

# Systematic Botany. Lecture 25

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# Outline

Questions and answers

Protista

Panalgae

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Panalgae

## Previous final question: the answer

Write the short characteristic of any phylum from today's lecture

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- ▶ Oomycota: fungi-like, but with rudiments of chloroplasts and heterokont flagella cells
- ▶ Radiolaria: floating, radial skeleton of spicules, network of reticulopodia

# Protista

# Panalgae

## Chromophyta—Pr-15–18, Pr-27

### Phylum 31. CHROMOPHYTA [ <sup>6</sup>*Fucus* ] <sup>87</sup>

- Classis 1(134). *Bacillariophyceae* [ <sup>5</sup>*Diatoma* ] s.a.<sup>88</sup>
- 2(135). *Dictyochophyceae* [ <sup>5</sup>*Dictyocha* ] <sup>89</sup>
- 3(136). *Pelagophyceae* [ <sup>5</sup>*Pelagomonas* ] <sup>90</sup>
- 4(137). *Eustigmatophyceae* [ <sup>5</sup>*Eustigmatos* ]
- 5(138). *Chrysophyceae* [ <sup>5</sup>*Chrysococcus* ] s.a.<sup>91</sup>
- 6(139). *Pinguiophyceae* [ <sup>5</sup>*Pinguiochrysis* ]
- 7(140). *Raphidophyceae* [ <sup>5</sup>*Rhaphidomonas* ]
- 8(141). *Phaeophyceae* [ <sup>5</sup>*Fucus* ] s.a.<sup>92</sup>

## Apicomplexa—Pr-7

Superphylum *Alveolata* [<sup>6.2</sup>*Paramecium*]

Phylum 32. MYZOOA [<sup>6</sup>*Peridinium*]

Subphylum ***Apicomplexa*** [<sup>5.8</sup>*Plasmodium*] s.a.

Classis 1(142). *Apicomonadea* [<sup>5</sup>*Colpodella*]<sup>93</sup>

2(143). *Chromerida* [<sup>5</sup>*Chromera*]

3(144). *Gregarinea* [<sup>5</sup>*Gregarina*]<sup>94</sup>

4(145). *Sporozoa* [<sup>5</sup>*Plasmodium*] s.s.<sup>95</sup>

## Dinoflagellates—Pr-5

### Subphylum *Dinozoa* [<sup>5,8</sup>*Peridinium*]

Classis 5(146). *Perkinsida* [<sup>5</sup>*Perkinsus*]<sup>96</sup>

6(147). *Ellobiopsea* [<sup>5</sup>*Ellobiopsis*]<sup>97</sup>

7(148). *Syndinea* [<sup>5</sup>*Syndinium*]<sup>98</sup>

8(149). *Oxyrridea* [<sup>5</sup>*Oxyrris*]

9(150). *Dinoflagellata* [<sup>5</sup>*Peridinium*]<sup>99</sup>

## Ciliates—Pr-6

Phylum 33. CILIOPHORA [<sup>6</sup>*Paramecium*]

Subphylum ***Postciliodesmatophora*** [<sup>5,8</sup>*Spirostomum*]

Classis 1(151). *Karyorelictea* [<sup>5</sup>*Trachelocera*]

2(152). *Heterotrichea* [<sup>5</sup>*Spirostomum*]

Subphylum ***Ventrata*** [<sup>5,8</sup>*Paramecium*]

Classis 3(153). *Phyllopharyngea* [<sup>5</sup>*Podophrya*]<sup>100</sup>

4(154). *Nassophorea* [<sup>5</sup>*Nassula*]<sup>101</sup>

5(155). *Colpodea* [<sup>5</sup>*Colpoda*]

6(156). *Prostomatea* [<sup>5</sup>*Prorodon*]

7(157). *Plagiopylea* [<sup>5</sup>*Plagiopyla*]

8(158). *Oligohymenophorea* [<sup>5</sup>*Paramecium*]

Subphylum ***Spirotrichia*** [<sup>5,8</sup>*Oxytricha*]

Classis 9(159). *Protocruziidea* *Protocruzia* sed.m.

10(160). *Spirotrichea* [<sup>5</sup>*Oxytricha*]<sup>102</sup>

Subphylum ***Lamellicorticata*** [<sup>5,8</sup>*Clevelandella*]

Classis 11(161). *Armophorea* [<sup>5</sup>*Clevelandella*]

12(162). *Litostomatea* [<sup>5</sup>*Spathidium*]

## Final question (2 points)

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Name at least four algal groups (higher than genera).

## For Further Reading



Margulis and Chapman. 2009.

*Kingdoms and domains: an illustrated guide to the phyla of life on Earth.* 4th edition.