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

Juan Ignacio Areta, Vítor de Q. Piacentini, Elisabeth Haring, Anita Gamauf, Luís Fábio Silveira, Erika Machado, Guy M. Kirwan

**S2 Table. Genetic *p*-distances for *Cyt-b*.** 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* | JN810142 | 0.1308 | 0.1154 |
| I | *Sporophila lineola* | **Spolin1** | 0.1308 | 0.1154 |
| II | *Sporophila leucoptera* | JN677025 | 0.0306 | 0.0306 |
| II | *Sporophila simplex* | JN810149 | 0.0462 | 0.0308 |
| II | *Sporophila telasco* | JN810150 | 0.0462 | 0.0308 |
| II | *Sporophila leucoptera* | JN810141 | 0.0538 | 0.0615 |
| II | *Sporophila leucoptera* | AY387431 | 0.0556 | 0.0397 |
| II | *Sporophila peruviana* | JN810147 | 0.0615 | 0.0462 |
| III | *Sporophila bouvreuil* | KF234241 | 0.0000 | 0.0308 |
| III | *Sporophila bouvreuil* | JN676994 | 0.0000 | 0.0256 |
| III | *Sporophila cinnamomea* | KF316448 | 0.0000 | 0.0198 |
| III | *Sporophila cinnamomea* | JN810134 | 0.0000 | 0.0308 |
| III | *Sporophila cinnamomea* | JN677008 | 0.0000 | 0.0196 |
| III | *Sporophila cinnamomea* | JN677007 | 0.0000 | 0.0196 |
| III | *Sporophila cinnamomea* | AY387423 | 0.0000 | 0.0317 |
| III | *Sporophila cinnamomea* | AY387422 | 0.0000 | 0.0317 |
| III | *Sporophila cinnamomea* | AY387421 | 0.0000 | 0.0317 |
| III | *Sporophila cinnamomea* | AY387420 | 0.0000 | 0.0317 |
| III | *Sporophila hypochroma* | KF316449 | 0.0000 | 0.0198 |
| III | *Sporophila hypochroma* | JN810139 | 0.0000 | 0.0308 |
| III | *Sporophila hypochroma* | AY387428 | 0.0000 | 0.0317 |
| III | *Sporophila hypochroma* | AY387427 | 0.0000 | 0.0317 |
| III | *Sporophila hypoxantha* | KF316470 | 0.0000 | 0.0196 |
| III | *Sporophila hypoxantha* | KF316469 | 0.0000 | 0.0233 |
| III | *Sporophila hypoxantha* | KF316468 | 0.0000 | 0.0196 |
| III | *Sporophila hypoxantha* | KF316466 | 0.0000 | 0.0233 |
| III | *Sporophila hypoxantha* | KF316464 | 0.0000 | 0.0263 |
| III | *Sporophila hypoxantha* | KF316463 | 0.0000 | 0.0263 |
| III | *Sporophila hypoxantha* | KF316462 | 0.0000 | 0.0317 |
| III | *Sporophila hypoxantha* | KF316460 | 0.0000 | 0.0202 |
| III | *Sporophila hypoxantha* | KF316459 | 0.0000 | 0.0263 |
| III | *Sporophila hypoxantha* | KF316458 | 0.0000 | 0.0263 |
| III | *Sporophila hypoxantha* | KF316454 | 0.0000 | 0.0263 |
| III | *Sporophila hypoxantha* | KF316453 | 0.0000 | 0.0235 |
| III | *Sporophila hypoxantha* | JN810140 | 0.0000 | 0.0308 |
| III | *Sporophila hypoxantha* | JN677023 | 0.0000 | 0.0222 |
| III | *Sporophila hypoxantha* | JN677021 | 0.0000 | 0.0187 |
| III | *Sporophila hypoxantha* | JN677020 | 0.0000 | 0.0187 |
| III | *Sporophila hypoxantha* | JN677019 | 0.0000 | 0.0256 |
| III | *Sporophila hypoxantha* | JN677018 | 0.0000 | 0.0187 |
| III | *Sporophila hypoxantha* | JN677017 | 0.0000 | 0.0187 |
| III | *Sporophila hypoxantha* | JN677016 | 0.0000 | 0.0187 |
| III | *Sporophila hypoxantha* | JN677015 | 0.0000 | 0.0198 |
| III | *Sporophila hypoxantha* | AY387430 | 0.0000 | 0.0317 |
| III | *Sporophila hypoxantha* | AY387429 | 0.0000 | 0.0317 |
| III | *Sporophila hypoxantha* | **Spohyp1** | 0.0000 | 0.0308 |
| III | *Sporophila melanogaster* | JN810144 | 0.0000 | 0.0308 |
