

## JGI Spain and Senegal Publications

Last update: April 30<sup>th</sup>, 2024

### Peer Reviewed Journals

#### 2024

**Dotras, L., Barciela, A., Llana, M., Galbany, J., Hernandez-Aguilar, R.A.** (2024) Savanna chimpanzee (*Pan troglodytes*) crop feeding at Dindefelo, Senegal: Challenges and implications for conservation. *Primates*. <https://doi.org/10.1007/s10329-024-01125-9>

Sereme, Y., Madariaga Zarza, S., Medkour, H., ..., **Dotras, L., Barciela, A., Hernandez-Aguilar, R.A.**, ..., Mediannikov, O. (2024) Treponematosis in critically endangered Western chimpanzees (*Pan troglodytes verus*) in Senegal. *One Health* 18:100694. <https://doi.org/10.1016/j.onehlt.2024.100694>

#### 2023

**Mirghani, N., Dotras, L., Llana, L., Barciela, A., Hernandez-Aguilar, R.A., Galbany, J.** (2023) New range record for the African brush-tailed porcupine, *Atherurus africanus*, in southeastern Senegal and northern Guinea. *African Journal of Ecology* 61(2):490-495. <https://doi.org/10.1111/aje.13125>

#### 2022

Fontseré, C., Kuhlwilm, M., Morcillo-Suárez, C., ..., **Álvarez-Varona, P.**, ..., **Hernandez-Aguilar, R. A.**, ..., **Llana, M.**, ..., Arandjelovic, M., Marques-Bonet, T. (2022) Population dynamics and genetic connectivity in recent chimpanzee history. *Cell Genomics* 2. <https://doi.org/10.1016/j.xgen.2022.100133>

Abdallah, R., Kuete Yimagou, E., Hadjadj, L., ..., **Barciela, A., Hernandez-Aguilar, R. A.**, ..., Baron, S. (2022) Population diversity of antibiotic resistant *Enterobacteriales* in samples from wildlife origin in Senegal: Identification of a multidrug resistance transposon carrying *bla<sub>CTX-M-15</sub>* in *Escherichia coli*. *Frontiers in Microbiology* 13:838392. <https://doi.org/10.3389/fmicb.2022.838392>

Cardoso, S., **Hernandez-Aguilar, R.A., Dotras, L., Mirghani, N., Llana, M., Barciela, A., Galbany, J.** (2022) Measuring body size of wild chimpanzees from camera trap photographs using a photogrammetric technique. *Revue de Primatologie* 13:194. <https://doi.org/10.4000/primatologie.13512>

**Dotras, L., Barciela, A., Llana, M., Mirghani, N., Galán-Plana, C.F., Galbany, J., Hernandez-Aguilar, R.A.** (2022) First evidence of the Endangered King colobus (*Colobus polykomos*) in Senegal. *Revue de Primatologie* 13:30. <https://doi.org/10.4000/primatologie.14505>

Macina, S., **Dotras, L., Llana, M., Hernandez-Aguilar, R.A.**, Ndiaye, P.I. (2022) Savanna chimpanzees (*Pan troglodytes verus*) nesting tree species abundance in Dindefelo (Senegal): Implications for conservation. *Revue de Primatologie* 13:53. <https://doi.org/10.4000/primatologie.14505>

**Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Dotras, L., Galbany, J., Llana, M., Adrián Arroyo, Renelies-Hamilton, J., Hernandez-Aguilar, R.A.** (2022) Chimpanzee (*Pan troglodytes verus*) army ant (*Dorylus spp.*) foraging: a new study from Dindefelo, Senegal. *Revue de Primatologie* 13:74. <https://doi.org/10.4000/primatologie.14505>

**Marcos-Nistal, M., Galán-Plana, C.F. Gallego-Acero, M.C., Dotras, L., Galbany, J., Llana, M., Barciela, A., Hernandez-Aguilar, R.A.** (2022) Savanna chimpanzees (*Pan troglodytes verus*) in Guinea use caves: New data from Sabe. *Revue de Primatologie* 13:54. <https://doi.org/10.4000/primatologie.14505>

**Galán-Plana, C.F., Sánchez-Megías, A., Renelies-Hamilton, J., Llana, M., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A.** (2022) Chimpanzee (*Pan troglodytes verus*) baobab (*Adansonia digitata*) pounding: a new report from Dindefelo, Senegal. *Revue de Primatologie* 13:36. <https://doi.org/10.4000/primatologie.14505>

