



**SESSION
BL 7**

TITLE	Molecular origins and evolution of terrestrial arthropod bioluminescent systems		
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ABSTRACT	<p>Bioluminescence on the land is much less common than in the marine environment, being found among fungi, anellids, mollusks and mainly arthropods in temperate and tropical biomes. Whereas the biochemistry of the bioluminescent system of beetles is well characterized, the bioluminescent system of other terrestrial insects and arthropods still remain poorly studied with unidentified luciferins and luciferases. Furthermore, the evolution of complex bioluminescent systems such as those of fireflies remain poorly understood. In this session, recent advances on the understanding of the biochemical origin of novel terrestrial bioluminescent systems, as well as the molecular evolution of complex bioluminescent systems will be reported.</p>		
KEYWORDS	Bioluminescence, luciferases, luciferins, photogenic organs		