisen M, Collinge DB (2019) Fusarium Head Blight modifies fungal endophytic communities during infection of wheat spikes. *Microbial Ecology* <https://doi.org/10.1007/s00248-019-01426-3>
4. Sarrocco S, Herrera-Estrella A, Collinge DB (2020) Editorial: Plant Disease Management in the Post-Genomic Era: from Functional Genomics to Genome Editing. *Front. Microbiol.* *Front. Microbiol.* 11:107. doi: 10.3389/fmicb.2020.00107

Vi opfordrer alle medlemmer til at komme med bidrag til Nyhedsbrevet, f.eks. henvisninger til konferencer, interessante faglige nyheder og stillingsopslag, der kan have interesse for Selskabets medlemmer.

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WRITE NOW!

A three day residential practical workshop on popular writing about plant health

7 – 9 April, 2020 | Oxon Hoath, Kent



WRITE NOW! is aimed at postgraduate students and early career researchers. We welcome applications from plant pathologists and others with a shared interest in communicating the successes, challenges and future of plant health. The workshop is inspired by the International Year of Plant Health and is part of the BSPP's on-going drive to provide practical training.

Based at Oxon Hoath, a lovely country house in Kent, you'll learn how to develop writing skills and use photos to best effect. We'll discuss a wide range of publishing formats, from short illustrated articles to blogs, educational and advisory material (fact sheets).

Course tutors Eric Boa and Jeffery Bentley will work closely with each participant to convey clear messages in an attractive way. We'll share our wide experience in helping people express themselves and how to showcase their work and that of others in compelling narratives.

We'll consider all aspects of plant health, from basic to applied research, practical aspects and policy issues. Potential topics to write about could include: the threat of new pests and diseases; the potential of new technologies; the significance of climate change to plant health; translating scientific information into practical advice for farmers; or the impact of major outbreaks on people, agriculture and the natural environment.

We're open to all ideas and will discuss what you'll write about at the workshop. You'll be given short practical exercises and we'll share tips on writing, photography and design. At the end of the workshop we'll combine short articles you've written into a book. We hope to publish a number of blogs on the BSPP website. We will print copies of the book for each of you and discuss how to do this on a limited budget.

Guest contributors to the workshop include Chris Young, the editor of *The Garden*. He'll talk about his experiences of managing the UK's leading horticultural magazine, commissioning articles and publishing in general. We're also hoping, subject to availability, to have an internationally recognized photographer share tips and insights on using photographs to tell stories.

Interested? Come and join us! See below for more details.

Dates and times: 7 – 9 April (start after lunch on Tuesday, finish early afternoon Thursday)

Venue: [Oxon Hoath](#), Hadlow, nr Tonbridge, Kent. Good road, rail and air links (Gatwick).

Participants: maximum of 17 places available

Cost: £220 for BSPP members; £260 for non-members. Includes full board and all materials.

Booking: available shortly on the BSPP website. You can also book directly with Eric Boa.

Contact details: Eric Boa is based in London. **email:** e.boa@abdn.ac.uk; **mobile:** 07729277623.

Further reading: see the ResearchGate accounts of Eric Boa and Jeffery Bentley and search for *Revealing Success*; and *A Passion for Video*. Jeffery Bentley blogs regularly at [www.agroinsight.com](#). See also the peer-reviewed paper: 'The snowman outline: facts sheets by extensionists for farmers' and other articles we've published over the years.