**PLOS One**

**Tiny bird, huge mystery—the Possibly Extinct Hooded Seedeater (*Sporophila melanops*) is a capuchino with a melanistic cap**

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**S1 Table. Genetic *p*-distances for *COI*.** Pairwise divergence of the sequences of the male holotype of *Sporophila melanops* and the presumed female to available sequences of *Sporophila* in GenBank (as of 29 February 2016). Roman numerals refer to the well-supported clades identified by Mason and Burns [17].

|  |  |  |  |
| --- | --- | --- | --- |
| Clade | Species | GenBank number\* | Divergence to |
| Holotype | Female |
| I | *Sporophila lineola* | **Spolin1** | 0.0662 | 0.0882 |
| I | *Sporophila lineola* | JN801992 | 0.0662 | 0.0882 |
| II | *Sporophila leucoptera* | KM896574 | 0.0394 | 0.0787 |
| II | *Sporophila leucoptera* | FJ028316 | 0.0397 | 0.0714 |
| III | *Sporophila hypoxantha* | KF316391 | 0.0000 | 0.0690 |
| III | *Sporophila hypoxantha* | KF316390 | 0.0000 | 0.0693 |
| III | *Sporophila hypoxantha* | KF316384 | 0.0000 | 0.0636 |
| III | *Sporophila hypoxantha* | GU070603 | 0.0000 | 0.0787 |
| III | *Sporophila hypoxantha* | GU070601 | 0.0000 | 0.0614 |
| III | *Sporophila hypoxantha* | GU070600 | 0.0000 | 0.0707 |
| III | *Sporophila hypoxantha* | FJ028312 | 0.0000 | 0.0720 |
| III | *Sporophila melanogaster* | GU070609 | 0.0000 | 0.0761 |
| III | *Sporophila melanogaster* | GU070608 | 0.0000 | 0.0795 |
| III | *Sporophila melanogaster* | GU070607 | 0.0000 | 0.0795 |
| III | *Sporophila palustris* | KF316399 | 0.0000 | 0.0700 |
| III | *Sporophila pileata* | GU070599 | 0.0000 | 0.0631 |
| III | *Sporophila pileata* | GU070598 | 0.0000 | 0.0680 |
| III | *Sporophila pileata* | GU070597 | 0.0000 | 0.0693 |
| III | *Sporophila pileata* | GU070594 | 0.0000 | 0.0693 |
| III | *Sporophila ruficollis* | GU070613 | 0.0000 | 0.0693 |
| III | *Sporophila ruficollis* | FJ028320 | 0.0000 | 0.0794 |
| III | *Sporophila ruficollis* | FJ028319 | 0.0000 | 0.0636 |
| III | *Sporophila bouvreuil* | JN801989 | 0.0074 | 0.0809 |
| III | *Sporophila melanogaster* | **Spomel2** | 0.0074 | 0.0809 |
| III | *Sporophila melanogaster* | **Spomel1** | 0.0074 | 0.0809 |
| III | *Sporophila palustris* | **Spopal1** | 0.0074 | 0.0809 |
| III | *Sporophila hypoxantha* | GU070604 | 0.0078 | 0.0775 |
| III | *Sporophila melanogaster* | GU070610 | 0.0078 | 0.0775 |
| III | *Sporophila melanogaster* | GU070605 | 0.0078 | 0.0775 |
| III | *Sporophila bouvreuil* | KF316375 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316374 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316373 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316372 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316371 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316370 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316368 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316367 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316366 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316365 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316364 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316363 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316362 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316361 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316360 | 0.0079 | 0.0787 |
| III | *Sporophila bouvreuil* | KF316359 | 0.0079 | 0.0787 |
| III | *Sporophila cinnamomea* | KF316376 | 0.0079 | 0.0787 |
| III | *Sporophila cinnamomea* | JQ176250 | 0.0079 | 0.0787 |
| III | *Sporophila cinnamomea* | JQ176249 | 0.0079 | 0.0787 |
| III | *Sporophila cinnamomea* | FJ028305 | 0.0079 | 0.0787 |
