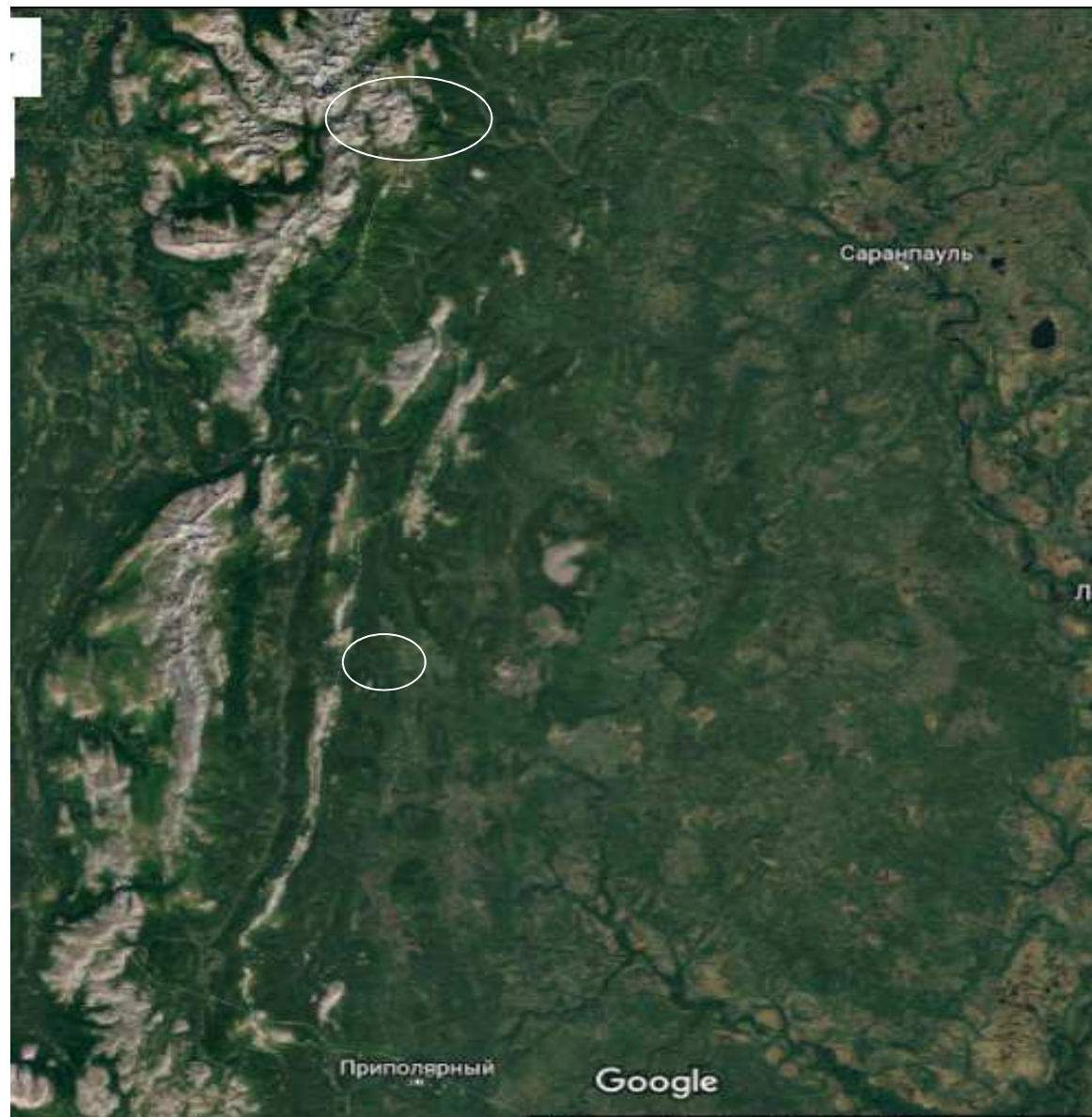




# Интересные виды грибов

Восточный макросклон  
Северного и Приполярного  
Урала

# РАЙОН ИССЛЕДОВАНИЙ





# РАЙОН ИССЛЕДОВАНИЙ

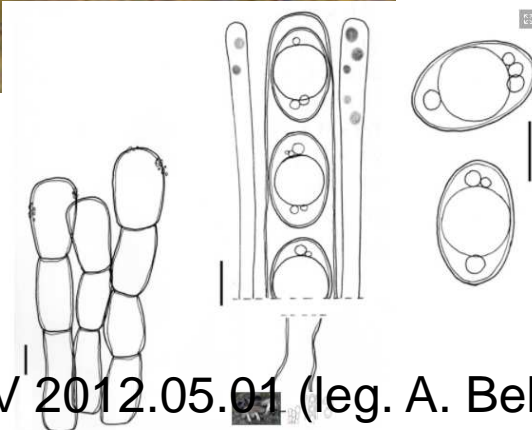
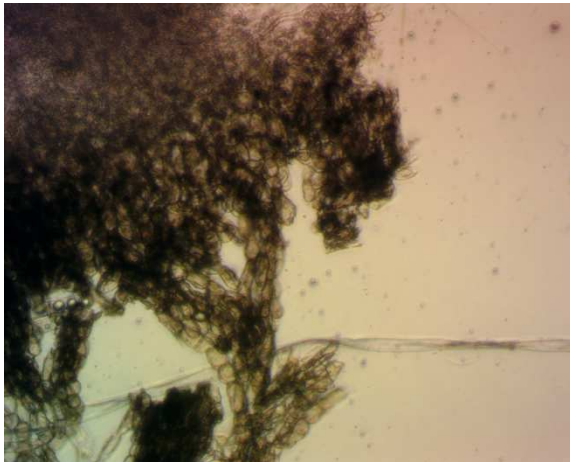


