

GENOME SEQUENCING

The Complete Genome Sequences of 31 Species of Hawks (Accipitriformes, Aves)

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Biodiversity Genomes

We present the complete genome sequences of 31 species of hawks. Illumina sequencing was performed on genetic material from wild-caught specimens. The reads were assembled using a *de novo* method followed by a finishing step. The raw and assembled data are publicly available via Genbank.

Methods

Single wild-collected individuals were sampled for this study.

DNA extraction was performed using the Qiagen DNAeasy genomic extraction kit using the standard protocol. A paired-end sequencing library was constructed using the Illumina TruSeq kit according to the manufacturer's instructions. The library was sequenced on an Illumina Hi-Seq platform in paired-end, 2 × 150 bp format. The resulting fastq files were trimmed of adapter/primer sequence and low-quality regions with Trimmomatic v0.33 (Bolger, Lohse, and Usadel 2014). The trimmed sequence was assembled by SPAdes v2.5 (Bankevich et al. 2012) followed by a finishing step using Zanfona (Kieras, O'Neill, and Pirro 2021).

Results and Data Availability

All data, including raw reads and assembled genome sequence, is available via Genbank.

taxname	specimen_voucher	accession
Accipiter badius	FMNH 447212	JAVHUK000000000
Accipiter francesiae	FMNH 393180	JAVHVM000000000
Accipiter madagascariensis	FMNH 449187	JAVHUI000000000
Accipiter meyerianus	FMNH 153357	JAUTCD000000000
Accipiter minullus	FMNH 452457	JAVHUJ000000000
Accipiter rhodogaster	FMNH 102059	JAVKKR000000000
Accipiter erythronemius	LSUMZ B-38859	JANCMG000000000
Accipiter tachiro	FMNH 452456	JAVJIG000000000
Aquila gurneyi	FMNH 185069	JAVKKY000000000
Aquila rapax	FMNH 293464	JAVKKT000000000
Aviceda cuculoides	FMNH 444009	JAVJGG000000000
Aviceda leuphotes	FMNH 228511	JAVJGH000000000
Buteo brachyurus	FMNH 501306	JAVKKV000000000
Buteogallus lacernulatus	LACM Birds-27764	JAQIFQ000000000

taxname	specimen_voucher	accession
<i>Buteogallus meridionalis</i>	ANSP 34402	JAOEII000000000
<i>Circaetus cinereus</i>	FMNH 285566	JAXCMH000000000
<i>Circaetus pectoralis</i>	IRGN W2187	JAVJGK000000000
<i>Circaetus spectabilis</i>	FMNH 212981	JAVLTE000000000
<i>Circus macroscelus</i>	FMNH 100392	JAUTCC000000000
<i>Clanga clanga</i>	FMNH 217891	JAVKKQ000000000
<i>Erythrotriorchis buergeri</i>	BBM NG-54096	JAPTGX000000000
<i>Geranoaetus melanoleucus</i>	FMNH 296557	JAVKKU000000000
<i>Haliaeetus vocifer</i>	FMNH 268827	JAVKKX000000000
<i>Hieraaetus wahlbergi</i>	FMNH 474700	JAVJGL000000000
<i>Lophaetus occipitalis</i>	FMNH 282642	JAVKKS000000000
<i>Milvus aegyptius</i>	FMNH 431139	JAVJIB000000000
<i>Milvus lineatus</i>	FMNH 279234	JAVJIC000000000
<i>Morphnarchus princeps</i>	ANSP 180156	JAPFFO000000000
<i>Pseudastur albicollis</i>	FMNH 456424	JAVKKZ000000000
<i>Pseudastur occidentalis</i>	ANSP 183807	JAOYNB000000000
<i>Sagittarius serpentarius</i>	IRGN 65UKE4LQWQ	JAVKLA000000000

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