| III | *Sporophila melanogaster* | JN677032 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677031 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677030 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677029 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677028 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677027 | 0.0000 | 0.0196 |
| III | *Sporophila melanogaster* | JN677026 | 0.0000 | 0.0189 |
| III | *Sporophila melanogaster* | **Spomel2** | 0.0000 | 0.0308 |
| III | *Sporophila palustris* | **Spopal1** | 0.0000 | 0.0308 |
| III | *Sporophila palustris* | KF316471 | 0.0000 | 0.0233 |
| III | *Sporophila palustris* | JN810146 | 0.0000 | 0.0308 |
| III | *Sporophila palustris* | JN677040 | 0.0000 | 0.0196 |
| III | *Sporophila palustris* | AY387439 | 0.0000 | 0.0317 |
| III | *Sporophila palustris* | AY387438 | 0.0000 | 0.0317 |
| III | *Sporophila palustris* “zelichi” | JN677050 | 0.0000 | 0.0233 |
| III | *Sporophila palustris* “zelichi” | AY387445 | 0.0000 | 0.0317 |
| III | *Sporophila palustris* “zelichi” | AY387444 | 0.0000 | 0.0317 |
| III | *Sporophila pileata* | JN810131 | 0.0000 | 0.0308 |
| III | *Sporophila pileata* | JN676997 | 0.0000 | 0.0187 |
| III | *Sporophila pileata* | JN676996 | 0.0000 | 0.0187 |
| III | *Sporophila pileata* | JN676992 | 0.0000 | 0.0187 |
| III | *Sporophila pileata* | JN676991 | 0.0000 | 0.0187 |
| III | *Sporophila ruficollis* | JN677047 | 0.0000 | 0.0233 |
| III | *Sporophila ruficollis* | JN677046 | 0.0000 | 0.0194 |
| III | *Sporophila ruficollis* | JN677045 | 0.0000 | 0.0194 |
| III | *Sporophila ruficollis* | JN677044 | 0.0000 | 0.0187 |
| III | *Sporophila ruficollis* | JN677043 | 0.0000 | 0.0187 |
| III | *Sporophila ruficollis* | AY387442 | 0.0000 | 0.0317 |
| III | *Sporophila ruficollis* | AY387441 | 0.0000 | 0.0317 |
| III | *Sporophila ruficollis* | AY387440 | 0.0000 | 0.0317 |
| III | *Sporophila ruficollis* | AF489896 | 0.0000 | 0.0308 |
| III | *Sporophila pileata* | AY387415 | 0.0079 | 0.0397 |
| III | *Sporophila hypoxantha* | KF316461 | 0.0088 | 0.0351 |
| III | *Sporophila hypoxantha* | KF316465 | 0.0092 | 0.0367 |
| III | *Sporophila pileata* | JN676995 | 0.0093 | 0.0280 |
| III | *Sporophila pileata* | JN676993 | 0.0093 | 0.0280 |
| III | *Sporophila palustris* | JN677042 | 0.0097 | 0.0291 |
| III | *Sporophila hypochroma* | JN677014 | 0.0098 | 0.0294 |
| III | *Sporophila ruficollis* | JN677049 | 0.0098 | 0.0294 |
| III | *Sporophila palustris* | JN677041 | 0.0116 | 0.0349 |
| III | *Sporophila palustris* | KF316472 | 0.0118 | 0.0353 |
| III | *Sporophila melanogaster* | **Spomel1** | 0.0154 | 0.0462 |
| III | *Sporophila minuta* | GU215337 | 0.0154 | 0.0462 |
| III | *Sporophila pileata* | AY387414 | 0.0159 | 0.0476 |
| III | *Sporophila castaneiventris* | AY387419 | 0.0159 | 0.0476 |
| III | *Sporophila melanogaster* | AY387433 | 0.0159 | 0.0476 |
| III | *Sporophila minuta* | AY387435 | 0.0159 | 0.0476 |
| III | *Sporophila minuta* | JN677033 | 0.0198 | 0.0396 |
| III | *Sporophila minuta* | JN810145 | 0.0231 | 0.0538 |
| III | *Sporophila minuta* | GU215338 | 0.0231 | 0.0538 |
| III | *Sporophila castaneiventris* | AY387418 | 0.0238 | 0.0556 |
| III | *Sporophila minuta* | AY387436 | 0.0238 | 0.0556 |
| III | *Sporophila minuta* | AY387434 | 0.0238 | 0.0556 |
| III | *Sporophila castaneiventris* | JN677006 | 0.0297 | 0.0297 |
| III | *Sporophila castaneiventris* | JN677005 | 0.0297 | 0.0297 |
