Curriculum Vitae

Faviel A. López Romero

M. Sc., Dipl.-Biol.

Address

Department of Palaeontology
Faculty of Earth Science, Geography and Astronomy
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Education

August 2009 – January 2012: Master of Chemical-Biological Sciences,
Department of Zoology, National Polytechnic Institute
Thesis title: Thesis: Sodium Pentachlorophenate toxicity to zebrafish embryos: Fluctuating asymmetry estimation and retinoic acid disruption.

August 2003 – January 2008: Diploma studies, Biology
Department of Zoology, National Polytechnic Institute, Mexico
Thesis title: Ichthyofauna of Champotón River, Campeche, México. Diversity and Spatial Analysis

Professional Experience

Since July 2017 Prea doc, University of Vienna, Austria
2015 – 2016 Teaching Assistant, National Autonomous University of Mexico
2008 – 2009 Basic Biology tearcher, Remedial Education at Institute of Intensive Studies, México
April – June 2008 Environmental consultant, Specialized Consultancy in Urban Development and Real-State Viability

Research Grants

2019 Early-stage Researchers Travel grant (Meeting of the International Society of Vertebrate Morphologists)
2018 Early-stage Researchers Travel Grant (Meeting of the European Society for Evolutionary Developmental Biology)
2011: Master Studies "Institutional Scholarship" (National Polytechnic Institute, México)
2009: Master Studies scholarship National Council of Science and Technology (CONACYT, México)

Academic / Professional Societies

European Society for Evolutionary Developmental Biology

Field Work (related to long-term projects)

January/December 2007: Freshwater fish diversity and health assessment of Champoton river, Campeche, México.

Conferences and Symposia

Conference presentations

• 3rd International Workshop on the Toarcian Oceanic Anoxic Event, Erlangen, Germany (Sept. 2019)

Talk On the diversity of Early Jurassic cartilaginous fishes across the Toarcian Oceanic Anoxic Event (Co-authors: S. Stumpf (presenter) & J. Kriwet)

• 90th Annual Meeting of the Paleontological Society (Paläontologische Gesellschaft) (Sept. 2019)

Talk Of teeth and spines: The riddle of Strophodus' (Hybodontiformes, Chondrichthyes) validity (Co-authors: S. Stumpf (presenter), F. López-Romero & R. Kindlimann).

• 12th International Congress of Vertebrate Morphology (ICVM), Prague, Czech Republic (July 2019)

Poster Timing of jaw shape remodelling during development in bamboo shark and catshark (Chondrichthyes: Galeomorphii) to promote species-specific feeding mechanisms (Co-authors: F. López- Romero (presenter) & D. Abed-Navandi).

Talk Never change a winning team: the Jurassic skeletal fossil record of †Hybodontiformes reveals new insights into taxonomic diversity and ecomorphological disparity of Mesozoic (Co-authors: S. Stumpf (presenter), J. Kriwet & R. Kindlimann).

• Comparative Cartilage Biology Conference – Integrating Biomaterials - Biomedicine – EvoDevo of Cartilage, Banyuls sur Mer, France (June 2019)

Talk Timing of jaw shape remodeling in shark development to establish species-specific feeding mechanisms (Co-authors: D. Abed-Navandi & J. Kriwet).

• 46th Arbeitskreistreffen Wirbeltierpaläontologie. Vienna, Austria. (March, 2019)

Talk Modularity and integration in squatiniform shark skulls and its possible role to promote divergence (Co-authors: Pfaff C, Marramà G, Johanson Z, Kriwet J. 2019.

• 22nd Annual European Elasmobranch Association Meeting, Peniche, Portugal (Oct. 2018)

Talk The potential fate of the thresher shark – a fossil tale of an alopiid-like shark. (Co-authors: P.L. Jambura (presenter), B. Pohl, J. Kriwet).

• EURO EVO DEVO, Galway, Ireland (June 2018)

Poster Ontogenetic shape changes in the body and head of *Chlamydoselachus anguineus*. (Co-authors: C. Klimpfinger & J. Kriwet).

