



		20 th Monday
16:00-19:00		REGISTRATION AT THE BOTANICAL GARDEN – MAIN ENTRANCE
19:00-22:00		ICE BREAK PARTY AT THE BOTANICAL GARDEN – “UMBRACLE”

		21 st Tuesday
9:00-9:20		OPENING CEREMONY
9:20-10:30	Henning Bloom (ONLINE)	INVITED SPEAKER Märss, T. Endolymphatic structures in headshields of the osteostracan genus <i>Tremataspis</i> (Agnatha) from the Silurian of Estonia
10:30-11:10		COFFEE BREAK / POSTER SESSION
		AGNATHANS
11:10-11:30	Per Ahlberg	Olive, S. et al. Enigmatic early chordates and vertebrates from the Lower Devonian of Belgium
11:30-11:50		Reeves, J. et al. Reviving <i>Lasanius</i> , an enigmatic Silurian jawless vertebrate at the split of cyclostomes and gnathostomes
11:50-12:10		Keating, P. et al. Development of the pteraspid cranial dermal skeleton and the evolution of vertebrate skeletal remodelling
12:10-12:30		Dearden, R. et al. Anatomy and function in the mouth of the Early Devonian heterostracan <i>Rhinopteraspis</i>
12:30-12:50		Randle, E. et al. A Phylogeny for Heterostraci
12:50-13:10		Vařkaninová, V. & Ahlberg, P. Unexpected hypophyseal morphology in basal stem gnathostomes challenges the consensus phylogeny of vertebrates
13:10-14:30		LUNCH



PLACODERMS		
14:30-15:10	Valeria Vaškaninová	KEYNOTE (ONLINE) Sallan, L. The conquest of the oceans by jawed vertebrates
15:10-15:30		Brazeau, M. et al. Early Devonian placoderms from Mongolia and new anatomical details of <i>Minjinia turgenensis</i>
15:30-15:50		Dupret, V. et al. Vertebrate bone remains from the Givetian (Middle Devonian) of Valentia Island (Ireland) – focus on <i>Bothriolepis</i> (Placodermi, Antiarcha) and palaeobiogeographic implications
15:50-16:10		Jobbins, M. et al. Description and ecomorphological reconstruction of a new selenosteid placoderm from the Late Devonian of the eastern Anti-Atlas (Morocco) with preserved body outline
16:10-16:50		COFFEE BREAK / POSTER SESSION
16:50-17:10	Piotr Szrek	Trinajstić, K. et al. New insights into assignment of the largest Gogo arthrodire to the genus <i>Eastmanostues</i> and implications for arthrodire phylogeny
17:10-17:30		(ONLINE) Lukševičs, E. Rare faunal elements from the Baltic Late Devonian: antiarchan placoderm <i>Walterilepis speciosa</i>
17:30-17:50		Grygorczyk, K. et al. A large Late Devonian (uppermost Frasnian) ptyctodont (Placodermi) from Poland
18:00-20:00		SOCIAL DRINKS AT THE BOTANICAL GARDEN – TERRACE OF THE “ESTUFA FREDA”

22 nd Wednesday		
9:00-9:40	Donglei Chen	KEYNOTE Miyashita, T. et al. The Head, Heart, and Fins of <i>Norsealaspis</i> – a glimpse into the origin of jawed vertebrates
9:40-10:00		Brazeau, M. The origin of the pectoral girdle
10:00-10:20		Long, J. et al. The evolution of the inner ear in basal gnathostomes



10:20-11:00		COFFEE BREAK / POSTER SESSION
11:00-11:20	Joseph Keating	Sansom, R. & Randle, E. Fossil bite marks in heterostracans support predation by jawed vertebrates as a factor in the demise of ostracoderms
11:20-11:40		Andreev, P. et al. Timing the origins and early diversification of jawed vertebrates, evidence from the lower Silurian of South China
CHONDRICHTHYANS		
11:40-12:00	Richard Dearden	Itano, W. <i>Psephodus</i> and the transition from teeth to tooth plates in holocephalians
12:00-12:20		Ginter, M. The interrelationships of Devonian omalodontiform sharks
12:20-12:40		Luccisano, V. et al. Systematics, ontogeny and palaeobiogeography of the large xenacanth <i>Orthacanthus</i> from the lower Permian of France
12:40-13:00		Leyhr, J. et al. A 3D histological survey of the vertebrate jaw cartilage with implications for chondrichthyan skeletal evolution
13:00-14:30		LUNCH
KEYNOTE		
14:30-15:10	Mike Coates	Klug, C. et al. New early vertebrate-treasures from the Late Devonian of the Moroccan Anti-Atlas
15:10-15:30		Greif, M. et al. A minute chondrichthyan Meckel's cartilage from the Hangenberg Black Shale in Morocco and its position in chondrichthyan jaw morphospace
15:30-15:50		Schentz, L. Diversity patterns of early chondrichthyans
15:50-16:10		Flament, R. et al. Developmental pattern of fin spines and scales of the Early Devonian shark <i>Wellerodus priscus</i> from the Cairo Lagerstätte (New York, USA)
16:10-16:50		COFFEE BREAK / POSTER SESSION
16:50-17:10	Donald Davesne	Venkataraman, V. et al. Evolution and development of the anterior lateral line - new insights from Elasmobranchs
ACTINOPTERYGIANS		
17:10-17:30	Donald Davesne	Chen, D. et al. 'Natural experiments' reveal patterning logic of the dental development in the most primitive osteichthyan <i>Lophosteus</i>



17:30-17:50		(ONLINE) Mickle, K. The dermosphenotic, intertemporal and supratemporal in lower actinopterygian fishes
19:00-20:30		GUIDED TOUR TO VALENCIA'S OLD TOWN

