pheral margin (Lacombe, 1970). Pedunculate species release cement as a single mass around the base of the peduncle. Sessile species secrete distinct, concentric rings of cement following expansion of the basis through radial growth. The rings may be physiologically linked to the moult cycle (Walker, 1992).



Figure 5.8 Cement glands of adult barnacles: (a) cement glands of *Lepas anatifera*; (b) histology of cement glands of *L. anatifera*; (c) histology of cement glands of *Balanus*. (d) cement glands of *Balanus*. cc = cement-secreting cells; cd = cement duct; ce = cement; cg = cement gland; cep = secondary cement **Para** (Modified after Lacombe and Liguori. 1969; Lacombe, 1970.)

ningled with cement-secret lobulated nuc. the cytoplasm proteins, phenis probably co. provides strong fluid and polym Dougherty, 199

5.5.2 Cirral gla

During mating i attractive to 'fund tion is based on t The timing of evo glands (Walley, posterior faces of is composed of for reservoir with an e and the mating cyc species with a sing year. Cirral glands (May), then gradua autumn. By Novei copulates in Nover chase of the breedi tre lost at the Janu Wooded larvae. Exp e of the cirral glan Inkton bloom. Crisp (1956) and Barnes (1957) Ividuals of the species do not liberate their stracts of whole barnacle in sea water Ince this substance was more potent Ince the potential substance was more potent Ince this substance was more potent Ince the potential substance was more potent was more potent Ince the potential substance was more potent was more pote

nism is more subtle than a diatoms *Skeletonema temia*) is necessary made to denser ' within one f the food direct hoth 8

53 Ovigerous frenae

Social Secretions have a second role in reproduction, in the attachment and the mantle cavity. Pedunculate cirripedes have minent ovigerous frenae (Chapter 6) to which the egg lamellae are. At the free end (Figure 5.9), these projections bear the openings amerous glands with proteinaceous contents. Each is a typical epinal gland consisting of four secretory cells with a common duct. of *Conchoderma auritum* have been studied in the most detail ther 1983, 1992). When acting as a functional female, *C. auritum* s just prior to copulation. The adhesive glands of the ovigerous attain maximum development at this moult. When oviposition