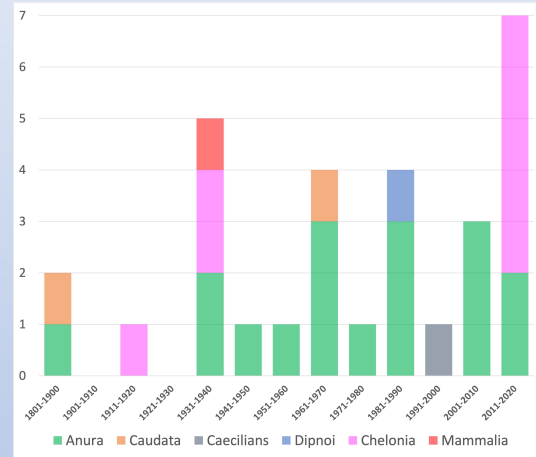


Polystomatidae (Monogenea): An overview of the current taxonomy

Introduction

- Globally distributed.
- Studied in pockets of research.
- 30 genera currently known.
- 180+ species globally.
- Few people focusing on polystomatids.

History of polystomatid genus descriptions



Current genera

<i>Diplorchis</i>	<i>Pseudopolystoma</i>
<i>Eupolystoma</i>	<i>Sphyranura</i>
<i>Indopolystoma</i>	
<i>Kankana</i>	<i>Nanopolystoma</i>
<i>Madapolystoma</i>	
<i>Mesopolystoma</i>	<i>Concinnocotyla</i>
<i>Metapolystoma</i>	
<i>Neodiplorchis</i>	<i>Apalonotrema</i>
<i>Neoriojatrema</i>	<i>Aussietrema</i>
<i>Parapolystoma</i>	<i>Fornixtrema</i>
<i>Parapseudopolystoma</i>	<i>Neopolystoma</i>
<i>Polystoma</i>	<i>Uteropolystomoides</i>
<i>Protopolystoma</i>	<i>Uterotolystomoides</i>
<i>Pseudodiplorchis</i>	<i>Polystomoidella</i>
<i>Riojatrema</i>	<i>Polystomoides</i>
<i>Sundapolystoma</i>	
<i>Wetapolystoma</i>	<i>Oculotrema</i>

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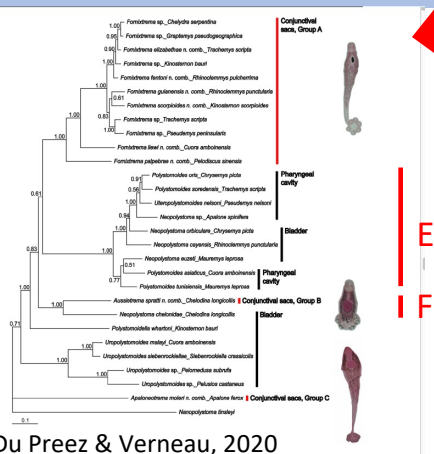
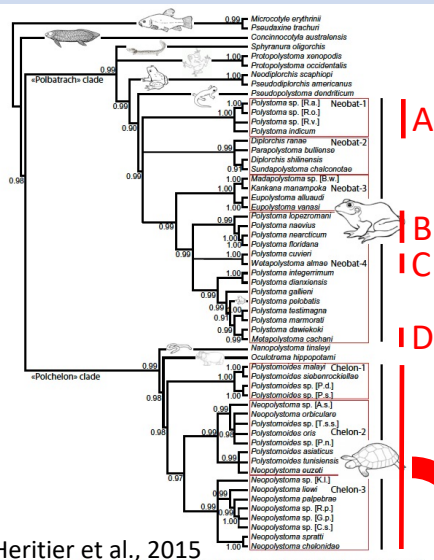


Requires investigation

- A – Addressed – Now *Indopolystoma*.
- B – Neotropical *Polystoma* show some unique morphological characteristics.
- C – *Wetapolystoma* not supported.
- D – *Metapolystoma* needs validation.
- E – Cluster needs a thorough relook. *Uteropolystoma* probably not valid.
- F - Australian bladder form probably a new genus.

Future directions

- Global distribution not a true picture but rather indication research effort.
- Polystomatids globally poorly studied.
- No intermediate hosts - Perfect model to study host-parasite interaction.
- Host-parasite coevolution provides unique source of information.
- Resolve grey areas in taxonomy.



Du Preez & Verneau, 2020