

# Bibliographie / Sitographie

## Table des matières

|                  |    |
|------------------|----|
| Musique:.....    | 2  |
| Episode 1 .....  | 2  |
| Episode 2 .....  | 6  |
| Episode 3 .....  | 8  |
| Episode 4 .....  | 12 |
| Episode 5 .....  | 14 |
| Episode .....    | 21 |
| Episode 7 .....  | 24 |
| Episode 8 .....  | 26 |
| Episode 9 .....  | 29 |
| Episode 10 ..... | 31 |
| Episode 11 ..... | 36 |

# Musique:

Générique: I dunno by grapes Ft: J Lang, Morusque [dig.ccmixter.org/files/grapes/16626](https://dig.ccmixter.org/files/grapes/16626)

(c) 2008 Licensed under a Creative Commons Attribution (3.0) license.

The Long Goodbye by John Pazdan (c) copyright 2008 Licensed under a Creative Commons Attribution license. [http://dig.ccmixter.org/files/flatwound/14476](https://dig.ccmixter.org/files/flatwound/14476)

## Episode 1

**S = Slide**

**S1** : photo crédit T. Guillemette

**S2** :

[Casadevall A. Don't Forget the Fungi When Considering Global Catastrophic Biorisks, Health Security, 15, : 4, 2017, doi: 10.1089/hs.2017.0048 – p1](https://www.researchgate.net/publication/318687665) ou

[https://www.researchgate.net/publication/318687665 Don't Forget the Fungi When Considering Global Catastrophic Biorisks](https://www.researchgate.net/publication/318687665)

[Lange L. The importance of fungi and mycology for addressing major global challenges, IMA Fungus, 5\(2\): 463–471 2014, doi:10.5598/imafungus.2014.05.02.10 – p463](https://www.researchgate.net/publication/270515472) ou

[https://www.researchgate.net/publication/270515472 The importance of fungi and mycology for addressing major global challenges](https://www.researchgate.net/publication/270515472)

[NATURE MICROBIOLOGY 2, 17120 \(2017\) | DOI: 10.1038/nmicrobiol.2017.120 – p1](https://doi.org/10.1038/nmicrobiol.2017.120)

[de Mattos-Shipley K.M.J., Ford K.L., Alberti F., Banks A.M., Bailey A.M., and Foster G.D. The good, the bad and the tasty: The many roles of mushrooms, Studies In Mycology 85: 125–157, 2016 http://dx.doi.org/10.1016/j.simyco.2016.11.002 – p125](https://doi.org/10.1016/j.simyco.2016.11.002)

Une alternative possible:

[https://www.researchgate.net/publication/331037083 The Still Underestimated Problem of Fungal Diseases Worldwide](https://www.researchgate.net/publication/331037083)

**S3** : T. Guillemette

**S4** : T. Guillemette

**S5** : T. Guillemette

**S6** :

<https://media.giphy.com/media/l396StTYdbVOM1n4Q/giphy.gif>

<https://media.giphy.com/media/3o7TKoZJqXlfsCXLLq/giphy.gif>

<https://media.giphy.com/media/3o7bu0KlcusWqaJwVW/giphy.gif>

<https://media.giphy.com/media/gO48yi3X6WCHe/giphy.gif>

<https://media.giphy.com/media/LMtX6kfakVPAgcsYA9/giphy.gif>

<https://media.giphy.com/media/3q1tqliuRUiARk72Zn/giphy.gif>

**S7** : <https://www.dailymotion.com/video/x53dicc>

**S8** :

[https://commons.wikimedia.org/wiki/File:Agaricus semotus section.jpg](https://commons.wikimedia.org/wiki/File:Agaricus_semotus_section.jpg)

[https://commons.wikimedia.org/wiki/File:Agaricus fuscofibrillosus spores 1000x.JPG](https://commons.wikimedia.org/wiki/File:Agaricus_fuscofibrillosus_spores_1000x.JPG)

**S9** : T. Guillemette

**S10** : T Guillemette adapté de

[https://commons.wikimedia.org/wiki/File:Figure 24 02 07.png](https://commons.wikimedia.org/wiki/File:Figure_24_02_07.png)

**S11** : T. Guillemette

**S12** : T. Guillemette

**S13** : T Guillemette

**S14** : <https://www.flickr.com/photos/demartigny/6163778363>

**S15** :

Sterflinger K., Tesei D., Zakharova K. Fungi in hot and cold deserts with particular reference to microcolonial fungi, 2012 Fungal Ecology, 5 (4), 453-462 – p453, ou  
[https://www.researchgate.net/publication/230577497 Fungi in hot and cold deserts with particular reference to microcolonial fungi](https://www.researchgate.net/publication/230577497_Fungi_in_hot_and_cold_deserts_with_particular_reference_to_microcolonial_fungi)

Podaxis pistillaris : [https://commons.wikimedia.org/wiki/File:2010-04-18 Podaxis pistillaris cropped.jpg](https://commons.wikimedia.org/wiki/File:2010-04-18_Podaxis_pistillaris_cropped.jpg)

**S16** : Lange L. The importance of fungi and mycology for addressing major global challenges, IMA Fungus, 5(2): 463–471 2014, doi:10.5598/imafungus.2014.05.02.10- p469

[https://www.researchgate.net/publication/270515472 The importance of fungi and mycology for addressing major global challenges](https://www.researchgate.net/publication/270515472_The_importance_of_fungi_and_mycology_for_addressing_major_global_challenges)

**S17** : orange : <https://pixabay.com/fr/photos/moule-la-croissance-de-moisissures-3926174/>

**S18** :

[https://en.wikipedia.org/wiki/File:Puffballs emitting spores.jpg](https://en.wikipedia.org/wiki/File:Puffballs_emitting_spores.jpg)

<https://i.gifer.com/Rpgk.gif>

**S20:** T. Guillemette

**S21 :**

Lascaux : Bastian F. and Alabouvette C., Lights and shadows on the conservation of a rock art cave: The case of Lascaux Cave, 2009, International Journal of Speleology, 38 (1), 55-60.

Bologna (Italy). ISSN 0392-6672. DOI: 10.5038/1827-806X.38.1.6 ou

[https://www.researchgate.net/publication/26578717\\_Lights\\_and\\_shadows\\_on\\_the\\_conservation\\_of\\_a\\_rock\\_art\\_cave\\_The\\_case\\_of\\_Lascaux\\_Cave](https://www.researchgate.net/publication/26578717_Lights_and_shadows_on_the_conservation_of_a_rock_art_cave_The_case_of_Lascaux_Cave)

pain : <https://pixabay.com/fr/photos/l-%C3%A2ge-bact%C3%A9ries-bio-la-biologie-1238317/>

Mérule : [https://commons.wikimedia.org/wiki/File:Serpula\\_lacrimans.jpg](https://commons.wikimedia.org/wiki/File:Serpula_lacrimans.jpg)

Grottes de Lascaux : [La grotte de Lascaux victime des champignons](#)

**S22 :** Dermatophytose [https://fr.wikipedia.org/wiki/Dermatophytose\\_de\\_la\\_peau\\_glabre](https://fr.wikipedia.org/wiki/Dermatophytose_de_la_peau_glabre)

Aspergillome : <https://fr.wikipedia.org/wiki/Aspergillome>

Nématode : [https://microbewiki.kenyon.edu/index.php/File:Ring\\_trapping-2.jpg](https://microbewiki.kenyon.edu/index.php/File:Ring_trapping-2.jpg)

**S23 :**

Ustilago maydis : [https://commons.wikimedia.org/wiki/File:Ustilago\\_maydis\\_001.JPG](https://commons.wikimedia.org/wiki/File:Ustilago_maydis_001.JPG)

Botrytis cinerea :

[https://fr.wikipedia.org/wiki/Botrytis\\_cinerea#/media/Fichier:Raisin\\_botrytis%C3%A9.JPG](https://fr.wikipedia.org/wiki/Botrytis_cinerea#/media/Fichier:Raisin_botrytis%C3%A9.JPG)

Tavelure : T. Guillemette

**S24 :**

Nutritional Yeast Flakes : <https://uk.openfoodfacts.org/product/5010251977117/yeast-flakes-morrison>

Quorn : <https://fr.openfoodfacts.org/produit/5019503027471/steak-hache-quorn>

Culture sur bois : <https://pixabay.com/nl/photos/paddestoelen-oester-schimmels-5929124/>

**S25 :**

Moût :

[https://commons.wikimedia.org/wiki/File:Pinot\\_noir\\_grapes\\_starting\\_to\\_ferment.jpg](https://commons.wikimedia.org/wiki/File:Pinot_noir_grapes_starting_to_ferment.jpg)

Affinage : [https://commons.wikimedia.org/wiki/File:Affinage\\_de\\_Saint-Nectaire\\_\(fromage\).JPG](https://commons.wikimedia.org/wiki/File:Affinage_de_Saint-Nectaire_(fromage).JPG)

Icon biodiesel : <https://thenounproject.com/term/biofuel/1931853/>

**S26 :**

<https://commons.wikimedia.org/wiki/File:Antibiogramme.jpg>

**S27 :**

Insecte :

[https://commons.wikimedia.org/wiki/File:Entomophthora\\_muscae\\_on\\_Scathophaga\\_stercoraria\\_\(lateral\\_view\).jpg](https://commons.wikimedia.org/wiki/File:Entomophthora_muscae_on_Scathophaga_stercoraria_(lateral_view).jpg)

Arbuscule : [R. Larry Peterson and Hugues B. Massicotte, Exploring structural definitions of mycorrhizas, with emphasis on nutrient-exchange interfaces, Can. J. Bot. 82: 1074–1088 \(2004\) doi: 10.1139/B04-071 – p1076](#)

Confrontation : F. Bastide

**S28 :**

[https://commons.wikimedia.org/wiki/File:Electronic\\_waste\\_at\\_Agbogbloshie,\\_Ghana.jpg](https://commons.wikimedia.org/wiki/File:Electronic_waste_at_Agbogbloshie,_Ghana.jpg)  
<https://www.hippopx.com/en/query?q=pollution>

# Episode 2

**S1** : T Guillemette

**S2** : T Guillemette

**S3** : classification plantes : <http://www.1ruevintage.com/affiches-scolaires-botaniques-rossignol/> /  
Liné : [https://snl.no/Carl\\_von\\_Linn%C3%A9](https://snl.no/Carl_von_Linn%C3%A9) / Haeckel  
[https://fr.wikipedia.org/wiki/Ernst\\_Haeckel#/media/Fichier:Ernst\\_Haeckel\\_1860.jpg](https://fr.wikipedia.org/wiki/Ernst_Haeckel#/media/Fichier:Ernst_Haeckel_1860.jpg)

**S4** : Whittaker [https://en.wikipedia.org/wiki/Robert\\_Whittaker\\_\(ecologist\)#/media/File:Whittaker-Robert-H-1920-1980.jpg](https://en.wikipedia.org/wiki/Robert_Whittaker_(ecologist)#/media/File:Whittaker-Robert-H-1920-1980.jpg)

**S5** : T. Guillemette

**S6** : cellules prokaryotes : / eukaryotes microscopie :

Prokariotic cell: Ultrastructure imaging of Pseudomonas aeruginosa lawn biofilms and eradication of the tobramycin-resistant variants under in vitro electroceutical treatment, Lochab V, Jones TH, Dusane DH, Peters CW, Stoodley P, Wozniak DJ, Subramaniam VV, Prakash S (2020) 10:9879  
<https://doi.org/10.1038/s41598-020-66823-y> (CC – BY)

[https://www.researchgate.net/publication/333662283\\_Comprehensive\\_analysis\\_of\\_full\\_genome\\_sequence\\_and\\_Bd-milRNA\\_target\\_mRNAs\\_to\\_discover\\_the\\_mechanism\\_of\\_hypovirulence\\_in\\_Botryosphaeria\\_dotheida\\_strains\\_on\\_pear\\_infection\\_with\\_BdCV1\\_and\\_BdPV1](https://www.researchgate.net/publication/333662283_Comprehensive_analysis_of_full_genome_sequence_and_Bd-milRNA_target_mRNAs_to_discover_the_mechanism_of_hypovirulence_in_Botryosphaeria_dotheida_strains_on_pear_infection_with_BdCV1_and_BdPV1)

