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Cover Illustration: Surface electrostatic potential maps of the lipophilic monocation methyltriphenylphosphonium and the lipophilic dications 1,2-ethanediylbis(triphenylphosphonium) and 1,6-hexanediylbis(triphenylphosphonium). Image kindly supplied by Michael Murphy (MRC Dunn Human Nutrition Unit, Cambridge, UK).