• 19. Jahrestagung Gesellschaft für Biologische Systematik (Feb. 2018)

Talk Ontogenetic shape changes in the body and head of *Chlamydoselachus anguineus*. (Co-authors: C. Klimpfinger, & J Kriwet).

Publications

Scientific Publications

López-López, E., Sedeño-Díaz, J.E., **López-Romero, F**., and Trujillo-Jiménez, P., 2009. Spatial and seasonal distribution patterns of fish assemblages in the Río Champotón, southeastern Mexico. Reviews in Fish Biology and Fisheries. 19(2): 127-142

López-Romero, F., Zúñiga G., Martínez-Jerónimo, F. 2012. Asymmetric patterns in the cranial skeleton of zebrafish (Danio rerio) exposed to sodium pentachlorophenate at different embryonic developmental stages. Ecotoxicology and Environmental Safety. 84: 25-31

Jambura, P.L., Kindlimann, R., **López-Romero, F.**, Marramà, G., Pfaff, C., Stumpf, S., Türtscher, J., Underwood, C.J., Ward, D.J. & Kriwet J. 2019. Micro-computed tomography imaging reveals the development of a unique tooth mineralization pattern in mackerel sharks (Chondrichthyes; Lamniformes) in deep time. – Scientific Reports, 9, 9652: 1–13. DOI: 10.1038/s41598-019-46081-3.

Conference Abstracts

López-Romero, F.A., Klimpfinger, C., Tanaka, S. & Kriwet, J. 2018. Ontogenetic shape changes in the body and head of Chlamydoselachus anguineus. – In: Schwarz, C., Zimmermann, D. & Kriwet, J. (eds): 19. Jahrestagung Gesellschaft für Biologische Systematik, Abstract volume: 29; Verlag Dr. Friedrich Pfeil, Munich.

López-Romero, F.A., Klimpfinger, C. & Kriwet, J. 2018. Ontogenetic shape changes in the head of the frilled shark Chlamydoselachus anguineus. – EURO EVO DEVO, Abstract volume: 347; Galway, Ireland.

Jambura, P.L., **López-Romero, F.A**, Pohl, B., Kriwet, J. 2018. The potential fate of the thresher shark -a fossil tale of an alopiid-like shark. – The 22nd European Elasmobranch Association Annual Scientific Conference, Peniche, Abstracts.

López-Romero F, Abed-Navandi D, Kriwet J. 2019. Timing of jaw shape remodeling in shark development to establish species-specific feeding mechanisms. Comparative Cartilage Biology Banyuls Sur Mer, France, Abstract Volume: 22.

López-Romero F., Abed-Navandi D., Kriwet J. 2019. Timing of jaw shape remodelling during development in bamboo shark and catshark (Chondrichthyes: Galeomorphii) to promote species-specific feeding mechanisms. – Journal of Morphology, Supplement 280 (International Congress of Vertebrate Morphology (ICVM) Abstract Issue): 167.

Stumpf, S., **López-Romero F**., Kindlimann, R. & Kriwet, J. 2019. Never change a winning team: the Jurassic skeletal fossil record of †Hybodontiformes reveals new insights into taxonomic diversity and ecomorphological disparity of Mesozoic. – Journal of Morphology, Supplement 280 (International Congress of Vertebrate Morphology (ICVM) Abstract Issue): 226.

Stumpf, S., **López-Romero F**., Kindlimann, R. & Kriwet, J. 2019. Of teeth and spines: The riddle of Strophodus' (Hybodontiformes, Chondrichthyes) validity. – In: Nützel , A., Reichenbacher , B. & Krings , M. (eds): Paleo & Life – Abstracts of the 90 th Annual Meeting of the Paläontologische Gesellschaft, Munich: 143; SNSB-BSPG, München.

Stumpf, S., **López-Romero F.A.** & Kriwet, J. 2019. On the diversity of Early Jurassic cartilaginous fishes across the Toarcian Oceanic Anoxic Event. – PeerJ Preprints.