## 2021

Köster, P.C., Renelies-Hamilton, J., **Dotras, L., Llana, M., ...**, Carmena, D. (2021) Molecular detection and characterization of intestinal and blood parasites in wild chimpanzees (*Pan troglodytes verus*) in Senegal. *Animals* 11:3291. <https://doi.org/10.3390/ani11113291>

Barratt, C., Lester, J.D., Gratton, P., ... , **Mirghani, N., ...** , Kühl, H. (2021) Quantitative estimates of glacial refugia for chimpanzees (*Pan troglodytes*) since the Last Interglacial (120,000 BP). *American Journal of Primatology* 83:e23320. <https://doi.org/10.1002/ajp.23320>

Medkour, H., Amona, I., Akiana, J., ... , **Hernandez-Aguilar, R.A., Barciela, A., ...** , Mediannikov, O. (2021) Bacterial infections in humans and nonhuman primates from Africa: Expanding the knowledge. *The Yale Journal of Biology and Medicine* 94:227-248. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8223552/pdf/yjbm\\_94\\_2\\_227.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8223552/pdf/yjbm_94_2_227.pdf)

Baron, S., Mediannikov, O., Abdallah, R., ... **Barciela, A., Hernandez-Aguilar, R.A., ...** , Raoult, D. (2021) Multidrug-resistant *Klebsiella pneumoniae* clones from wild chimpanzees and termites in Senegal. *Antimicrobial Agents and Chemotherapy* 65: e0255720. <https://doi.org/10.1128/AAC.02557-20>

Lester, J.D., Vigilant, L., Gratton, P., ... , **Álvarez-Varona, P., ...** , **Hernandez-Aguilar, R.A., ...** , Arandjelovic, M. (2021) Recent genetic connectivity and clinal variation in chimpanzees. *Communications Biology* 4. <https://doi.org/10.1038/s42003-021-01806-x>

Bueno de Mesquita, C.P., Nichols, L.M., Gebert, M.J., ... , **Álvarez-Varona, P., ...** , **Hernandez-Aguilar, R.A., ...** , Arandjelovic, M., Dunn, R.R. (2021) Structure of chimpanzee gut microbiomes across tropical Africa. *mSystems* 6:e01269-20. <https://doi.org/10.1128/mSystems.01269-20>

## 2020

Heinicke, S., Ordaz-Németh, I., Junker, J., ..., **Hernandez-Aguilar, R.A.**, ..., Kühl, H.S. (2020) Open-access platform to synthesize knowledge of ape conservation across sites. *American Journal of Primatology* 83. <https://doi.org/10.1002/ajp.23213>

Wessling, E. G., Dieguez, P., **Llana, M., Pacheco, L.**, Pruett, J. D., Kühl, H.S. (2020) Chimpanzee (*Pan troglodytes verus*) density and environmental gradients at their biogeographical range edge. *International Journal of Primatology* 41. <https://doi.org/10.1007/s10764-020-00182-3>

Kalan, A., Kulik, L., Arandjelovic, M., ..., **Llana, M.** ..., **Pacheco, L.** ..., Kühl, H.S. (2020) Environmental variability supports chimpanzee behavioral diversity. *Nature Communications* 11:4451. <https://doi.org/10.1038/s41467-020-18176-3>

Medkour, H. Amona, I., Laidoudi, Y., ..., **Hernandez-Aguilar, R.A., Barciela, A.**, ... Mediannikov, O. (2020) Parasitic infections in African humans and non-human primates. *Pathogens* 9:561. <https://doi.org/10.3390/pathogens9070561>

Boesch, C., Kalan, A., Mundry, R., ..., **Barciela, A.**, ..., **Llana, M.**, ..., **Hernandez-Aguilar, R.A.**, ..., **Pacheco, L.**, ..., Kühl, H.S. (2020) Chimpanzee ethnography reveals unexpected cultural diversity. *Nature Human Behaviour* 4:1-7. <https://doi.org/10.1038/s41562-020-0890-1>

Medkour, H., Amona, I., Akiana, J., ..., **Hernandez-Aguilar, R.A., Barciela, A.**, ... Mediannikov, O. (2020) Adenovirus infections in African humans and wild non-human primates: great diversity and cross-species transmission. *Viruses* 12:657. <https://doi.org/10.3390/v12060657>