# РАЙОН ИССЛЕДОВАНИЙ



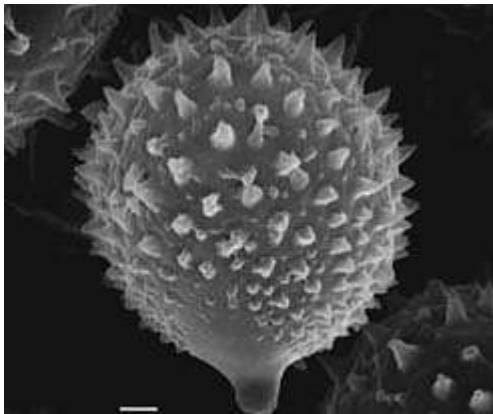


# 17.07.14-4 *Helvella solitaria*

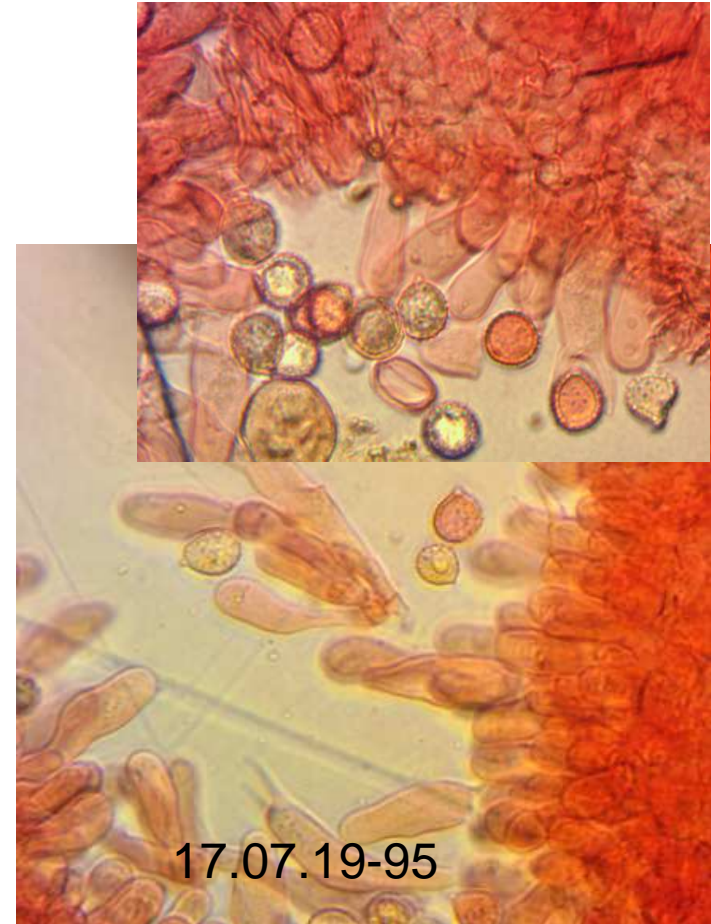


Coll. NV 2012.05.01 (leg. A. Bellocq)  
Microcharacters - Scale bars = 10  $\mu$ m  
© N. Van Vooren

