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**Cover:** An exceptionally well-preserved specimen (7.5 cm tall) of the primitive cup-shaped hexactinellid sponge *Diagoniella cyathiformis*. This thin-walled sponge was discovered in a new Burgess Shale-type deposit (about 505 Ma, Middle Cambrian—series 3) near Stanley Glacier (British Columbia). This fragile sponge was adapted to relatively deep, soft-bottom environments and had a very low preservation potential. See "A new Burgess Shale-type assemblage from the 'thin' Stephen Formation of the southern Canadian Rockies," by Caron et al., p. 811–814.

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