**S7** : sclérotés / sporophore : T. Guillemette

<https://www.flickr.com/photos/nebarnix/309940689>

<https://www.flickr.com/photos/zeissmicro/21697760560>

**S9** : T. Guillemette adapté de Silar et Malagnac 2013

**S10** : T. Guillemette adapté de Silar et Malagnac 2013

**S11**: Photos T. Guillemette

**S12** :

[https://www.researchgate.net/publication/234000135\\_Parallels\\_in\\_Intercellular\\_Communication\\_in\\_Oomycete\\_and\\_Fungal\\_Pathogens\\_of\\_Plants\\_and\\_Humans](https://www.researchgate.net/publication/234000135_Parallels_in_Intercellular_Communication_in_Oomycete_and_Fungal_Pathogens_of_Plants_and_Humans)

**S14 et S15**: T. Guillemette

**S18** : <https://gzahn.github.io/mycology/>

State of the World's Fungi 2018 1. Definition and diversity, Paul Cannona, Begoña Aguirre-Hudsona, M. Catherine Aimeb, A. Martyn Ainswortha, Martin I. Bidartondoac, Ester Gayaa, David Hawkswortha,d,e, Paul Kirka,f, Ilia J. Leitcha, Robert Lückingg - p7

**S19:** [State of the World's Fungi 2018 2. Fungal tree of life, Ester Gayaa , Pepijn W. Kooija , Bryn T. M. Dentingerb, Igor V. Grigorievc, László G. Nagyd, Jason Stajiche, Timothy Cokera, Ilia J. Leitcha - p15 et 17](#)

**S21 :** [State of the World's Fungi 2018 3. New discoveries: Species of fungi described in 2017 Tuula Niskanena, Brian Douglassa, Paul Kirka,b, Pedro Crousc, Robert Lückingd, P. Brandon Mathenye, Lei Caib, Kevin Hydef, Martin Cheeka – p22](#) Demande envoyée : toujours en attente

<https://nph.onlinelibrary.wiley.com/cms/asset/0cdcecb9-edb4-4bd4-bc56-ccc8b905df95/ppp310148-fig-0001-m.jpg>

**S22 :** [https://www.flickr.com/photos/watts\\_photos/33877282964](https://www.flickr.com/photos/watts_photos/33877282964)

**S23 :** <https://nph.onlinelibrary.wiley.com/cms/asset/e32528c0-1931-4464-88cd-c98867278f48/ppp310148-fig-0003-m.jpg>

[State of the World's Fungi 2018 3. New discoveries: Species of fungi described in 2017 Tuula Niskanena, Brian Douglassa, Paul Kirka,b, Pedro Crousc, Robert Lückingd, P. Brandon Mathenye, Lei Caib, Kevin Hydef, Martin Cheeka - p20 et p23](#)

**S24 :**

[State of the World's Fungi 2018 3. New discoveries: Species of fungi described in 2017 Tuula Niskanena, Brian Douglassa, Paul Kirka,b, Pedro Crousc, Robert Lückingd, P. Brandon Mathenye, Lei Caib, Kevin Hydef, Martin Cheeka – p23](#)

**S25 :** T. Guillemette

# Episode 3

**S1** : T. Guillemette

**S2** : T. Guillemette

**S3** : T. Guillemette

**S4** : T. Guillemette adapté de Silar et Malagnac 2013

**S5** : T. Guillemette

**S6 et 7** :

[https://www.researchgate.net/publication/323630402\\_Biochemical\\_Modification\\_of\\_Lignocellulosic\\_Biomass](https://www.researchgate.net/publication/323630402_Biochemical_Modification_of_Lignocellulosic_Biomass)

**S8** :

Champs : T. Guillemette

[https://www.researchgate.net/publication/309094724\\_Phylogeny\\_of\\_anaerobic\\_fungi\\_phylum\\_Neocallimastigomycota\\_with\\_contributions\\_from\\_yak\\_in\\_China](https://www.researchgate.net/publication/309094724_Phylogeny_of_anaerobic_fungi_phylum_Neocallimastigomycota_with_contributions_from_yak_in_China)

**S9** : ongles: T. Guillemette

tubes: [https://commons.wikimedia.org/wiki/File:Trichophyton\\_rubrum\\_colonies\\_800.jpg](https://commons.wikimedia.org/wiki/File:Trichophyton_rubrum_colonies_800.jpg)

vache: [https://commons.wikimedia.org/wiki/File:AyrshireCattle2\\_cropped.png](https://commons.wikimedia.org/wiki/File:AyrshireCattle2_cropped.png)

**S10** :

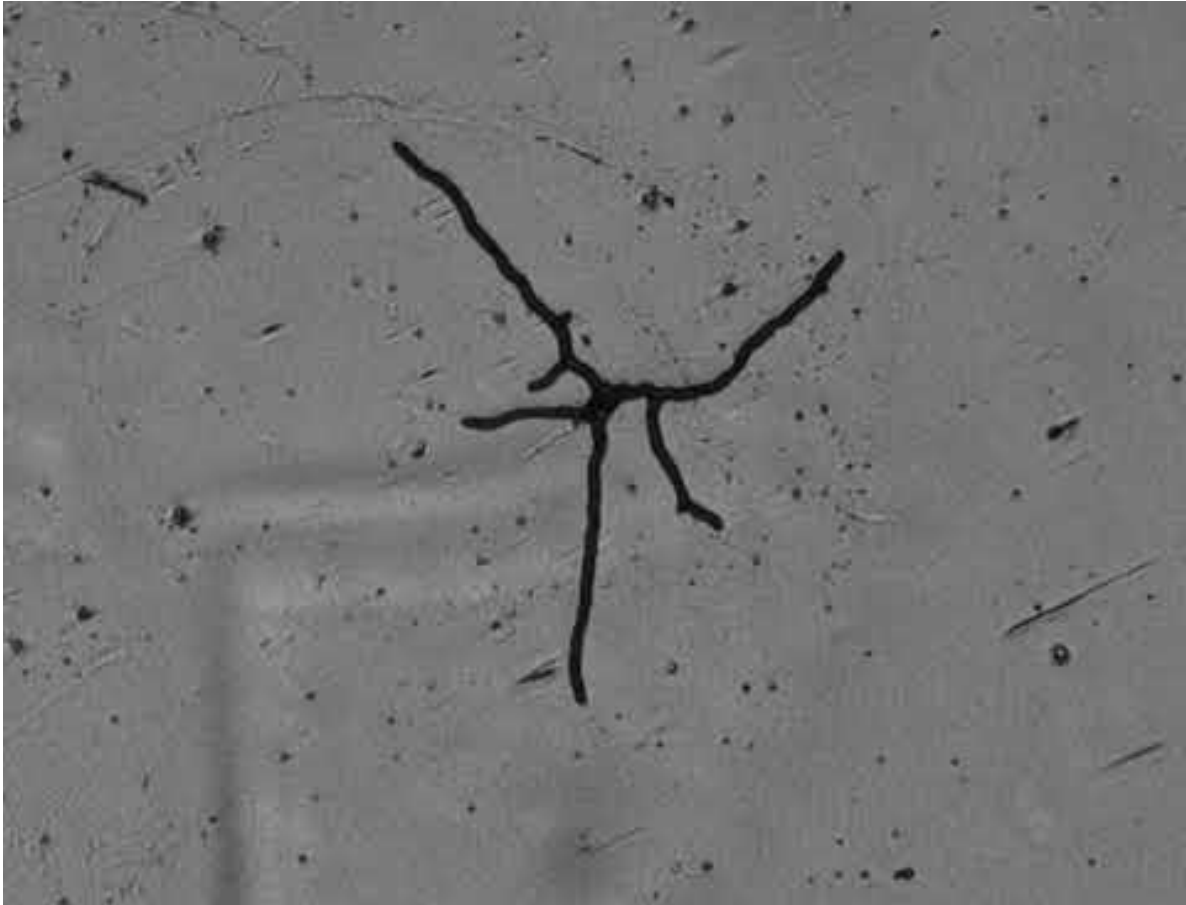
[https://www.researchgate.net/publication/340549890\\_Mycoremediation\\_Expunging\\_environmental\\_pollutants](https://www.researchgate.net/publication/340549890_Mycoremediation_Expunging_environmental_pollutants)

**S11** : T. Guillemette

**S12** : [https://images.slideplayer.com/22/6408577/slides/slide\\_5.jpg](https://images.slideplayer.com/22/6408577/slides/slide_5.jpg) (avec l'autorisation de Pearson France)

**S13** : T. Guillemette

**S14** : T. Guillemette + [Croissance du réseau d'hyphes du champignon \*Podospora anserina\*](#)



**S15** : <http://www.medical-labs.net/wp-content/uploads/2014/04/Forms-of-hyphae-Septate-and-Coenocytic-Hyphae.jpg> (avec l'autorisation de Pearson France)

**S16** : Crédits T. Guillemette

**S18** : <https://media.giphy.com/media/TK63EyuJLrG3mWjhrG/giphy.gif>

**S19** : Crédits T. Guillemette

**S20** : cellule eucariote /

<https://nph.onlinelibrary.wiley.com/doi/pdf/10.1111/j.1469-8137.2006.01868.x>

**S21** :

[https://commons.wikimedia.org/wiki/File:A\\_simplified\\_model\\_for\\_myosin\\_V\\_\(MyoE\)\\_function\\_at\\_the\\_hyphal\\_tip\\_in\\_AspERGillus\\_nidulans\\_-\\_journal.pone.0031218.g009A.png](https://commons.wikimedia.org/wiki/File:A_simplified_model_for_myosin_V_(MyoE)_function_at_the_hyphal_tip_in_AspERGillus_nidulans_-_journal.pone.0031218.g009A.png)

**S22** : T. Guillemette

**S23** : [https://commons.wikimedia.org/wiki/File:WJD138\\_6-25-11\\_\(4\).jpg](https://commons.wikimedia.org/wiki/File:WJD138_6-25-11_(4).jpg)

**S24** : T. Guillemette

**S25:**

[https://fr.wikipedia.org/wiki/Saccharomyces\\_cerevisiae#/media/Fichier:S\\_cerevisiae\\_under\\_DIC\\_microscopy.jpg](https://fr.wikipedia.org/wiki/Saccharomyces_cerevisiae#/media/Fichier:S_cerevisiae_under_DIC_microscopy.jpg)

+ [https://commons.wikimedia.org/wiki/File:Rhodotorula\\_mucilaginosa\\_colonies\\_45.jpg](https://commons.wikimedia.org/wiki/File:Rhodotorula_mucilaginosa_colonies_45.jpg)

+ [https://commons.wikimedia.org/wiki/File:Yeast\\_colonies-closeup.jpg](https://commons.wikimedia.org/wiki/File:Yeast_colonies-closeup.jpg)

**S26:** Crédits T. Guillemette

[57. Budding of Yeast Cells](#)

