

Fungi videos:

- True facts about stinkhorns: <https://www.youtube.com/watch?v=ADrBo7u3tR4>
- Denver Post interviews a psilocybin shroom grower: <https://www.youtube.com/watch?v=9-br6vmP1VU>
- Chytrid fungus – <https://www.youtube.com/watch?v=7RFK9KNC8FA>
- Lichens are a 3-way symbiosis – [https://www.youtube.com/watch?v=Fkw\\_VF5zDT0](https://www.youtube.com/watch?v=Fkw_VF5zDT0)
- Tweed, dyed with lichens– [https://www.youtube.com/watch?v=drGZKt\\_DzaQ](https://www.youtube.com/watch?v=drGZKt_DzaQ) (4 minutes)
- Lichen dying for fabric– <https://www.youtube.com/watch?v=u47HO89VdVI> (start at 3:50, but a little too slow-paced)
- Cordyceps fungi – <https://www.youtube.com/watch?v=XuKjBIBBAL8>

Photosynthesis videos:

- <https://www.youtube.com/watch?v=xMSNBICX8LA> --song
- [https://www.youtube.com/watch?v=Q\\_1mxZdF2TY](https://www.youtube.com/watch?v=Q_1mxZdF2TY) --song

Cyanobacteria videos:

- Interpretive dance of cyanobacteria biofuel production <https://www.youtube.com/watch?v=6vt0LwXENq0> (7:07)
- \*\*American Museum about blue-green algae diversity and culturing <https://www.youtube.com/watch?v=ZRgeh7cN9PQ> (10min)
- Chemistry of cyanotoxins <https://www.youtube.com/watch?v=kNL99XVjJQo> (4min)

Algae videos:

- Spirogyra conjugating (time lapse) <https://www.youtube.com/watch?v=O9v-xj2fjQI>

Moss videos:

- Rehydration of *Syntrichia caninervis*: <https://www.youtube.com/watch?v=qHgmCpkEmrA>
- Peat harvesting: [www.youtube.com/watch?v=pMavIC15dhU](https://www.youtube.com/watch?v=pMavIC15dhU)

Fern videos:

- Leptosporangium catapult; <https://www.youtube.com/watch?v=mDIHGrRINPE>
- Azolla fertilization in Lombok, Indonesia <https://www.youtube.com/watch?v=OrFJ9-Kuqq4>
- Azolla fertilization #2 [https://www.youtube.com/watch?v=1D6HIPR\\_cE4](https://www.youtube.com/watch?v=1D6HIPR_cE4)
- Azolla event: <https://www.youtube.com/watch?v=LUnpHax9EwA>

Seed Plant videos:

- Pollen tube growth/development <https://www.youtube.com/watch?v=4Kw2U2E1POM>
- Welwitschia (2 min) <https://www.youtube.com/watch?v=1AOvJ1fmjpk>
- Welwitschia (5 min) [https://www.youtube.com/watch?v=JOUZ\\_nU-0Dw](https://www.youtube.com/watch?v=JOUZ_nU-0Dw)

#### Root videos:

- Root Growth (6 min) <https://www.youtube.com/watch?v=dwHeq6dbCm4>
- “Going Underground: Why are Roots so Important” (8 min) <https://www.youtube.com/watch?v=68wslX2TAUI>

#### Soil videos:

- Soil horizons (K State) <https://www.youtube.com/watch?v=b1VcCc0co78> (5 minutes)

#### Stems and plant architecture

- Science Friday – Biomechanics of Tendrils <https://www.youtube.com/watch?v=Vbzgv5iKEyY> (5 minutes)
- Niklas on evolution of plant architecture <https://www.youtube.com/watch?v=-BhqMg5MT3g> (13 min from 31:20 to 44:30)