# Laccaria pumila



**SEM by G. M. Mueller, © 1992**





# Laccaria montana ?



Толстые шипы,  
диаметр основания >  
1,4  $\mu\text{m}$

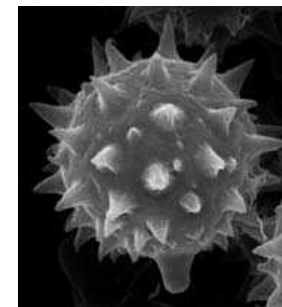
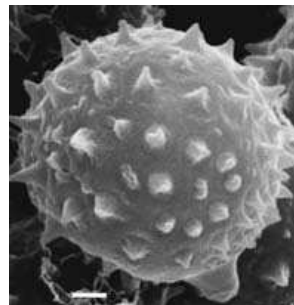


Тонкие шипы,  
диаметр основания < 1  
 $\mu\text{m}$ ,

# Laccaria

- *Laccaria montana*  
*echinulae* (0.5-)0.9-1.8  $\mu\text{m}$  long,  $\frac{3}{4}$  1  $\mu\text{m}$  wide at base, not crowded to crowded
- *Laccaria ohiensis*  
*echinulae* (1-)1.5-2.8  $\mu\text{m}$  long,  $> 1.2 \mu\text{m}$  wide at base, crowded

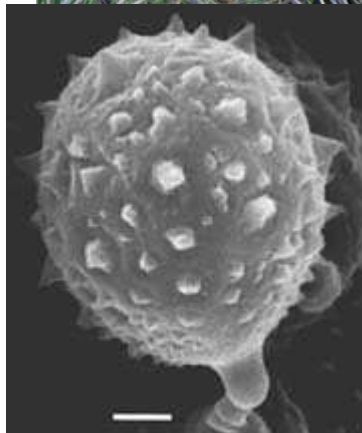
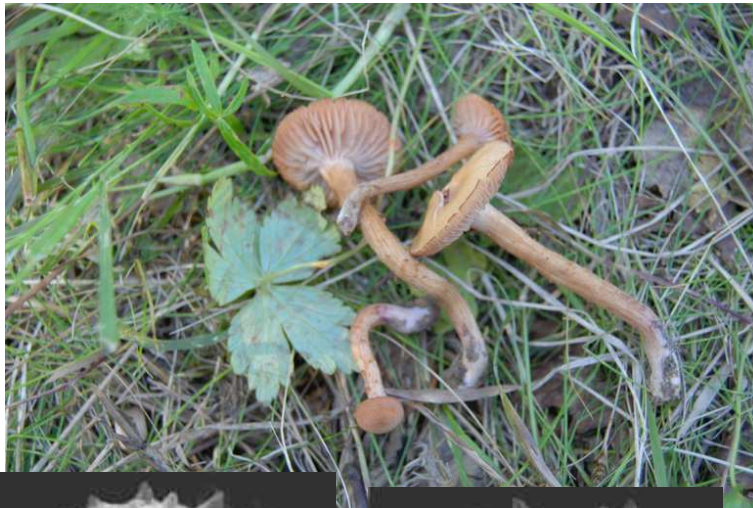
G. M. Mueller, © 1992





# Laccaria nobilis

Laccaria nobilis can be distinguished easily from other members of the L. bicolor complex by its large size, scaly to squarrose pileus, scaly stipe, and lack of obvious cheilocystidia