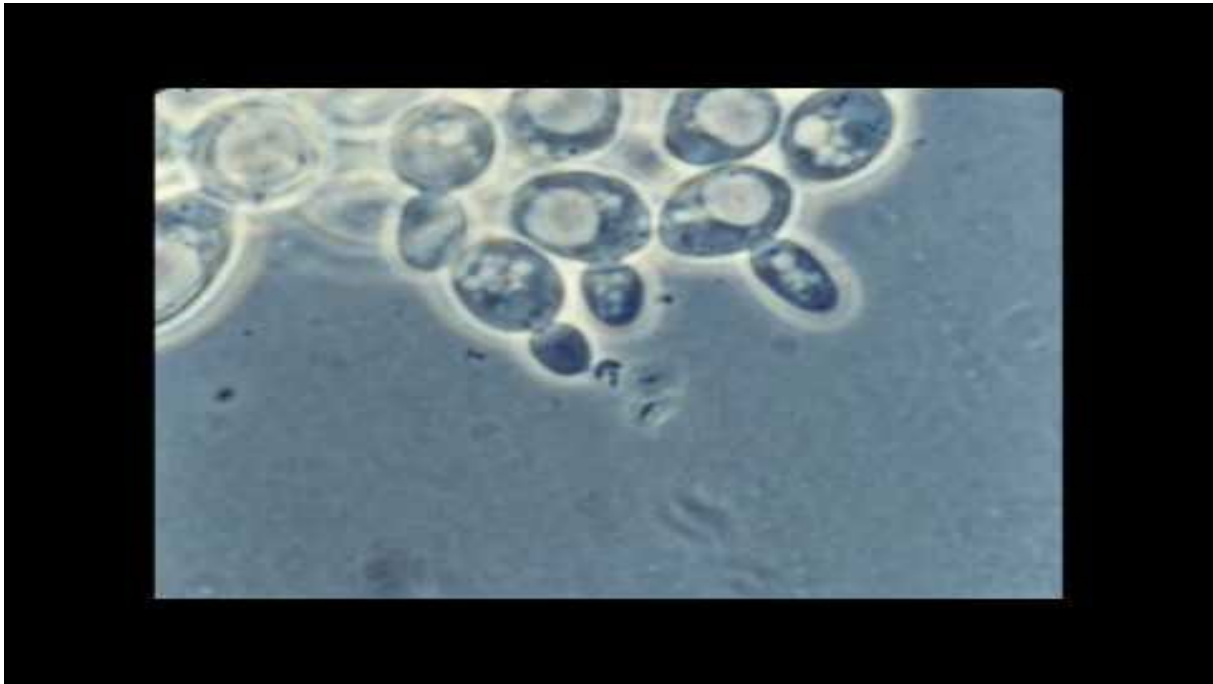
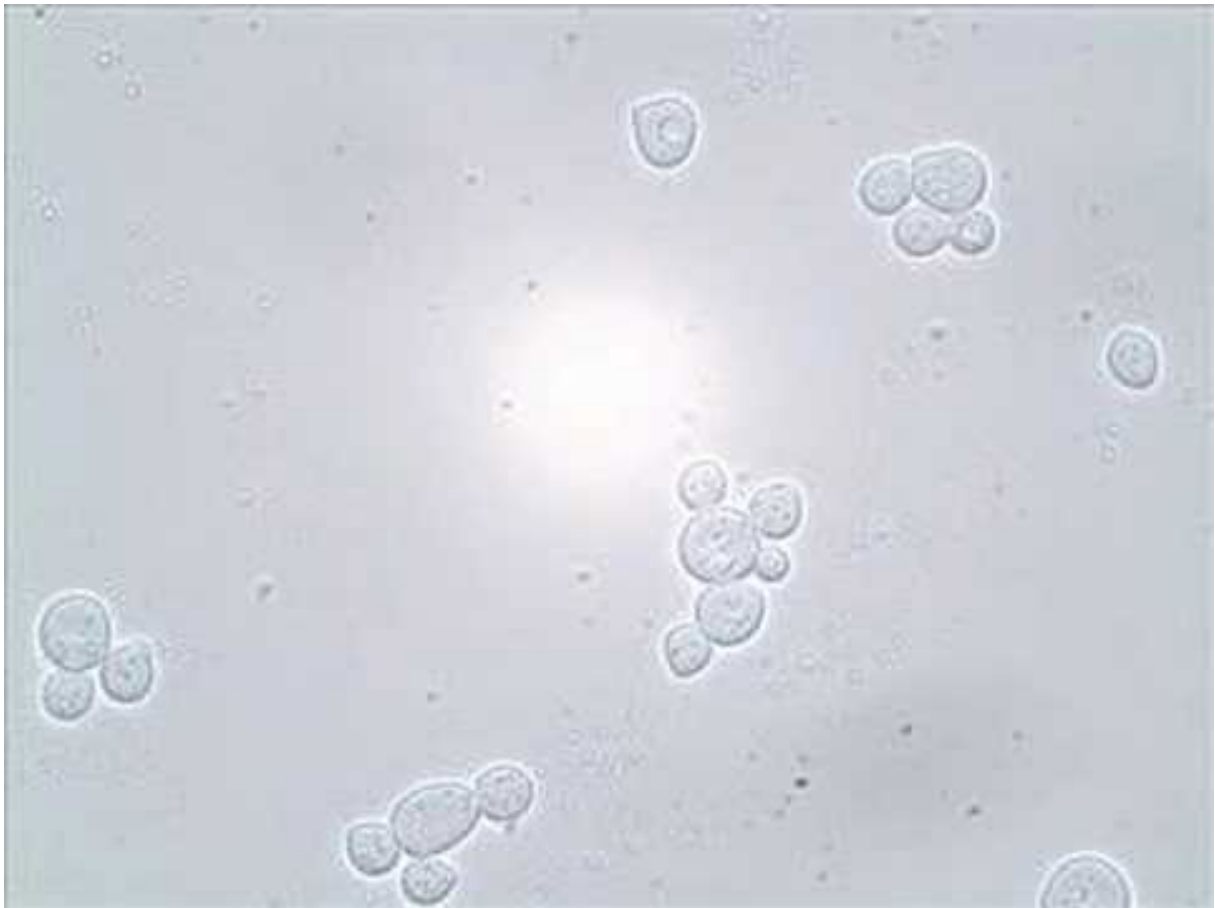


Schéma : [http://modelpop.free.fr/img\\_doc/l\\_1\)\\_b\).html](http://modelpop.free.fr/img_doc/l_1)_b).html)

**S27 :** [Budding and Shmooing - Yeast Reproduction](#)



**S28 :**

[https://commons.wikimedia.org/wiki/File:Candida\\_albicans\\_growing\\_as\\_yeast\\_cells\\_and filamentous \(hypha\) cells.jpg](https://commons.wikimedia.org/wiki/File:Candida_albicans_growing_as_yeast_cells_and_filamentous_(hypha)_cells.jpg)

[https://commons.wikimedia.org/wiki/File:C\\_tropicalis\\_YC466.png](https://commons.wikimedia.org/wiki/File:C_tropicalis_YC466.png)

# Episode 4

**S1** : Crédits. T. Guillemette

**S2** : Crédits. T. Guillemette

**S3**: Crédits. T. Guillemette

**S5** : Crédits. T. Guillemette

**S6** :

Sordaria macrospora :

[https://commons.wikimedia.org/wiki/File:Linear arrangement of ascospores in the asci of the fungus Sordaria macrospora Cropped.jpg](https://commons.wikimedia.org/wiki/File:Linear_arrangement_of_ascospores_in_the_asci_of_the_fungus_Sordaria_macrospora_Cropped.jpg)

Stemphylium vesicarium:

[https://www.researchgate.net/publication/319306943 A taxonomic study on Stemphylium species associated with black sooty head mold of wheat and barley in Iran/figures?lo=1](https://www.researchgate.net/publication/319306943_A_taxonomic_study_on_Stemphylium_species_associated_with_black_sooty_head_mold_of_wheat_and_barley_in_Iran/figures?lo=1)

**S7** : Basidiospores: <https://www.flickr.com/photos/gjshepherd/3145327436/in/photostream/>

**S8**: Zygosporangia: [https://commons.wikimedia.org/wiki/File:Rhizopus zygosporangia2.jpg](https://commons.wikimedia.org/wiki/File:Rhizopus_zygospores2.jpg)

**S9** :

[https://commons.wikimedia.org/wiki/File:Rhizopus microsporus.png](https://commons.wikimedia.org/wiki/File:Rhizopus_microsporus.png)

Chytridiomycètes:

<https://fr.wikipedia.org/wiki/Chytridiomycota>

**S10**:

[https://commons.wikimedia.org/wiki/File:Alternaria brassicicola conidia2.jpg](https://commons.wikimedia.org/wiki/File:Alternaria_brassicicola_conidia2.jpg)  
[https://commons.wikimedia.org/wiki/File:Colletotrichum cariniferi \(10.3897-myckeys.43.25081\) Figure 2.jpg](https://commons.wikimedia.org/wiki/File:Colletotrichum_cariniferi_(10.3897-myckeys.43.25081)_Figure_2.jpg)

**S14** : Crédits T. Guillemette

**S15**:

[https://www.researchgate.net/publication/51880162 Chitin Chitinase Responses and Invasive Fungal Infections/figures?lo=1](https://www.researchgate.net/publication/51880162_Chitin_Chitinase_Responses_and_Invasive_Fungal_Infections/figures?lo=1)

**S 16 -17**:

<https://en.wikipedia.org/wiki/Chitosan>

<https://en.wikipedia.org/wiki/Insect>

**S19** :

<https://www.frontiersin.org/articles/10.3389/fmicb.2019.02294/full> (CC- BY).

**S21:**

<https://www.researchgate.net/publication/26763456> Melanin is an essential component for the integrity of the cell wall of *Aspergillus fumigatus* conidia/figures

**S23:** source figure: <https://academic.oup.com/femsre/article/29/5/877/547705>

**S24 :**

<https://www.researchgate.net/publication/331550940> Assembly and disassembly of *Aspergillus fumigatus* conidial rodlets/figures?lo=1

**S25:** T. Guillemette

**S27 :** State of the World's Fungi 2018. 6. Fungal genomes: Exploring, understanding and utilising their diversity, p42

**S28:**

<https://pixabay.com/fr/illustrations/silhouette-b%C3%A9r%C3%A9-rampant-jeune-rire-1221418/>

<https://pixabay.com/fr/illustrations/search/p%C3%A9tales/>

<https://pixabay.com/fr/vectors/champignon-champignons-nature-1531570/>

**S29:** [https://commons.wikimedia.org/wiki/File:Vitamin D biosynthesis in fungi and animals.svg](https://commons.wikimedia.org/wiki/File:Vitamin_D_biosynthesis_in_fungi_and_animals.svg)

**S30 :** T. Guillemette

# Episode 5

**S1 :** Crédits T. Guillemette

**S2:**

[https://www.researchgate.net/publication/234000135\\_Parallels\\_in\\_Intercellular\\_Communication\\_in\\_Oomycete\\_and\\_Fungal\\_Pathogens\\_of\\_Plants\\_and\\_Humans](https://www.researchgate.net/publication/234000135_Parallels_in_Intercellular_Communication_in_Oomycete_and_Fungal_Pathogens_of_Plants_and_Humans)

**S4:** [https://commons.wikimedia.org/wiki/File:Phytophthora\\_cryptogea.jpg](https://commons.wikimedia.org/wiki/File:Phytophthora_cryptogea.jpg)

**S5 :** T Guillemette

**S6:** cycle T Guillemette

**S7:** vidéo: [Zoospore Release - Phytophthora nicotianae](#)



**S9:**

[https://www.researchgate.net/publication/280491408\\_Phytophythium\\_Molecular\\_phylogeny\\_and\\_systematics/figures?lo=1](https://www.researchgate.net/publication/280491408_Phytophythium_Molecular_phylogeny_and_systematics/figures?lo=1)

**S10:**

[https://www.researchgate.net/publication/324223954\\_Crayfish\\_plague\\_in\\_Japan\\_A\\_real\\_threat\\_to\\_the\\_endemic\\_Cambaroides\\_japonicus/figures?lo=1](https://www.researchgate.net/publication/324223954_Crayfish_plague_in_Japan_A_real_threat_to_the_endemic_Cambaroides_japonicus/figures?lo=1)

