**Supplementary Table 1**. Methodologies and conclusions on the presence of a specialized conduction system in reptiles. (The numbers refer to References of Supplementary Table 1).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Anatomy | Electrophysiology | Expression | Specialized - yes | Specialized - no |
|  |  |  |  | 1,5 |
|  |  |  | 16,26 | 3,4,6,7,20,38,50 |
|  |  |  | 40,42,43 | 9,45,46 |
|  |  |  | 8,23,28,31,32,35 | 10,22,24,25,33,36,37,38,  39,41,44,47,48,49 |

The following studies on the reptile heart, could, but do not, concern the presence of specialized conduction system in reptiles 2,11-15,17-19,21,27,29-30,34,45,50.