عنوان فارسی مقاله:
 تاريخچه تکاملی خانواده زنی Asr

عنوان انگلیسی مقاله:
Evolutionary history of the Asr gene family

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
The first conclusion drawn from this work is that some ASR proteins display intra-group identity. Those from tomato and potato (Solanaceae, dicots) form a consistent group, and so do those from the gymnosperm *Pinus taeda*. Such a pattern of intra-group identity could be caused by either concerted evolution or birth and death of genes (considering an ancestral *Asr* family). Another possibility is the occurrence of independent duplications after the divergence of these major lineages (only one ancestral *Asr* gene), or it may well be a combination of processes. In other gene families, their members are already divergent in sequence and function before cladogenesis, leading to a gene tree defining orthology relationships between members from different species (as in the case of the phytochromes; Alba et al., 2000).