[https://www.researchgate.net/publication/322655745\\_Saprolegnia\\_parasitica\\_Isolated\\_from\\_Rainbow\\_Trout\\_in\\_Korea\\_Characterization\\_Anti-Saprolegnia\\_Activity\\_and\\_Host\\_Pathogen\\_Interaction\\_in\\_Zebrafish\\_Disease\\_Model/figures?lo=1](https://www.researchgate.net/publication/322655745_Saprolegnia_parasitica_Isolated_from_Rainbow_Trout_in_Korea_Characterization_Anti-Saprolegnia_Activity_and_Host_Pathogen_Interaction_in_Zebrafish_Disease_Model/figures?lo=1)

**S11:**

[https://commons.wikimedia.org/wiki/File:Phytophthora\\_infestans\\_a1\\_\(1\).jpg](https://commons.wikimedia.org/wiki/File:Phytophthora_infestans_a1_(1).jpg)

[https://commons.wikimedia.org/wiki/File:Phytophthora\\_infestans\\_potato\\_%27Dor%C3%A9%27,\\_aardappelziekte\\_Dor%C3%A9.jpg](https://commons.wikimedia.org/wiki/File:Phytophthora_infestans_potato_%27Dor%C3%A9%27,_aardappelziekte_Dor%C3%A9.jpg)

[https://commons.wikimedia.org/wiki/File:Plasmopara\\_viticola\\_a1\\_\(5\).jpg](https://commons.wikimedia.org/wiki/File:Plasmopara_viticola_a1_(5).jpg)

<https://www.flickr.com/photos/scotnelson/5832775553/>

<https://www.flickr.com/photos/johnkaminski/8402595016>

**S13 :** <https://uabox.univ-angers.fr/index.php/f/18334182>

**S12:** [https://commons.wikimedia.org/wiki/File:Haeckel\\_Mycetozoa.jpg](https://commons.wikimedia.org/wiki/File:Haeckel_Mycetozoa.jpg)

**S15:** [https://commons.wikimedia.org/wiki/File:Amoeba\\_proteus\\_with\\_many\\_pseudopodia.jpg](https://commons.wikimedia.org/wiki/File:Amoeba_proteus_with_many_pseudopodia.jpg)

**S16:**

[https://www.researchgate.net/publication/50225869\\_Multicellular\\_Development\\_of\\_Dictyostelium\\_figures?lo=1](https://www.researchgate.net/publication/50225869_Multicellular_Development_of_Dictyostelium_figures?lo=1)

[https://commons.wikimedia.org/wiki/File:Dictyostelium\\_discoideum\\_02.jpg](https://commons.wikimedia.org/wiki/File:Dictyostelium_discoideum_02.jpg)

**S17:**

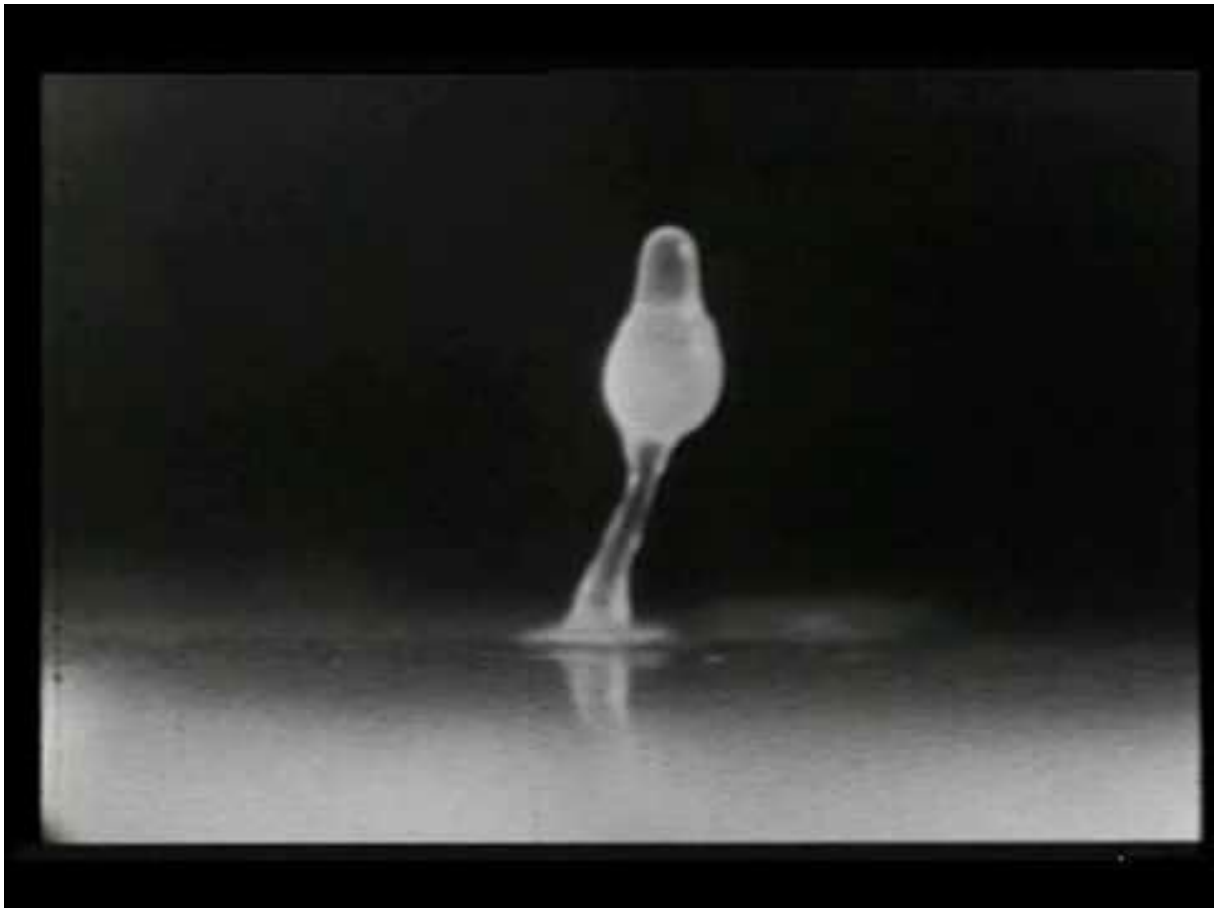
[https://www.researchgate.net/publication/228977024\\_Genetic\\_analysis\\_of\\_phototaxis\\_in\\_Dictyostelium\\_figures?lo=1](https://www.researchgate.net/publication/228977024_Genetic_analysis_of_phototaxis_in_Dictyostelium_figures?lo=1)

[https://www.researchgate.net/publication/322250622\\_Eat\\_Prey\\_Live\\_Dictyostelium\\_discoideum\\_A\\_s\\_a\\_Model\\_for\\_Cell-Autonomous\\_Defenses/figures](https://www.researchgate.net/publication/322250622_Eat_Prey_Live_Dictyostelium_discoideum_A_s_a_Model_for_Cell-Autonomous_Defenses/figures)

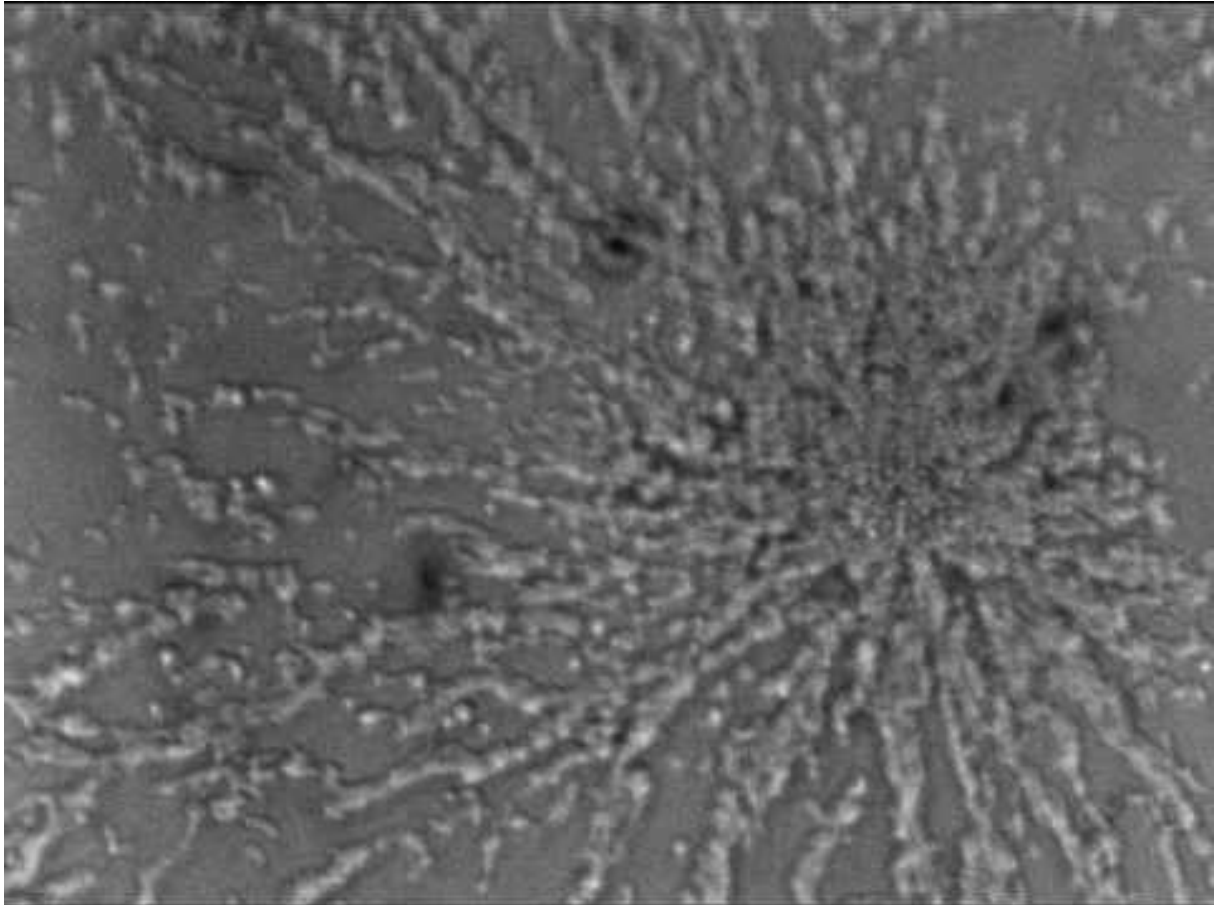
[https://www.researchgate.net/publication/51393241\\_Combining\\_experiments\\_and\\_modelling\\_to\\_understand\\_size\\_regulation\\_in\\_Dictyostelium\\_discoideum/figures?lo=1](https://www.researchgate.net/publication/51393241_Combining_experiments_and_modelling_to_understand_size_regulation_in_Dictyostelium_discoideum/figures?lo=1)

**S18:**

[John Bonner's slime mold movies](#)



[Dictyostelium aggregation](#)



Dictyostelium - a Cellular Slime Mold

**S19:** <https://www.flickr.com/photos/volvob12b/16433705015>

<https://www.flickr.com/photos/boobook48/4670441329>

<https://www.geograph.org.uk/photo/922184>

**S20:** [https://commons.wikimedia.org/wiki/File:OSC\\_Microbio\\_05\\_01\\_PlasmodiLC.jpg](https://commons.wikimedia.org/wiki/File:OSC_Microbio_05_01_PlasmodiLC.jpg)

[https://upload.wikimedia.org/wikipedia/commons/0/0c/Badhamia\\_utricularis\\_lifecycle\\_fragment.jpg](https://upload.wikimedia.org/wikipedia/commons/0/0c/Badhamia_utricularis_lifecycle_fragment.jpg)

**S22:** [https://commons.wikimedia.org/wiki/File:Trichia\\_decipiens.Myxomycetes\\_of\\_Russia.jpg](https://commons.wikimedia.org/wiki/File:Trichia_decipiens.Myxomycetes_of_Russia.jpg)

