



FIGURE 9.1. Various genera of Volvocales possess different types of multicellular organization. (A) *Gonium*; (B) *Pandorina*; (C) *Pleodorina californica*; and (D) *Volvox carteri*. In *Gonium* and *Pandorina*, cells are aggregated in specific geometries, but all the cells are identical. *Pleodorina* and *Volvox*, however, contain differentiated cell types (an external layer of somatic cells and internal reproductive cells) with distinctly different morphologies and functions.

9.1A,C,D, photos courtesy of Aurora M. Nedelcu, University of New Brunswick; 9.1B, M.J. Wynne, University of Michigan