| III | *Sporophila hypochroma* | KF316377 | 0.0079 | 0.0787 |
| III | *Sporophila hypochroma* | FJ028311 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316398 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316394 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316393 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316389 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316387 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316386 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316385 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316382 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316381 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | FJ028314 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | FJ028313 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | KF316403 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | KF316402 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | KF316401 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | KF316400 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | FJ028318 | 0.0079 | 0.0787 |
| III | *Sporophila palustris* | FJ028317 | 0.0079 | 0.0787 |
| III | *Sporophila palustris "zelichi"* | FJ028322 | 0.0079 | 0.0787 |
| III | *Sporophila pileata* | KF316357 | 0.0079 | 0.0787 |
| III | *Sporophila pileata* | KF316356 | 0.0079 | 0.0787 |
| III | *Sporophila pileata* | KF316355 | 0.0079 | 0.0787 |
| III | *Sporophila pileata* | KF316354 | 0.0079 | 0.0787 |
| III | *Sporophila ruficollis* | FJ028321 | 0.0079 | 0.0787 |
| III | *Sporophila hypoxantha* | KF316392 | 0.0079 | 0.0794 |
| III | *Sporophila cinnamomea* | FJ028304 | 0.0080 | 0.0800 |
| III | *Sporophila hypoxantha* | KF316396 | 0.0080 | 0.0800 |
| III | *Sporophila melanogaster* | GU070611 | 0.0081 | 0.0726 |
| III | *Sporophila hypoxantha* | KF316378 | 0.0091 | 0.0727 |
| III | *Sporophila hypoxantha* | KF316380 | 0.0099 | 0.0792 |
| III | *Sporophila melanogaster* | GU070606 | 0.0099 | 0.0792 |
| III | *Sporophila pileata* | GU070595 | 0.0100 | 0.0800 |
| III | *Sporophila hypoxantha* | Spohyp-1 | 0.0147 | 0.0882 |
| III | *Sporophila bouvreuil* | KF316369 | 0.0157 | 0.0866 |
| III | *Sporophila bouvreuil* | KF316358 | 0.0157 | 0.0866 |
| III | *Sporophila hypoxantha* | KF316395 | 0.0157 | 0.0866 |
| III | *Sporophila hypoxantha* | KF316379 | 0.0157 | 0.0866 |
| III | *Sporophila hypoxantha* | FJ028315 | 0.0157 | 0.0866 |
| III | *Sporophila hypoxantha* | KF316397 | 0.0159 | 0.0635 |
| III | *Sporophila minuta* | GU070591 | 0.0194 | 0.0680 |
| III | *Sporophila minuta* | GU070590 | 0.0196 | 0.0686 |
| III | *Sporophila minuta* | GU070587 | 0.0198 | 0.0693 |
| III | *Sporophila minuta* | GU070589 | 0.0220 | 0.0769 |
| III | *Sporophila minuta* | GU070586 | 0.0227 | 0.0795 |
| III | *Sporophila minuta* | JQ176257 | 0.0236 | 0.0787 |
| III | *Sporophila minuta* | JQ176255 | 0.0236 | 0.0787 |
| III | *Sporophila minuta* | GU070592 | 0.0236 | 0.0787 |
| III | *Sporophila minuta*  | **Spominmin2** | 0.0294 | 0.0735 |
| III | *Sporophila minuta*  | **Spominmin1** | 0.0294 | 0.0735 |
| III | *Sporophila minuta* | JQ176256 | 0.0309 | 0.0825 |
| III | *Sporophila minuta* | KM894380 | 0.0417 | 0.0833 |
| III | *Sporophila castaneiventris* | GU070584 | 0.0481 | 0.1154 |
| III | *Sporophila castaneiventris* | GU070585 | 0.0485 | 0.1165 |
| III | *Sporophila minuta* | DQ434138 | 0.0543 | 0.0775 |
| III | *Sporophila minuta* | DQ434137 | 0.0543 | 0.0775 |
| III | *Sporophila* "*torqueola*" [= *minuta*] | KM894383 | 0.0556 | 0.0926 |
| III | *Sporophila minuta* | KM894378 | 0.0565 | 0.0806 |
| III | *Sporophila minuta* | KM894377 | 0.0565 | 0.0806 |