<https://www.flickr.com/photos/158641594@N04/26490326218>

[https://commons.wikimedia.org/wiki/File:Stemonitis\\_fusca\\_a1\\_\(3\).JPG](https://commons.wikimedia.org/wiki/File:Stemonitis_fusca_a1_(3).JPG)

[https://commons.wikimedia.org/wiki/File:Lycogala\\_epidendrum\\_02.jpg](https://commons.wikimedia.org/wiki/File:Lycogala_epidendrum_02.jpg)

[https://commons.wikimedia.org/wiki/File:Hemitrichia\\_serpula\\_\(Scop.\)\\_Rostaf\\_581311.jpg](https://commons.wikimedia.org/wiki/File:Hemitrichia_serpula_(Scop.)_Rostaf_581311.jpg)

**S23:** [Mould Time-lapse - The Great British Year: Episode 4 Preview - BBC One](#)



**S25:** même référence que la S21 S26: pas libre de droit, à enlever si on peut pas faire autrement...

[https://twitter.com/Docteur\\_Drey/photo](https://twitter.com/Docteur_Drey/photo)

**S27:**

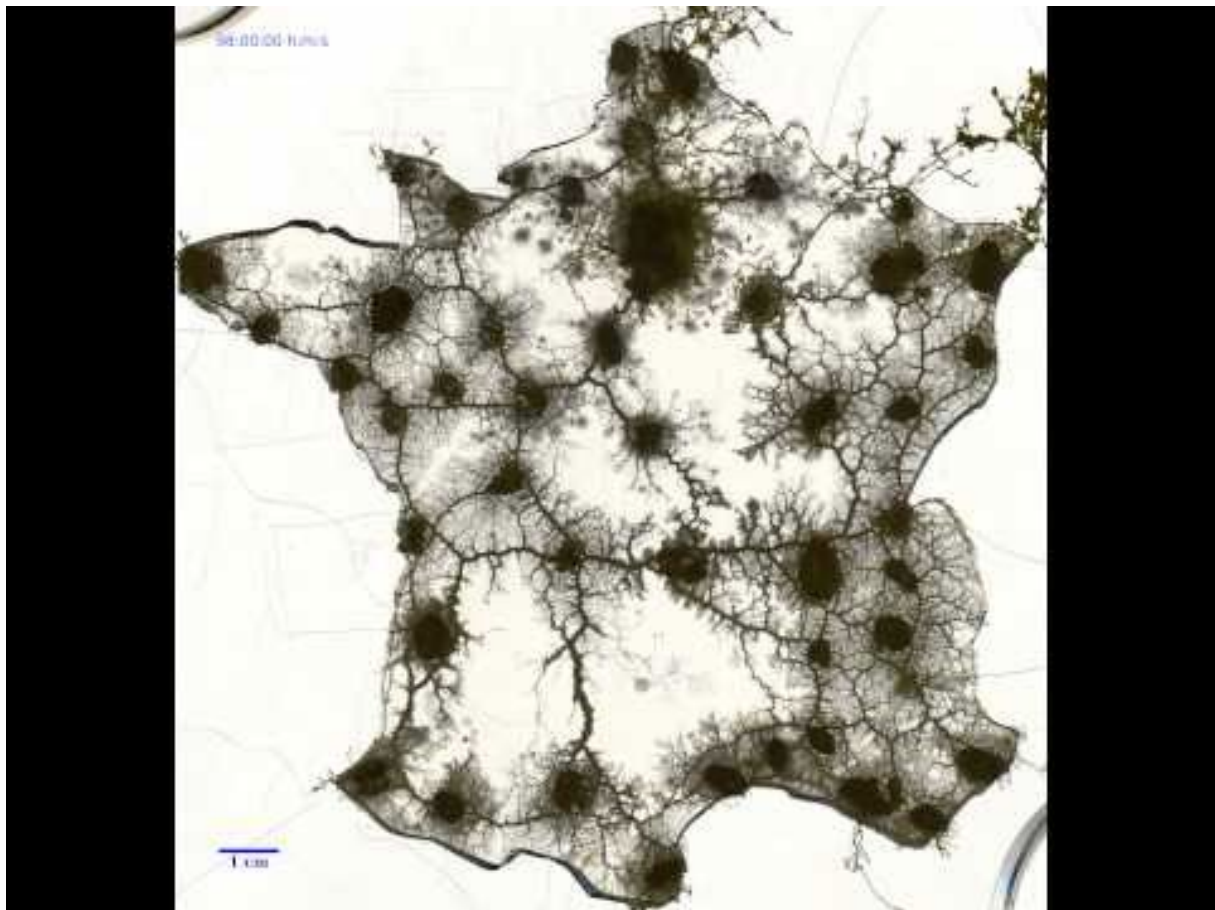
Vogel D, Dussutour A. 2016 Direct transfer of learned behaviour via cell fusion in non-neural organisms. Proc. R. Soc. B 283: 20162382. <http://dx.doi.org/10.1098/rspb.2016.2382> A. Dussutour est OK, utiliser celui-ci: [https://fr.wikidia.org/wiki/Blob#/media/File:Habituatation\\_P.\\_polycephalum.png](https://fr.wikidia.org/wiki/Blob#/media/File:Habituatation_P._polycephalum.png)

**S28:**

[https://www.researchgate.net/publication/41111573\\_Rules\\_for\\_Biologically\\_Inspired\\_Adaptive\\_Network\\_Design](https://www.researchgate.net/publication/41111573_Rules_for_Biologically_Inspired_Adaptive_Network_Design)

[https://fr.wikidia.org/wiki/Blob#/media/File:Physarum\\_polycephalum\\_network.jpg](https://fr.wikidia.org/wiki/Blob#/media/File:Physarum_polycephalum_network.jpg)

**S29:** Video: [Slime Mold Physarum Polycephalum growing on map of France](#)



**S30:** [Slime Mold Physarum Finds the Shortest Path in a Maze](#)



# Episode 6

S5 : Crédits T. Guillemette



S8: [Burger King | The Moldy Whopper](#)



S9: [https://commons.wikimedia.org/wiki/File:Lascaux\\_II.jpg](https://commons.wikimedia.org/wiki/File:Lascaux_II.jpg)

<https://www.researchgate.net/publication/26578717> Lights and shadows on the conservation of a rock art cave The case of Lascaux Cave

**S10:**

[https://en.wikipedia.org/wiki/Zasmidium\\_cellare#/media/File:Kessler\\_R%C3%BCttelpulte\\_BMK.JPG](https://en.wikipedia.org/wiki/Zasmidium_cellare#/media/File:Kessler_R%C3%BCttelpulte_BMK.JPG)

<https://www.researchgate.net/publication/5359444> Phylogenetic and morphotaxonomic revision of Ramichloridium and allied genera/figures?lo=1

[https://commons.wikimedia.org/wiki/File:Serpula\\_lacrimans.jpg](https://commons.wikimedia.org/wiki/File:Serpula_lacrimans.jpg)

**S12:** [https://commons.wikimedia.org/wiki/File:Mycorrhizal\\_types.svg](https://commons.wikimedia.org/wiki/File:Mycorrhizal_types.svg)

**S14:**

<https://www.researchgate.net/publication/321641264> EFFET DE L'INOCULATION ECTOMYCORHIZIENNE EN PEPINIERE SUR LA CROISSANCE ET LA NUTRITION DES PLANTS DU CEDRE DE L'ATLAS EN ALGERIE/figures?lo=1

**S15:** <https://youtu.be/5GoZWYxh0IU>

**S16:**

<https://www.researchgate.net/publication/238082600> Exploring structural definitions of mycorrhizas with emphasis on nutrient-exchange interfaces/figures?lo=1

[https://upload.wikimedia.org/wikipedia/commons/b/b7/Microfotograf%C3%ADas\\_electr%C3%B3nicas\\_de\\_Glomus\\_italicum\\_var\\_tenuisporum.jpg](https://upload.wikimedia.org/wikipedia/commons/b/b7/Microfotograf%C3%ADas_electr%C3%B3nicas_de_Glomus_italicum_var_tenuisporum.jpg)

**S17 :** Crédits T. Guillemette

**S18:** [https://en.wikipedia.org/wiki/Hartig\\_net#/media/File:Ectomycorrhiza\\_illustration.jpg](https://en.wikipedia.org/wiki/Hartig_net#/media/File:Ectomycorrhiza_illustration.jpg)

**S21:**

[https://commons.wikimedia.org/wiki/File:Travni%C5%A1ke\\_orhideje\\_wild\\_orchids\\_\(7198701020\).jpg](https://commons.wikimedia.org/wiki/File:Travni%C5%A1ke_orhideje_wild_orchids_(7198701020).jpg)

**S22:** <https://pxhere.com/fr/photo/1099105>

**S23:**

<https://www.researchgate.net/publication/41487661> Unravelling the phylogenetic relationships of lichenised fungi in Dothideomyceta Licence CC BY-NC-ND 3.0

**S24:** [https://commons.wikimedia.org/wiki/File:Common\\_Orange\\_Lichen\\_-\\_Xanthoria\\_parietina\\_and\\_Physcia\\_caesia\\_\(40369608934\).jpg](https://commons.wikimedia.org/wiki/File:Common_Orange_Lichen_-_Xanthoria_parietina_and_Physcia_caesia_(40369608934).jpg)

**S25:** State of the World's Fungi 2018 9. Climate change: Fungal responses and effects - Martin I. Bidartondo, Christopher Ellisc, Håvard Kauserudd, Peter G. Kennedy, Erik A. Lilleskov, Laura M. Suza, Carrie Andrewg – Page 63

**S26 et S27 :**

<https://www.researchgate.net/publication/305518855> Basidiomycete yeasts in the cortex of ascomycete macrolichens

**S28:** [https://commons.wikimedia.org/wiki/File:Rusavskia\\_elegans\\_\(28699658908\).jpg](https://commons.wikimedia.org/wiki/File:Rusavskia_elegans_(28699658908).jpg)

**S29:**

[https://commons.wikimedia.org/wiki/File:Lichen\\_cross\\_section\\_%E2%80%93\\_heteromeric\\_thallus.svg](https://commons.wikimedia.org/wiki/File:Lichen_cross_section_%E2%80%93_heteromeric_thallus.svg)

**S30:**

[https://www.researchgate.net/publication/282031175\\_Field\\_Guide\\_to\\_Common\\_Epiphytic\\_Macrolichens\\_in\\_Arizona\\_an\\_identification\\_Manual\\_for\\_the\\_USDA\\_Forest\\_Inventory\\_and\\_Analysis\\_Program/figures?lo=1](https://www.researchgate.net/publication/282031175_Field_Guide_to_Common_Epiphytic_Macrolichens_in_Arizona_an_identification_Manual_for_the_USDA_Forest_Inventory_and_Analysis_Program/figures?lo=1)

**S31:** [https://commons.wikimedia.org/wiki/File:Green\\_Lichen.jpg](https://commons.wikimedia.org/wiki/File:Green_Lichen.jpg)

<https://www.flickr.com/photos/ken-ichi/6994978113/>

[https://commons.wikimedia.org/wiki/File:Jester\\_Lichen\\_\(4504242353\).jpg](https://commons.wikimedia.org/wiki/File:Jester_Lichen_(4504242353).jpg)

**S32:** Crédit : T. Guillemette

**S34 :** <https://stateoftheworldsfungi.org/>

**S36:** [https://commons.wikimedia.org/wiki/File:Stereocaulon\\_vulcani.jpg](https://commons.wikimedia.org/wiki/File:Stereocaulon_vulcani.jpg)

**S37:** <https://commons.wikimedia.org/wiki/File:Anim2001.jpg>

**S38:**

[https://www.researchgate.net/publication/309094724\\_Phylogeny\\_of\\_anaerobic\\_fungi\\_phylum\\_Neocallimastigomycota\\_with\\_contributions\\_from\\_yak\\_in\\_China](https://www.researchgate.net/publication/309094724_Phylogeny_of_anaerobic_fungi_phylum_Neocallimastigomycota_with_contributions_from_yak_in_China)