Laidoudi, Y., Medkour, H., Latrofa, M.S., ..., **Barciela, A., Hernandez-Aguilar, R.A.**, ..., Mediannikov, O. (2020) Zoonotic *Abbreviata caucasica* in wild chimpanzees (*Pan troglodytes verus*) from Senegal. *Pathogens* 9:517. <https://doi.org/10.3390/pathogens9070517>

Camón, L., **Pacheco, L., Llana, M., Galbany, J., Gutiérrez-Díez, I., Hernandez-Aguilar, R.A.** (2020) Tourist and local people use of a savanna chimpanzee (*Pan troglodytes verus*) habitat in Dindefelo, Senegal. *Folia Primatologica* 91:531. <https://doi.org/10.1159/000506768>

Lester, J., Vigilant, L., Gratton, P., ..., **Álvarez-Varona, P., Pacheco, L.**, ..., Arandjelovic, M. (2020) Chimpanzees biogeography inferred from genetic diversity and effective migration. *Folia Primatologica* 91:264-265. <https://doi.org/10.1159/000502392>

## 2019

**Alonso, C., Hernansaiz, A. S., Fernández, J.M., Ruiz, N., Aransay, N., Casas, S., Pacheco, L.** (2019) Range extension of the King Colobus *Colobus polykomos* (Zimmermann, 1780) in north Fouta Djallon (Guinea). *African Primates* 13:1-8. <http://static1.1.sqspcdn.com/static/f/1200343/28154418/1562440701370/AP+Vol+13+Alonso+et+al.pdf?token=u697kcWLVi%2BkSvGDGAOMYmQ3qiY%3D>

Heinicke, S., Mundry, R., Boesch, C., ... **Pacheco, L.**, ..., Kühl, H.S. (2019a) Advancing conservation planning for western chimpanzees using IUCN SSC A.P.E.S. - the case of a taxon-specific database. *Environmental Research Letters* 14:064001. <https://doi.org/10.1088/1748-9326/ab1379>

Heinicke, S., Mundry, R., Boesch, C., ..., **Pacheco, L.**, ..., Kühl, H.S. (2019b) Characteristics of positive deviants in western chimpanzee populations. *Frontiers in Ecology and Evolution* 7:16. <http://doi.org/10.3389/fevo.2019.00016>

Kühl, H. S., Boesch, C., Kulik, L., ..., **Llana, M.** ..., **Pacheco, L.** ..., Kalan, A.K. (2019a) Human impact erodes chimpanzee behavioral diversity. *Science* 363:1453-1455. <https://doi.org/10.1126/science.aau4532>

Kühl, H. S., Boesch, C., Kulik, L., ..., **Llana, M.**, ..., **Pacheco, L.**, ..., Kalan, A.K. (2019b) Inclusive chimpanzee conservation – Response. *Science* 364:1040-1041. <https://doi.org/10.1126/science.aax6339>

**Renelies-Hamilton, J.**, Noguera-Julian, M., Parera, M., ..., **Pacheco, L.**, ... Carmena, D. (2019) Exploring interactions between *Blastocystis* sp., *Strongyloides* spp. and the gut microbiomes of wild chimpanzees in Senegal. *Infection Genetics and Evolution* 74:104010. <https://doi.org/10.1016/j.meegid.2019.104010>

## 2012-2018

Ndiaye, P. I., Lindshield, S.M., Badji, L., **Pacheco, L.**, ..., Pruetz, J.D. (2018) Survey of chimpanzees (*Pan troglodytes verus*) outside of protected areas in southeastern Senegal. *African Journal of Wildlife Research* 48. <https://doi.org/10.3957/056.048.013007>

**Pacheco, L.**, Ruiz de Azua, N., Fernández-García, J. M. (2017) First record of Mountain Wagtail for Senegal. *The Bulletin of the African Bird Club* 24:88-89. <https://doi.org/10.5962/p.310015>

Ramon, M., **Llana, M.**, **Estela, N.**, **Pacheco, L.**, Hockings, K., Hill, C. (2017) The fruit of discord? *Saba senegalensis* use by chimpanzees (*Pan troglodytes verus*) and local people in the Dindéfelo Community Nature Reserve (RNCD), southeastern Senegal. *Folia Primatologica* 88:167-168. <https://doi.org/10.1159/000479094>