| III | *Sporophila castaneiventris* | GU070583 | 0.0620 | 0.1163 |
| IV | *Oryzoborus crassirostris* | JQ175642 | 0.0420 | 0.0588 |
| IV | *Oryzoborus angolensis* | JQ175641 | 0.0630 | 0.0866 |
| IV | *Oryzoborus angolensis* | FJ027930 | 0.0630 | 0.0866 |
| IV | *Oryzoborus angolensis* | FJ027929 | 0.0630 | 0.0866 |
| IV | *Oryzoborus angolensis* | FJ027928 | 0.0630 | 0.0866 |
| IV | *Oryzoborus crassirostris* | JQ175644 | 0.0630 | 0.0551 |
| IV | *Oryzoborus crassirostris* | JQ175643 | 0.0630 | 0.0551 |
| IV | *Oryzoborus angolensis* | KM896483 | 0.0709 | 0.0945 |
| V | *Sporophila intermedia* | JQ176254 | 0.0787 | 0.0551 |
| V | *Sporophila intermedia* | JQ176253 | 0.0787 | 0.0551 |
| V | *Sporophila intermedia* | JQ176252 | 0.0787 | 0.0551 |
| V | *Sporophila americana* | JQ176248 | 0.0866 | 0.0630 |
| V | *Sporophila americana* | JQ176247 | 0.0866 | 0.0630 |
| V | *Sporophila americana* | JQ176246 | 0.0866 | 0.0630 |
| VI | *Sporophila torqueola* | KM894381 | 0.0645 | 0.0887 |
| VI | *Sporophila* "*minuta*" [= *torqueola*] | KM894379 | 0.0787 | 0.0945 |
| VI | *Sporophila torqueola* | KM894384 | 0.0787 | 0.0945 |
| VI | *Sporophila torqueola* | KM894382 | 0.0787 | 0.0945 |
| VI | *Sporophila torqueola* | JN801378 | 0.0787 | 0.0945 |
| VII | *Dolospingus fringilloides* | JQ174710 | 0.0614 | 0.0351 |
| VII | *Sporophila nigricollis* | JQ176258 | 0.0787 | 0.0236 |
| VII | *Sporophila nigricollis* | KM896576 | 0.0794 | 0.0238 |
| VII | *Sporophila nigricollis* | KM896575 | 0.0794 | 0.0238 |
| VII | *Sporophila nigricollis* | JN801994 | 0.0809 | 0.0221 |
| VII | *Sporophila nigricollis* | JN801993 | 0.0809 | 0.0221 |
| VII | *Sporophila nigricollis* | **Sponignig4** | 0.0809 | 0.0221 |
| VII | *Sporophila nigricollis* | **Sponignig3** | 0.0809 | 0.0221 |
| VII | *Sporophila nigricollis* | **Sponignig1** | 0.0809 | 0.0221 |
| VII | *Sporophila caerulescens* | JQ627352 | 0.0855 | 0.0171 |
| VII | *Dolospingus fringilloides* | JQ174709 | 0.0866 | 0.0472 |
| VII | *Sporophila caerulescens* | KM896572 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028303 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028302 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028301 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028300 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028299 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | FJ028298 | 0.0866 | 0.0000 |
| VII | *Sporophila caerulescens* | **Spocaecae1** | 0.0882 | 0.0000 |
| VII | *Sporophila caerulescens* | JN801990 | 0.0882 | 0.0000 |
| VII | *Sporophila luctuosa* | **Spoluc1** | 0.0882 | 0.0147 |
| VII | *Sporophila nigricollis* | **Sponignig2** | 0.0882 | 0.0000 |
| VII | *Sporophila nigricollis* | JQ176259 | 0.1024 | 0.0157 |
| VII | *Sporophila nigricollis vivida* | **Sponigviv1** | 0.1029 | 0.0294 |
| VIII | *Sporophila schistacea* | JQ176264 | 0.0417 | 0.0583 |
| IX | *Sporophila collaris* | FJ028306 | 0.0412 | 0.0619 |
| IX | *Sporophila collaris* | FJ028307 | 0.0476 | 0.0556 |
| IX | *Sporophila collaris* | JQ176251 | 0.0551 | 0.0551 |
| IX | *Sporophila collaris* | FJ028310 | 0.0551 | 0.0551 |
| IX | *Sporophila collaris* | FJ028309 | 0.0551 | 0.0551 |
| IX | *Sporophila collaris* | FJ028308 | 0.0551 | 0.0551 |
| IX | *Sporophila collaris* | JN801991 | 0.0588 | 0.0515 |
| IX | *Sporophila plumbea* | JQ176262 | 0.0630 | 0.0630 |
| IX | *Sporophila plumbea* | JQ176261 | 0.0630 | 0.0551 |
| IX | *Sporophila plumbea* | JQ176260 | 0.0630 | 0.0551 |
| IX | *Sporophila collaris* | KM896573 | 0.0709 | 0.0630 |
| IX | *Sporophila albogularis* | **Spoalb-1** | 0.0882 | 0.0735 |

\* Sequences in bold refer to our own data (see Table 1 in text and S3 Table).