**S39:**

[https://commons.wikimedia.org/wiki/File:Leucoagaricus\\_gongylophorus\\_\(Singer\)\\_M%C3%B6ller\\_214876.jpg](https://commons.wikimedia.org/wiki/File:Leucoagaricus_gongylophorus_(Singer)_M%C3%B6ller_214876.jpg)

[https://commons.wikimedia.org/wiki/File:Atta\\_cephalotes\\_\(Costa\\_Rica\)\\_1.jpg](https://commons.wikimedia.org/wiki/File:Atta_cephalotes_(Costa_Rica)_1.jpg)

**S40:**

[https://www.researchgate.net/publication/226717911\\_Extended\\_Phenotypes\\_and\\_Extended\\_Organisms/figures?lo=1](https://www.researchgate.net/publication/226717911_Extended_Phenotypes_and_Extended_Organisms/figures?lo=1)

<https://www.flickr.com/photos/125349922@N05/15010597820/in/photostream/>

**S43:** [https://www.researchgate.net/publication/224931436\\_The\\_Arabidopsis\\_thaliana-Alternaria\\_brassicicola\\_pathosystem\\_A\\_model\\_interaction\\_for\\_investigating\\_seed\\_transmission\\_of\\_necrotrophic\\_fungi/figures?lo=1](https://www.researchgate.net/publication/224931436_The_Arabidopsis_thaliana-Alternaria_brassicicola_pathosystem_A_model_interaction_for_investigating_seed_transmission_of_necrotrophic_fungi/figures?lo=1) CC BY 2.0

# Episode 7

**S5 :**

<https://www.researchgate.net/publication/224005166> Emerging fungal threats to animal plant and ecosystem health

**S6:**

<https://www.researchgate.net/publication/331037083> The Still Underestimated Problem of Fungal Diseases Worldwide

**S7:** <https://www.flickr.com/photos/aquamech-utah/24443679794>

**S9:** [https://fr.wikipedia.org/wiki/Botrytis\\_cinerea](https://fr.wikipedia.org/wiki/Botrytis_cinerea)

[https://fr.wikipedia.org/wiki/Rouille\\_noire](https://fr.wikipedia.org/wiki/Rouille_noire)

[https://fr.m.wikipedia.org/wiki/Fichier:Tomato\\_with\\_Phytophthora\\_infestans\\_\(late\\_blight\).jpg](https://fr.m.wikipedia.org/wiki/Fichier:Tomato_with_Phytophthora_infestans_(late_blight).jpg)

<https://www.researchgate.net/publication/226616391> Pathogenic and Genetic Diversity of Soilborne Isolates of *Cylindrocladium* from Banana Cropping Systems

**S13:** [https://upload.wikimedia.org/wikipedia/commons/9/99/Botrytis\\_on\\_strawberries.png](https://upload.wikimedia.org/wikipedia/commons/9/99/Botrytis_on_strawberries.png)

<https://commons.wikimedia.org/wiki/File:Botrytis-vigne-grappe.jpg>

**S23:**

Marin-Felix et al. STUDIES IN MYCOLOGY 86: 99–216 (2017).

<http://dx.doi.org/10.1016/j.simyco.2017.04.002> p193 Licence CC BY-NC-ND 4.0

**S24:**[https://www.google.com/search?q=researchgate+haustoria&client=firefox-b-d&sxsrf=ALeKk00DBaIM9oLHWAgI61f10YJmR3aOIA:1617195835369&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjim7L6y9rvAhUN1hoKHafZAKwQ\\_AUoAnoECAEQBA&biw=1440&bih=773#imgsrc=7NkJSLN5IRV2BM](https://www.google.com/search?q=researchgate+haustoria&client=firefox-b-d&sxsrf=ALeKk00DBaIM9oLHWAgI61f10YJmR3aOIA:1617195835369&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjim7L6y9rvAhUN1hoKHafZAKwQ_AUoAnoECAEQBA&biw=1440&bih=773#imgsrc=7NkJSLN5IRV2BM)

**S25 :** Crédits Université d'Angers - libre de droit

**S26:** T. Guillemette

**S27:** Marin-Felix et al. STUDIES IN MYCOLOGY 86: 99–216 (2017).

<http://dx.doi.org/10.1016/j.simyco.2017.04.002> p138 et p14 Licence CC BY-NC-ND 4.0

Marin-Felix et al. , STUDIES IN MYCOLOGY 92: 47–133 (2019) <https://doi.org/10.1016/j.simyco.2018.04.002> - p121 Licence CC BY-NC-ND 4.0

**S28:**

<https://fr.wikipedia.org/wiki/Aflatoxine>

[https://fr.wikipedia.org/wiki/Ochratoxine\\_A](https://fr.wikipedia.org/wiki/Ochratoxine_A)

<https://fr.wikipedia.org/wiki/Z%C3%A9aral%C3%A9none>

<https://fr.wikipedia.org/wiki/Patuline>

**S29:** <https://www.flickr.com/photos/cimmyt/5124336192>

<https://fr.wikipedia.org/wiki/Arachide>

<https://www.flickr.com/photos/cimmyt/5071586801/in/photostream/>

**S31:** <https://www6.bordeaux-aquitaine.inrae.fr/mycsa/Toutes-les-Actualites/Stage-MycSA-3>

Demande envoyée : OK pour réutiliser

**S32:** <https://fr.wikipedia.org/wiki/Ergotisme>

**S33:**

[https://fr.wikipedia.org/wiki/Les\\_Mendiants\\_\(Brueghel\)](https://fr.wikipedia.org/wiki/Les_Mendiants_(Brueghel))

<https://commons.wikimedia.org/wiki/File:Barger.TIF>

**S34:** <https://www.flickr.com/photos/cimmyt/5072202566/in/photostream/>

**S35:**

[https://en.wikipedia.org/wiki/Ergoline#/media/File:Ergoline\\_Structural\\_Formulae\\_V.1.svg](https://en.wikipedia.org/wiki/Ergoline#/media/File:Ergoline_Structural_Formulae_V.1.svg)

[https://fr.wikipedia.org/wiki/Acide\\_lysergique#/media/Fichier:Lysergic\\_acid\\_chemical\\_structure.png](https://fr.wikipedia.org/wiki/Acide_lysergique#/media/Fichier:Lysergic_acid_chemical_structure.png)

# Episode 8

**S2:** <https://www.flickr.com/photos/andreaskay/48066077946/in/photostream/>

**S3:** déjà utilisée dans l'épisode 1

**S4:**

[https://www.researchgate.net/publication/51640663\\_Genomic\\_and\\_Proteomic\\_Analyses\\_of\\_the\\_Fungus\\_Arthrotrichum\\_oligospora\\_Provide\\_Insights\\_into\\_Nematode-Trap\\_Formation/figures?lo=1](https://www.researchgate.net/publication/51640663_Genomic_and_Proteomic_Analyses_of_the_Fungus_Arthrotrichum_oligospora_Provide_Insights_into_Nematode-Trap_Formation/figures?lo=1)

**S5:**

[https://commons.wikimedia.org/wiki/File:Entomophthora\\_muscae\\_on\\_Scathophaga\\_stercoraria\\_\(lateral\\_view\).jpg](https://commons.wikimedia.org/wiki/File:Entomophthora_muscae_on_Scathophaga_stercoraria_(lateral_view).jpg)

[https://upload.wikimedia.org/wikipedia/commons/6/61/Beauveria\\_bassiana\\_en\\_larva\\_de\\_Ithomia\\_e\\_%28Lepidoptera%29.jpg](https://upload.wikimedia.org/wikipedia/commons/6/61/Beauveria_bassiana_en_larva_de_Ithomia_e_%28Lepidoptera%29.jpg)

<https://commons.wikimedia.org/wiki/File:Kecoa.jpg>

[https://upload.wikimedia.org/wikipedia/commons/5/52/Laboulbeniales\\_on\\_Harmonia\\_axyridis\\_%2887211947068%29.jpg](https://upload.wikimedia.org/wikipedia/commons/5/52/Laboulbeniales_on_Harmonia_axyridis_%2887211947068%29.jpg)

[https://upload.wikimedia.org/wikipedia/commons/e/e4/Laboulbeniales\\_on\\_Harmonia\\_axyridis\\_%2887211939256%29.jpg](https://upload.wikimedia.org/wikipedia/commons/e/e4/Laboulbeniales_on_Harmonia_axyridis_%2887211939256%29.jpg)

**S6:**

[https://commons.wikimedia.org/wiki/File:2013-01-01\\_Cordyceps\\_locustiphila\\_Henn\\_399301.jpg](https://commons.wikimedia.org/wiki/File:2013-01-01_Cordyceps_locustiphila_Henn_399301.jpg)

[https://commons.wikimedia.org/wiki/File:Ophiocordyceps\\_caloceroides.jpg](https://commons.wikimedia.org/wiki/File:Ophiocordyceps_caloceroides.jpg)

['Zombie' Parasite Takes Over Insects Through Mind Control | National Geographic](#)



**S7:** <https://www.flickr.com/photos/briangratwicke/14115178249>

**S8:**

[https://fr.wikipedia.org/wiki/Pseudogymnoascus\\_destructans#/media/Fichier:Pseudogymnoascus\\_destructans\\_grey\\_culture.jpg](https://fr.wikipedia.org/wiki/Pseudogymnoascus_destructans#/media/Fichier:Pseudogymnoascus_destructans_grey_culture.jpg)

<https://www.flickr.com/photos/microbeworld/6021646303>

**S11:** figure perso T. Guillemette

**S12:**

[https://upload.wikimedia.org/wikipedia/commons/5/5c/Trichophyton\\_mentagrophytes\\_PHIL22306.png](https://upload.wikimedia.org/wikipedia/commons/5/5c/Trichophyton_mentagrophytes_PHIL22306.png)

<https://www.flickr.com/photos/saintzero/5694340393/in/photostream/>

**S13:** <https://www.cdc.gov/fungal/diseases/ringworm/index.html>

**S14:**

[https://fr.wikipedia.org/wiki/Dermatophytose\\_de\\_la\\_peau\\_glabre#/media/Fichier:Herpes\\_circin%C3%A9\\_01.jpg](https://fr.wikipedia.org/wiki/Dermatophytose_de_la_peau_glabre#/media/Fichier:Herpes_circin%C3%A9_01.jpg)

[https://fr.wikipedia.org/wiki/Teigne\\_\(maladie\)#/\\_media/Fichier:Teigne\\_tondante\\_enfant.jpg](https://fr.wikipedia.org/wiki/Teigne_(maladie)#/_media/Fichier:Teigne_tondante_enfant.jpg)

**S15:**

<https://upload.wikimedia.org/wikipedia/commons/3/3f/Tinea-pedis-interdigital-Sean.jpg>

**S16:**

[https://fr.wikipedia.org/wiki/Trichophyton\\_rubrum#/media/Fichier:Onychomycosis\\_due\\_to\\_Trychophyton\\_rubrum,\\_right\\_and\\_left\\_great\\_toe\\_PHIL\\_579\\_lores.jpg](https://fr.wikipedia.org/wiki/Trichophyton_rubrum#/media/Fichier:Onychomycosis_due_to_Trychophyton_rubrum,_right_and_left_great_toe_PHIL_579_lores.jpg)

**S17:**

[https://upload.wikimedia.org/wikipedia/commons/a/a0/Human tongue infected with oral candidiasis.jpg](https://upload.wikimedia.org/wikipedia/commons/a/a0/Human_tongue_infected_with_oral_candidiasis.jpg)

**S18:**

[https://commons.wikimedia.org/wiki/File:Madura foot me photo for help in diagnosis.jpg](https://commons.wikimedia.org/wiki/File:Madura_foot_me_photo_for_help_in_diagnosis.jpg)

**S21:**

T. Guillemette

[https://www.researchgate.net/publication/275208554 Candida albicans/figures](https://www.researchgate.net/publication/275208554_Candida_albicans/figures)