#### Plant senses:

- Heliotropism in Sunflowers
  - [https://nature.berkeley.edu/blackmanlab/Blackman\\_Lab/Solar\\_Tracking.html](https://nature.berkeley.edu/blackmanlab/Blackman_Lab/Solar_Tracking.html)
  - <https://nature.berkeley.edu/news/2016/08/sunflowers-move-clock>
- Touch-induced movement
  - Sundew <https://www.youtube.com/watch?v=-8YpoP7yRE8> OR <https://www.youtube.com/watch?v=0vzc-t1d3lo>
  - Dodder <https://youtu.be/tZpjKemWalk>
  - Venus fly trap & Sensitive Mimosa [https://www.ted.com/talks/greg\\_gage\\_electrical\\_experiments\\_with\\_plants\\_that\\_count\\_and\\_communicate#t-344029](https://www.ted.com/talks/greg_gage_electrical_experiments_with_plants_that_count_and_communicate#t-344029)
  - Peyote and other cacti <https://www.youtube.com/watch?v=Pyihtn7t9i4> [https://youtu.be/4G\\_S0QvRFcw](https://youtu.be/4G_S0QvRFcw) <https://awkwardbotany.com/2015/06/10/year-of-pollination-stamen-movement-in-the-flowers-of-prickly-pears/>
  - Cucurbit tendril <https://www.youtube.com/watch?v=ufPT7S9OSok>
  - Mahonia: <https://www.youtube.com/watch?v=BbmQWMphmtU>
  - Bladderwort [https://www.youtube.com/watch?v=Zb\\_SLZFsMyQ](https://www.youtube.com/watch?v=Zb_SLZFsMyQ)

#### Wood videos:

- Liana morphology – Joyce Chery [https://www.youtube.com/watch?v=671yhPMcfqc&feature=emb\\_title](https://www.youtube.com/watch?v=671yhPMcfqc&feature=emb_title) (15 min)

#### Agriculture and Green Revolution

- PBS on Green Revolution and agricultural research in India... from 2002. (6 min) <https://www.pbs.org/video/green-revolution-826/>

## Agriculture: CRISPR-Cas9

- Basics of CRISPR-Cas9 system (7 min):  
<https://www.youtube.com/watch?v=MnYppmstxIs>
- Developing CRISPR-modified rice lines at Cornell:  
<https://www.youtube.com/watch?v=XGGJFnOZfi8> (6 min)
- Application for Tomato growers: [https://www.youtube.com/watch?v=vnAjbC\\_Hxjo](https://www.youtube.com/watch?v=vnAjbC_Hxjo) (5 min)

## Ethnobotany/Economic Botany

- Pharmacology of caffeine: <https://www.youtube.com/watch?v=YuJOhpNS0IY> (2 min)
- Coffee processing in Ethiopia: <https://www.youtube.com/watch?v=FdfwlMuXZQcC> (7min)
- Wet processing coffee: <https://www.youtube.com/watch?v=jCWN2F-GhAE> (9 min)
- Types of tea: <https://www.youtube.com/watch?v=EUuw5rqWkZU> (24 min, but start at 3:30)
- Mechanical tea harvesting: <https://www.youtube.com/watch?v=z0heD10KrHE> (7 min)
- Tea brewing: <https://www.youtube.com/watch?v=puldqGnW9P0> (2 min)
- Michael Pollan discussing his book about caffeine:  
[www.youtube.com/watch?v=M\\_BNmD1IEac](http://www.youtube.com/watch?v=M_BNmD1IEac) (15 min)
- Michael Pollan on Stephen Colbert, talking about psychedelics:  
[www.youtube.com/watch?v=qzgtJleG3r8](http://www.youtube.com/watch?v=qzgtJleG3r8) (7 min)
- Gary Martin describes sustainable herbalism in Morocco (15 min)  
<https://www.youtube.com/watch?v=BXOXBx5LVw0>
- Archiving Native Plant Use (Wyoming PBS)  
<https://www.youtube.com/watch?v=Dnba2vh-csQ> (11 min)
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