23 rd Thursday		
9:00-9:40	Martin Brazeau	KEYNOTE Giles, S. Revisiting the rise of the ray-finned fishes
9:40-10:00		Henderson, S. et al. Diversity estimates and paleogeographical patterns for Palaeozoic ray-finned fishes (Actinopterygii)
10:00-10:20		Vanhaesebroucke, O. & Cloutier, R. Early actinopterygian diversification or how to “get in shape” after a crisis
10:20-11:00		COFFEE BREAK / POSTER SESSION
11:00-11:20	Sébastien Olive	Burrow, C. et al. Dermal skeleton of the stem osteichthyan <i>Ligulalepis</i> from the Lower Devonian of New South Wales
11:20-11:40		Caron, A. et al. Rethinking actinopterygian roots: new estimates using endoskeletal data from <i>Trawdenia planti</i>
11:40-12:00		During, M. & Ahlberg, P.E. A Terminal Mesozoic Paddlefish from Tanis (ND, USA) – unique preservation of a K-Pg impact victim
12:00-12:20		Johanson, Z. et al. Mechanisms of dermal bone repair after predatory attack in the giant stem-group teleost <i>Leedsichthys problematicus</i> Smith Woodward, 1889 (Pachycormiformes)
12:20-12:40		Davesne, D. The evolution of canalicles of Williamson in actinopterygian bone
12:40-13:00		Houle, L. et al. Morphometric variation of cranial nerve foramina in a model fish, the zebrafish (<i>Danio rerio</i>): phylogenetic implications
13:00-14:50		LUNCH



		SARCOPTERYGIANS
14:50-15:10	Zerina Johanson	Long, J. et al. Observations on a new sarcopterygian fish from the Late Devonian (Frasnian) of the Gogo Formation, Western Australia
15:10-15:30		Cloutier, R. et al. History of the coelacanth fishes: phylogeny, disparity and diversification
15:30-15:50		Mondéjar Fernández, J. et al. The exceptionally preserved branchial skeleton of a new coelacanth from the Late Carboniferous of Texas (USA)
15:50-16:10		Cuidad Real, M. et al. 3D reconstruction and phylogenetic relationships of <i>Grossius aragonensis</i> (Osteichthyes, Sarcopterygii)
16:10-16:50		COFFEE BREAK / POSTER SESSION
16:50-17:10	John Long	Szrek, P. et al. A new fossil record of the Early Devonian dipnoans behaviour from the Holy Cross Mountains, Poland
17:10-17:30		Gess, R. & Ahlberg, P.E. A new Famennian species of <i>Hyneria</i> from the terra incognita of southern Gondwana – evidence from the Waterloo Farm Lagerstätte in South Africa
17:30-18:00		ONLINE POSTER SESSION
	Organising Committee	This session is for the presentation of online posters and for the possible questions about the posters by part of the people who attend online

		24 th Friday
		TETRAPODS
9:00-9:40	Richard Cloutier	KEYNOTE Sanchez, S. Early limb-bone evolution
9:40-10:00		Ahlberg, P. E. et al. Trackways of a terrestrially competent tetrapod from the Middle Devonian of Ireland
10:00-10:20		Byrne, H. et al. A new tetrapod from the terminal Famennian of East Greenland



10:20-11:00		COFFEE BREAK / POSTER SESSION
11:00-11:20	Richard Cloutier	Coates, M. et al. Testing phylogenetic signal consistency in the early tetrapod record
11:20-11:40		Otoo, B. et al. The shape of things to come: reexamining early tetrapod evolution after the end-Devonian mass extinction
11:40-12:50	Alan Pradel	INVITED SPEAKER Janvier, P. Early vertebrates: on the importance of reputedly insignificant specimens
12:50-13:30		CLOSING BUSINESS
		Next Symposium
13:30		LUNCH
19:00		BUS TO CONFERENCE DINNER
		The bus will leave from the Botanical Garden
20:30		CONFERENCE DINNER
		In the "Masia Santa Rita" restaurant at the Albufera Natural Park



POSTERS

1. **Itano, W. & Duffin, C.** An enigmatic chondrichthyan rostral cartilage from the Carboniferous of North America that resembles that of *Squaloraja*.
2. **Shen, C. & Arratia, G.** Triassic times and the early radiation of 'flying' fishes (Neopterygii, †Thoracopteroidea) - ONLINE POSTER SESSION
3. **Grohgan, M. et al.** Testing hypotheses on heterostracan feeding using CFD and FEA.
4. **Korneisel, D. E. & Maddin, H. C.** Biomechanics of the Head-Neck Boundary in Early Tetrapods.
5. **Johanson, Z. et al.** Feeding in the Devonian antiarch placoderm fishes: a study based upon morpho-functional analysis of jaws.
6. **Wilk, O. et al.** Environmental differentiation reflected in vertebrate fauna diversity in the Lower Devonian of the Holy Cross Mountains, Poland.
7. **Wilk, O.** General look on the sarcopterygians from the Placoderm Sandstone from the Holy Cross Mountains, Poland with special reference to the porolepiforms.
8. **Wilk, O. et al.** Lower Devonian porolepiformes from the Canadian Arctic
9. **Szrek, P. et al.** A new Late Devonian *Dunkleosteus* from Lompret, southern Belgium.
10. **Beznosov, P. et al.** New Late Devonian vertebrate locality in the Sosnogorsk Formation (South Timan, NE Europe).
11. **Turner, S.** To Shed or not to Shed, THAT is the question.
12. **Zevallos, L. et al.** First Chondrichthyan and Actynopterygian remains from the Upper Pennsylvanian of Perú