**S22 :** T. Guillemette

**S23:**

[https://upload.wikimedia.org/wikipedia/commons/7/7a/070522-aspergillus\\_009.jpg](https://upload.wikimedia.org/wikipedia/commons/7/7a/070522-aspergillus_009.jpg)

[https://upload.wikimedia.org/wikipedia/commons/d/d1/Aspergillus flavus.jpg](https://upload.wikimedia.org/wikipedia/commons/d/d1/Aspergillus_flavus.jpg)

**S25:**

[https://upload.wikimedia.org/wikipedia/commons/8/8b/Aspergillome TDM 1.JPG](https://upload.wikimedia.org/wikipedia/commons/8/8b/Aspergillome_TDM_1.JPG)

**S28:**

[https://fr.wikipedia.org/wiki/Cryptococcus neoformans#/media/Fichier:Cryptococcus neoformans using a light India ink staining preparation PHIL 3771 lores.jpg](https://fr.wikipedia.org/wiki/Cryptococcus_neoformans#/media/Fichier:Cryptococcus_neoformans_using_a_light_India_ink_staining_preparation_PHIL_3771_lores.jpg)

**S29:**

[https://fr.wikipedia.org/wiki/Mucormycose#/media/Fichier:Periorbital fungal infection known as mucormycosis, or phycomycosis PHIL 2831 lores.jpg](https://fr.wikipedia.org/wiki/Mucormycose#/media/Fichier:Periorbital_fungal_infection_known_as_mucormycosis,_or_phycomycosis_PHIL_2831_lores.jpg)

<https://www.flickr.com/photos/gishepherd/3225616753>

**S30:** [https://fr.wikipedia.org/wiki/Pneumocystis jirovecii](https://fr.wikipedia.org/wiki/Pneumocystis_jirovecii)

**S31:** [https://commons.wikimedia.org/wiki/File:Histoplasma capsulatum \(8538519681\).jpg](https://commons.wikimedia.org/wiki/File:Histoplasma_capsulatum_(8538519681).jpg)

<https://www.flickr.com/photos/ancientartpodcast/8045843186>

**S32 :** T. Guillemette

# Episode 9

**S02:** [Spore Rain \(mushrooms reproduction\)](#)



**S07:**

<https://www.researchgate.net/publication/320417368> Improving taxonomic accuracy for fungi in public sequence databases applying %27one name one species%27 in well-defined genera with TrichodermaHypocrea as a test case/figures

**S09:** [https://upload.wikimedia.org/wikipedia/commons/c/cd/WJD103\\_6-16-11.jpg](https://upload.wikimedia.org/wikipedia/commons/c/cd/WJD103_6-16-11.jpg)

**S11:** <https://www.flickr.com/photos/gishepherd/3225616753>

[https://commons.wikimedia.org/wiki/File:Black mold \(rhizopus sp\) By El sayed Al gayar.jpg](https://commons.wikimedia.org/wiki/File:Black_mold_(rhizopus_sp)_By_El_sayed_Al_gayar.jpg)

**S12:** <https://www.flickr.com/photos/ajc1/39229539922/in/photostream/>

**S16:** [https://fr.wikipedia.org/wiki/Septoriose du bl%C3%A9#/media/Fichier:Septoria-tritici.jpg](https://fr.wikipedia.org/wiki/Septoriose_du_bl%C3%A9#/media/Fichier:Septoria-tritici.jpg)

**S17:**

[https://en.wikipedia.org/wiki/Colletotrichum sublineolum#/media/File:Acervuli of Colletotrichum sublineolum on Sweet sorghum.jpg](https://en.wikipedia.org/wiki/Colletotrichum_sublineolum#/media/File:Acervuli_of_Colletotrichum_sublineolum_on_Sweet_sorghum.jpg)

**S18:** [https://commons.wikimedia.org/wiki/File:Melanconis-like fungi \(10.3897-myckeys.42.29634\) Figure 3.jpg](https://commons.wikimedia.org/wiki/File:Melanconis-like_fungi_(10.3897-myckeys.42.29634)_Figure_3.jpg)

**S20:**

[https://www.researchgate.net/publication/268213627\\_A\\_new\\_species\\_of\\_Sporidesmiopsis\\_and\\_three\\_new\\_records\\_of\\_other\\_dematiaceous\\_hyphomycetes\\_from\\_southern\\_China/figures?lo=1](https://www.researchgate.net/publication/268213627_A_new_species_of_Sporidesmiopsis_and_three_new_records_of_other_dematiaceous_hyphomycetes_from_southern_China/figures?lo=1)

**S21:**

[https://fr.wikipedia.org/wiki/Pier\\_Andrea\\_Saccardo#/media/Fichier:Pier\\_Andrea\\_Saccardo,\\_1900\\_-\\_Accademia\\_delle\\_Sienze\\_di\\_Torino\\_0115\\_C.jpg](https://fr.wikipedia.org/wiki/Pier_Andrea_Saccardo#/media/Fichier:Pier_Andrea_Saccardo,_1900_-_Accademia_delle_Sienze_di_Torino_0115_C.jpg)

[https://commons.wikimedia.org/wiki/File:Sylloge\\_Fungorum,\\_vol.\\_25.png](https://commons.wikimedia.org/wiki/File:Sylloge_Fungorum,_vol._25.png)

**S22:**

[https://commons.wikimedia.org/wiki/File:04\\_02\\_03\\_types\\_of\\_conidia,\\_asexual\\_fungi,\\_imperfect\\_fungi\\_\(M.\\_Piepenbring\).png](https://commons.wikimedia.org/wiki/File:04_02_03_types_of_conidia,_asexual_fungi,_imperfect_fungi_(M._Piepenbring).png)

<https://www.flickr.com/photos/atrnkoczy/32390318215/in/photostream/>

**S24:** [https://commons.wikimedia.org/wiki/File:Fusarium\\_convolutans\\_\(10.3897-myckeys.34.25974\)\\_Figure\\_5.jpg](https://commons.wikimedia.org/wiki/File:Fusarium_convolutans_(10.3897-myckeys.34.25974)_Figure_5.jpg)

[https://commons.wikimedia.org/wiki/File:Fusarium\\_transvaalense\\_\(10.3897-myckeys.34.25974\)\\_Figure\\_7.jpg](https://commons.wikimedia.org/wiki/File:Fusarium_transvaalense_(10.3897-myckeys.34.25974)_Figure_7.jpg)

# Episode 10

**S02:** [Emission des spores d'un champignon.](#)



**S05:**

[https://commons.wikimedia.org/wiki/File:06\\_11\\_life\\_cycle,\\_Synchytrium\\_endobioticum\\_on\\_potato,\\_Chytridiomycota\\_\(M.\\_Piepenbring\).png](https://commons.wikimedia.org/wiki/File:06_11_life_cycle,_Synchytrium_endobioticum_on_potato,_Chytridiomycota_(M._Piepenbring).png)

**S14:**

[https://commons.wikimedia.org/wiki/File:06\\_07\\_life\\_cycle,\\_Mucor\\_sp.,\\_Mucorales,\\_Zygomycota\\_\(M.\\_Piepenbring\).svg](https://commons.wikimedia.org/wiki/File:06_07_life_cycle,_Mucor_sp.,_Mucorales,_Zygomycota_(M._Piepenbring).svg)

**S18:** [https://commons.wikimedia.org/wiki/File:Rhizopus\\_zygospores.jpg](https://commons.wikimedia.org/wiki/File:Rhizopus_zygospores.jpg)

<https://commons.wikimedia.org/wiki/File:Zygo1003.jpg>

<https://www.flickr.com/photos/blueridgekitties/5432119851>

**S19:**

[https://commons.wikimedia.org/wiki/File:04\\_01\\_02\\_life\\_cycle\\_Ascomycota,\\_ascus\\_\(M.\\_Piepenbring\).png](https://commons.wikimedia.org/wiki/File:04_01_02_life_cycle_Ascomycota,_ascus_(M._Piepenbring).png)

**S27:**

[https://upload.wikimedia.org/wikipedia/commons/2/20/Linear\\_arrangement\\_of\\_ascospores\\_in\\_the\\_asci\\_of\\_the\\_fungus\\_Sordaria\\_macrospora\\_Cropped.jpg](https://upload.wikimedia.org/wikipedia/commons/2/20/Linear_arrangement_of_ascospores_in_the_asci_of_the_fungus_Sordaria_macrospora_Cropped.jpg)

[https://upload.wikimedia.org/wikipedia/commons/3/34/Linear\\_arrangement\\_of\\_ascospores\\_in\\_the\\_asci\\_of\\_the\\_fungus\\_Sordaria\\_macrospora.jpg](https://upload.wikimedia.org/wikipedia/commons/3/34/Linear_arrangement_of_ascospores_in_the_asci_of_the_fungus_Sordaria_macrospora.jpg)

<https://www.flickr.com/photos/cornellfungi/3482818583>

<https://www.flickr.com/photos/gishepherd/2879093721>

**S28:**

[https://commons.wikimedia.org/wiki/File:04\\_03\\_02\\_fruiting\\_bodies, Ascomycota \(M. Piepenbring\).png](https://commons.wikimedia.org/wiki/File:04_03_02_fruiting_bodies,_Ascomycota_(M._Piepenbring).png)

**S29:**

<https://bladmineerders.nl/parasites/fungi/ascomycota/pezizomycotina/leotiomycetes/erysi-phales/erysiphaceae/erysiphe/erysiphe-syringae-japonicae/>

[https://fr.wikipedia.org/wiki/Cleisto%C3%A9istoth%C3%A8ce#/media/Fichier:Uncinula \(Oidium\) cleistothecium 40X \(1\).png](https://fr.wikipedia.org/wiki/Cleisto%C3%A9istoth%C3%A8ce#/media/Fichier:Uncinula_(Oidium)_cleistothecium_40X_(1).png)

**S30:** <https://www.flickr.com/photos/151887236@N05/45584738602/>

<https://fr.wikipedia.org/wiki/P%C3%A9rith%C3%A8ce#/media/Fichier:Nectria.jpg>

**S31:** <https://www.flickr.com/photos/gishepherd/3141094137/in/photostream/>

**S32:**

[https://commons.wikimedia.org/wiki/File:03\\_02\\_09\\_life\\_cycle of Agaricus sp., Agaricales Basidiomycota \(M. Piepenbring\).png](https://commons.wikimedia.org/wiki/File:03_02_09_life_cycle_of_Agaricus_sp.,_Agaricales_Basidiomycota_(M._Piepenbring).png)

**S35:**

[https://en.wikipedia.org/wiki/File:03\\_01\\_07\\_life\\_cycle Basidiomycota basidium \(M. Piepenbring\).svg](https://en.wikipedia.org/wiki/File:03_01_07_life_cycle_Basidiomycota_basidium_(M._Piepenbring).svg)

**S37:** <https://commons.wikimedia.org/wiki/File:Basi1001L.jpg#/media/File:Basi1001.jpg>

[https://commons.wikimedia.org/wiki/File:Coprinus basidia.jpg](https://commons.wikimedia.org/wiki/File:Coprinus_basidia.jpg)

**S38:**

[https://fr.wikipedia.org/wiki/Agarico%C3%AFde \(clade\)#/media/Fichier:Agaricus bisporus G4.JPG](https://fr.wikipedia.org/wiki/Agarico%C3%AFde_(clade)#/media/Fichier:Agaricus_bisporus_G4.JPG)

[https://fr.wikipedia.org/wiki/Pied-de-mouton#/media/Fichier:Hedgehog fungi2.jpg](https://fr.wikipedia.org/wiki/Pied-de-mouton#/media/Fichier:Hedgehog_fungi2.jpg)

[https://fr.wikipedia.org/wiki/Craterellus tubaeformis#/media/Fichier:Craterellus tubaeformis 1345904803 69350246bb o cropped.jpg](https://fr.wikipedia.org/wiki/Craterellus_tubaeformis#/media/Fichier:Craterellus_tubaeformis_1345904803_69350246bb_o_cropped.jpg)