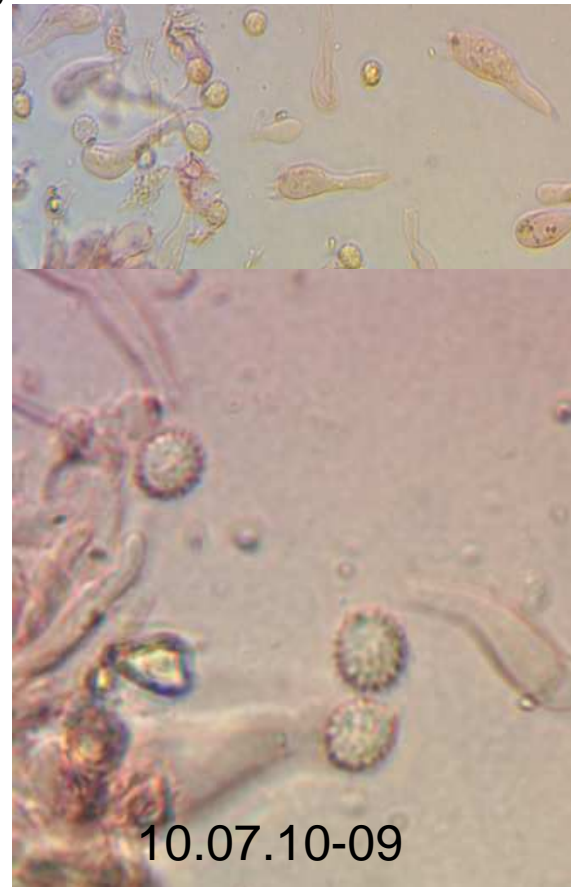


L. bicolor

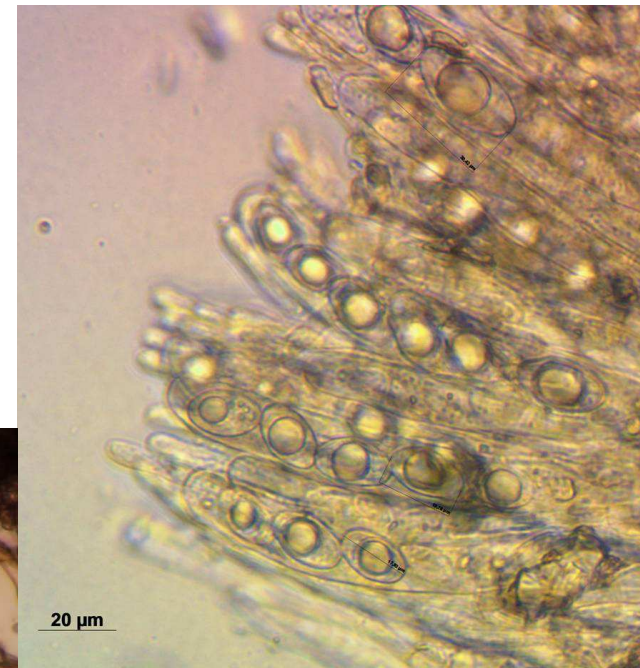


L. nobilis

**SEM by G. M. Mueller, © 1992**



# Sepultaria



- Длина спор  
(18) 20-23 (30)



# Sepultaria

- Taam, Poeldmaa, Kulman, 2010: DOI 10.1007/s11557-010-0659-4

- *S. arenicola*

The diameter of dried apothecia ranges from 0.5 to 2.5 cm. The excipular hair length reaches 3 mm. The ascospore dimensions are (21.4–)23.1(–25.7) × (12.2–)13.1 (–14.2) μm

- *S. arenosa*

The type specimen has fruit-bodies with diam up to 1.2 cm and ascospores with dimensions of (26.8–)29.6 (–32.9) × (14.4–)15.5(–16.8) μm. It is distinguished from *G. arenicola* by the remarkably larger ascospores.

# РАЙОН ИССЛЕДОВАНИЙ





# Lichenomphalia hudsoniana



Lücking et al., 2017



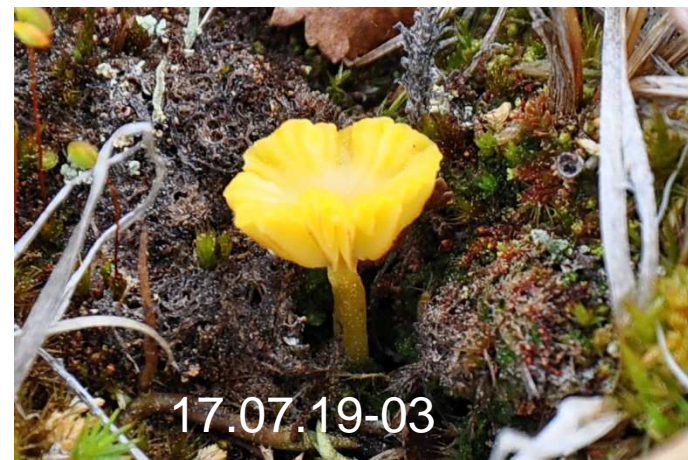
# Lichenomphalia umbellifera



# Lichenomphalia alpina



Lücking et al., 2017





# Arrhenia lobata



17.07.14-01



# Multiclavula vernalis







Спасибо!