| III | *Sporophila minuta* | JN677039 | 0.0297 | 0.0495 |
| III | *Sporophila minuta* | JN677038 | 0.0297 | 0.0495 |
| III | *Sporophila minuta* | JN677037 | 0.0297 | 0.0495 |
| III | *Sporophila minuta* | JN677036 | 0.0297 | 0.0495 |
| III | *Sporophila minuta* | JN677035 | 0.0297 | 0.0495 |
| III | *Sporophila minuta* | JN677034 | 0.0297 | 0.0495 |
| III | *Sporophila castaneiventris* | **Spocas1** | 0.0462 | 0.0538 |
| III | *Sporophila castaneiventris* | JN677004 | 0.0490 | 0.0490 |
| III | *Sporophila castaneiventris* | JN810133 | 0.0538 | 0.0462 |
| III | *Sporophila castaneiventris* | AF310056 | 0.0556 | 0.0476 |
| IV | *Oryzoborus nuttingi* | JN810099 | 0.0308 | 0.0154 |
| V | *Sporophila intermedia* | EU647922 | 0.0462 | 0.0308 |
| V | *Sporophila americana* | AF310054 | 0.0556 | 0.0397 |
| V | *Sporophila corvina* | JN810136 | 0.0385 | 0.0462 |
| V | *Sporophila corvina* | GU215335 | 0.0385 | 0.0462 |
| V | *Sporophila corvina* | GU215336 | 0.0462 | 0.0538 |
| VI | *Sporophila torqueola* | JN810151 | 0.0462 | 0.0308 |
| VII | *Sporophila nigricollis* | AF310053 | 0.0159 | 0.0238 |
| VII | *Sporophila caerulescens* | JN677001 | 0.0196 | 0.0000 |
| VII | *Sporophila caerulescens* | JN677000 | 0.0196 | 0.0000 |
| VII | *Sporophila caerulescens* | JN677002 | 0.0227 | 0.0000 |
| VII | *Dolospingus fringilloides* | JN810073 | 0.0231 | 0.0231 |
| VII | *Dolospingus fringilloides* | AY705434 | 0.0231 | 0.0231 |
| VII | *Dolospingus fringilloides* | AY705435 | 0.0231 | 0.0231 |
| VII | *Sporophila caerulescens* | **Spocaecae1** | 0.0308 | 0.0000 |
| VII | *Sporophila caerulescens* | JN810132 | 0.0308 | 0.0000 |
| VII | *Sporophila n. nigricollis* | **Sponignig1** | 0.0308 | 0.0000 |
| VII | *Sporophila n. nigricollis* | **Sponignig3** | 0.0308 | 0.0000 |
| VII | *Sporophila nigricollis* | GU215339 | 0.0313 | 0.0000 |
| VII | *Sporophila caerulescens* | AY387417 | 0.0317 | 0.0000 |
| VII | *Sporophila caerulescens* | AY387416 | 0.0317 | 0.0000 |
| VII | *Sporophila nigricollis* | AY387437 | 0.0317 | 0.0000 |
| VII | *Sporophila luctuosa* | JN810143 | 0.0462 | 0.0308 |
| VII | *Sporophila luctuosa* | AY387432 | 0.0476 | 0.0317 |
| VIII | *Sporophila schistacea* | AF290149 | 0.0370 | 0.0370 |
| VIII | *Sporophila schistacea* | GU215340 | 0.0620 | 0.0465 |
| VIII | *Sporophila falcirostris* | AY387425 | 0.0714 | 0.0556 |
| VIII | *Sporophila falcirostris* | JN810137 | 0.0769 | 0.0615 |
| VIII | *Sporophila schistacea* | EF529976 | 0.0769 | 0.0615 |
| VIII | *Sporophila falcirostris* | AY387426 | 0.0794 | 0.0635 |
| IX | *Sporophila collaris* | JN677013 | 0.0185 | 0.0185 |
| IX | *Sporophila collaris* | JN677012 | 0.0185 | 0.0185 |
| IX | *Sporophila collaris* | JN677010 | 0.0194 | 0.0194 |
| IX | *Sporophila collaris* | JN677011 | 0.0196 | 0.0196 |
| IX | *Sporophila collaris* | JN677009 | 0.0196 | 0.0196 |
| IX | *Sporophila collaris* | KP965518 | 0.0215 | 0.0215 |
| IX | *Sporophila collaris* | AF489895 | 0.0348 | 0.0261 |
| IX | *Sporophila albogularis* | JN810130 | 0.0538 | 0.0538 |
| IX | *Sporophila albogularis* | **Spoalb1** | 0.0538 | 0.0538 |
| IX | *Sporophila plumbea* | JN810148 | 0.0615 | 0.0462 |
| IX | *Sporophila collaris* | JN810135 | 0.0692 | 0.0538 |
| *S. frontalis* | *Sporophila frontalis* | JN810138 | 0.0446 | 0.0446 |

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