<https://pixabay.com/fr/photos/champignon-podberiozovik-bolet-1879916/>

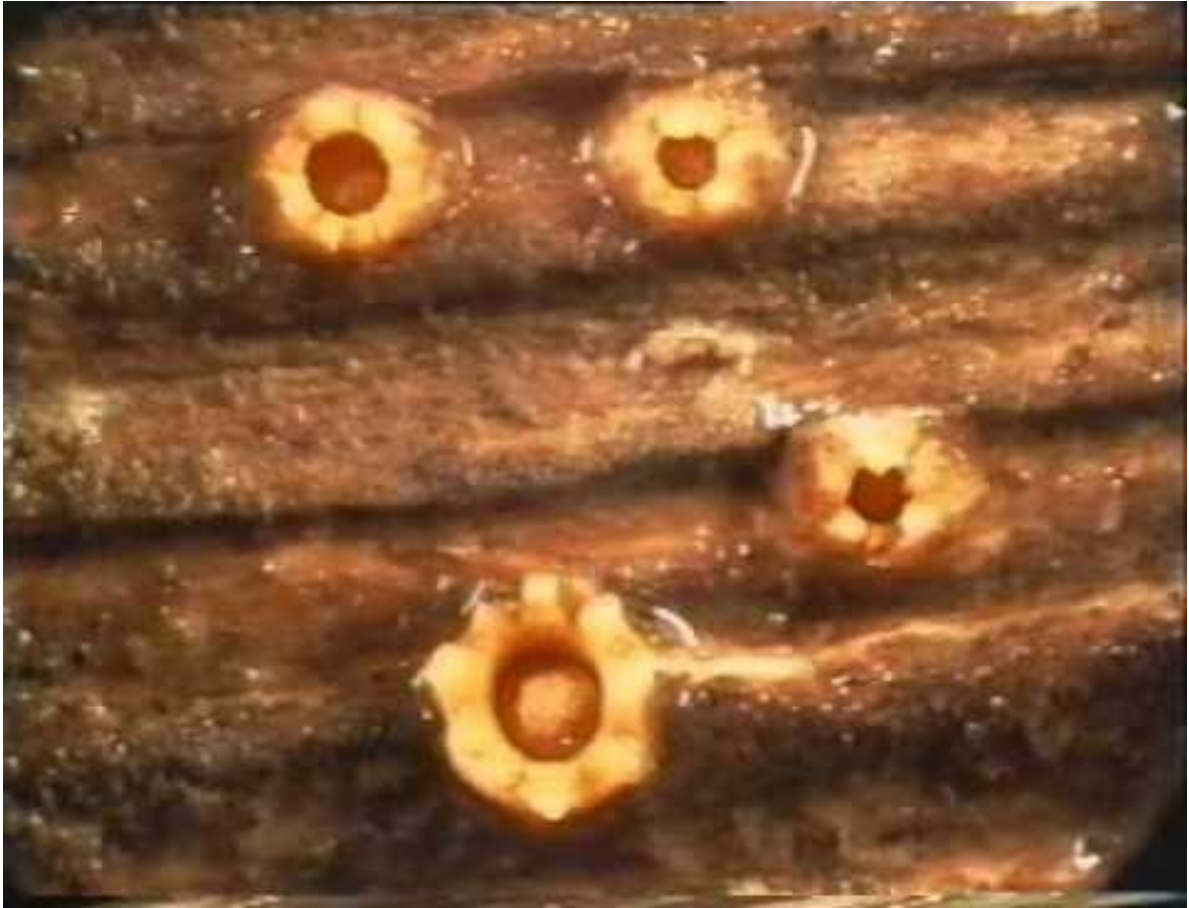
**S41:** [Apothecia releasing ascospores](#)



**S42:**

[https://www.researchgate.net/publication/299492701\\_Dispersal\\_Strategies\\_of\\_Microfungi/figures?lo=1](https://www.researchgate.net/publication/299492701_Dispersal_Strategies_of_Microfungi/figures?lo=1) Demande en attente

**S43:** [Sphaerobolus stellatus.wmv](#)



S44: [Pilobolus crystallinus 1a](#)



[Pilobolus: Ultra-High-Speed Fungus Spore Discharge](#)



# Episode 11

**S02:** <https://pxhere.com/fr/photo/989339>

**S03:** [https://commons.wikimedia.org/wiki/File:Chanterelles - geograph.org.uk - 920622.jpg](https://commons.wikimedia.org/wiki/File:Chanterelles_-_geograph.org.uk_-_920622.jpg)

[https://commons.wikimedia.org/wiki/File:Russula emetica The sickener.jpg](https://commons.wikimedia.org/wiki/File:Russula_emetica_The_sickener.jpg)

[https://commons.wikimedia.org/wiki/File:Lactarius volemus 90024 cropped.jpg?uselang=fr](https://commons.wikimedia.org/wiki/File:Lactarius_volemus_90024_cropped.jpg?uselang=fr)

<https://www.flickr.com/photos/fra298/15020009594>

**S04:** <https://www.flickr.com/photos/125349922@N05/14373056430/in/photostream/>

<https://www.flickr.com/photos/125349922@N05/14536216556/in/photostream/>

<https://www.flickr.com/photos/125349922@N05/14536288196/in/photostream/>

<https://www.flickr.com/photos/125349922@N05/14555977531/in/photostream/>

**S06:** [https://commons.wikimedia.org/wiki/File:Don%27t eat the mushrooms - panoramio.jpg](https://commons.wikimedia.org/wiki/File:Don%27t_eat_the_mushrooms_-_panoramio.jpg)

**S07:**

[https://commons.wikimedia.org/wiki/File:GYROMITRA ESCULENTA \(Krombh.\) Cooke \(5897315242\).jpg](https://commons.wikimedia.org/wiki/File:GYROMITRA_ESCULENTA_(Krombh.)_Cooke_(5897315242).jpg)

[https://commons.wikimedia.org/wiki/File:Orangerandiger Hautkopf Cortinarius malicorius .jpg](https://commons.wikimedia.org/wiki/File:Orangerandiger_Hautkopf_Cortinarius_malicorius.jpg)

[https://commons.wikimedia.org/wiki/File:2011-10-26 Amanita phalloides \(Fr.\) Link 177883.jpg](https://commons.wikimedia.org/wiki/File:2011-10-26_Amanita_phalloides_(Fr.)_Link_177883.jpg)

**S08:** <https://commons.wikimedia.org/wiki/File:A-amanitin.png>

[https://commons.wikimedia.org/wiki/File:Amanita phalloides 98857212.jpg](https://commons.wikimedia.org/wiki/File:Amanita_phalloides_98857212.jpg)

**S10:** [https://commons.wikimedia.org/wiki/File:Psilocin chemical structure.png](https://commons.wikimedia.org/wiki/File:Psilocin_chemical_structure.png)

[https://commons.wikimedia.org/wiki/File:Psilocybe semilanceata.jpg](https://commons.wikimedia.org/wiki/File:Psilocybe_semilanceata.jpg)

**S11:** <https://fr.openfoodfacts.org/produit/5019503027471/steak-hache-quorn>

<https://uk.openfoodfacts.org/product/5010251977117/yeast-flakes-morrison>

<https://www.flickr.com/photos/dullhunk/4033138828>

**S12:** [https://commons.wikimedia.org/wiki/File:Pinot noir grapes starting to ferment.jpg](https://commons.wikimedia.org/wiki/File:Pinot_noir_grapes_starting_to_ferment.jpg)

<https://pxhere.com/fr/photo/1458639>

<https://pixabay.com/fr/photos/p%C3%A2te-cuisiner-recette-italien-943245/>

**S13:**

[https://commons.wikimedia.org/wiki/File:Affinage du fromage de ch%C3%A8vre poitevine.jpg](https://commons.wikimedia.org/wiki/File:Affinage_du_fromage_de_ch%C3%A8vre_poitevine.jpg)

[https://commons.wikimedia.org/wiki/File:Cave affinage Jurafllore - Fort des Rousses 01 by Line1.JPG](https://commons.wikimedia.org/wiki/File:Cave_affinage_Jurafllore_-_Fort_des_Rousses_01_by_Line1.JPG)

**S15:** <https://upload.wikimedia.org/wikipedia/eo/5/58/Otzi.jpg>

<https://www.flickr.com/photos/blondinrikard/15771617726/in/photostream/>

**S16:** [https://commons.wikimedia.org/wiki/File:Cordyceps sinensis.jpg](https://commons.wikimedia.org/wiki/File:Cordyceps_sinensis.jpg)

[https://upload.wikimedia.org/wikipedia/commons/b/b2/Elaphocordyceps ophioglossoides 02.jpg](https://upload.wikimedia.org/wikipedia/commons/b/b2/Elaphocordyceps_ophioglossoides_02.jpg)

**S18:** <https://www.flickr.com/photos/crcedinburgh/10154342636>

[https://commons.wikimedia.org/wiki/File:Alexander Fleming 3.jpg](https://commons.wikimedia.org/wiki/File:Alexander_Fleming_3.jpg)

<https://commons.wikimedia.org/wiki/File:Penicillin-G.svg>

**S19:** <https://fr.wikipedia.org/wiki/Ciclosporine#/media/Fichier:Ciclosporin.svg>

<https://fr.wikipedia.org/wiki/Fingolimod>

<https://commons.wikimedia.org/wiki/File:Fourlsariasinclairii.jpg>

**S20:** <https://fr.wikipedia.org/wiki/Paclitaxel>

<https://fr.wikipedia.org/wiki/Vinblastine>

[https://fr.wikipedia.org/wiki/Taxus#/media/Fichier:Taxus baccata MHNT.jpg](https://fr.wikipedia.org/wiki/Taxus#/media/Fichier:Taxus_baccata_MHNT.jpg)

[https://commons.wikimedia.org/wiki/File:Catharanthus roseus Bain fleur.jpg](https://commons.wikimedia.org/wiki/File:Catharanthus_roseus_Bain_fleur.jpg)

**S25:** [https://commons.wikimedia.org/wiki/File:Bioreactor principle.svg](https://commons.wikimedia.org/wiki/File:Bioreactor_principle.svg)

<https://www.flickr.com/photos/sanofi-pasteur/5283861272/in/photostream/>

**S34:**

[https://commons.wikimedia.org/wiki/File:Electronic waste at Agbogbloshie, Ghana.jpg](https://commons.wikimedia.org/wiki/File:Electronic_waste_at_Agbogbloshie,_Ghana.jpg)

**S35:** <https://www.hippopx.com/en/query?q=pollution>

**S36:** <https://www.flickr.com/photos/cornellfungi/2074498247/in/photostream/>

**S37:** <https://www.sciencedirect.com/science/article/pii/S0264127519308354#f0010>

**S38:**

[https://www.researchgate.net/publication/337690383 Engineered mycelium composite construction materials from fungal biorefineries A critical review/figures](https://www.researchgate.net/publication/337690383_Engineered_mycelium_composite_construction_materials_from_fungal_biorefineries_A_critical_review/figures)

<https://www.flickr.com/photos/trevorpatt/14722720037/in/photostream/>

<https://www.flickr.com/photos/trevorpatt/14886209656/in/photostream/>

**S39:**

[https://upload.wikimedia.org/wikipedia/commons/6/61/Beauveria\\_bassiana\\_en\\_larva\\_de\\_Lepidoptera.jpg](https://upload.wikimedia.org/wikipedia/commons/6/61/Beauveria_bassiana_en_larva_de_Lepidoptera.jpg)

<https://commons.wikimedia.org/wiki/File:Kecoa.jpg>

[https://microbewiki.kenyon.edu/index.php/File:Ring\\_trapping-2.jpg](https://microbewiki.kenyon.edu/index.php/File:Ring_trapping-2.jpg)