Enthoven, D., **Pacheco, L.**, **Llana, M.**, Reitan, T., Hernández-Aguilar, R. A. (2017). Nesting patterns of chimpanzees (*Pan troglodytes verus*) in a savanna habitat, Dindéfelo, Senegal. *Folia Primatologica* 88:114. <https://doi.org/10.1159/000479094>

Monasterio, C., **Álvarez, P.**, Trape, J-F., Rödel, M-O. (2016) The herpetofauna of the Dindéfelo Community Nature Reserve, Senegal. *Herpetology Notes* 9:1-6. <https://www.biotaxa.org/hn/article/view/9790>

Mayor, G., Merayo, J., Fernández-García, J. M, **Pacheco, L.**, **Diallo, D.** (2015) First breeding record of Heuglin's Wheatear (*Oenanthe heuglini*) for Senegal. *The Bulletin of the African Bird Club* 22:214-215. <https://doi.org/10.5962/p.310201>

de Donno, D., Cox, D. A., **Pacheco, L.**, Pinteá, L., Sweeney, S. (2015) Overview of the Jane Goodall Institute's scientific research and approach to conservation. *Folia Primatologica* 86: 268-268.

Fernández-García, J. M., Ruiz de Azua, N., **Pacheco, L.** (2013) Birds of Dindéfello Nature Reserve, south-east Senegal. *The Bulletin of the African Bird Club* 20:49-59. <https://doi.org/10.5962/p.309994>

**Pacheco, L., Ruiz de Azua, N., Fernández-García, J. M., Aransay, N., Guallar, F., Gaubert, P.** (2013) First record of Johnston's Genet (*Genetta johnstoni*) for Senegal. *Small Carnivore Conservation* 48:89-91.

**Pacheco, L., Fraixedas, S., Fernández-Llamazares, Á., Estela, N., ..., Guallar, F.** (2012) Perspectives on sustainable resource conservation in community nature reserves: a case study from Senegal. *Sustainability* 4:3158-3179. <https://doi.org/10.3390/su4113158>

Aransay, N., **Pacheco, L., Zabala, I.** (2012) First records of Narina's Trogon (*Apaloderma narina*) for Senegal. *The Bulletin of the African Bird Club* 19(1): 61-62. <https://biostor.org/reference/262531>

## International Conferences

*Ecology, biology, health and behavior of white-faced capuchins: Celebrating and promoting longitudinal research and conservation, 2023. Santa Rosa, Costa Rica.*

**Galán-Plana, C.F., Sánchez-Megías, A., Renelies-Hamilton, J., Llana, M., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A.** (2023) Chimpanzees (*Pan troglodytes verus*) use anvils to pound open baobab fruits in Dindefelo, Senegal: A preliminary study.

*35th Colloquium of the Francophone Society of Primatology, 2023. Dakar, Senegal*

**Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Dotras, L., Galbany, J., Llana, M., Arroyo, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A.** (2023) Army ant (*Dorylus* sp.) foraging strategies of a savanna chimpanzee (*Pan troglodytes verus*) community at Dindefelo, Senegal.

**Renelies-Hamilton, J., Barciela, A., Llana, M., Mirghani, N., Arandjelovic, M., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A.** (2023) Diet of savanna chimpanzees (*Pan troglodytes verus*) in Dindefelo, Senegal.

**Mirghani, N., Dotras, L., Llana, M., Barciela, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A., Galbany, J.** (2023) New range record for the Campbell's monkey (*Cercopithecus campbelli*) in West Africa.

*VIII Iberian Primatological Conference, 2022. Barcelona, Spain.*

**Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Dotras, L., Galbany, J., Llana, M., Adrián Arroyo, Renelies-Hamilton, J., Hernandez-Aguilar, R.A.** (2022) Chimpanzee (*Pan troglodytes verus*) army ant (*Dorylus spp.*) foraging: a new study from Dindefelo, Senegal.

**Marcos-Nistal, M., Galán-Plana, C.F., Gallego-Acero, M.C., Dotras, L., Galbany, J., Llana, M., Barciela, A., Hernandez-Aguilar, R.A.** (2022) Savanna chimpanzees (*Pan troglodytes verus*) in Guinea use caves: New data from Sabe.

**Galán-Plana, C.F., Sánchez-Megías, A., Renelies-Hamilton, J., Llana, M., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A.** (2022) Chimpanzee (*Pan troglodytes verus*) baobab (*Adansonia digitata*) pounding: a new report from Dindefelo, Senegal.

Cardoso, S., **Hernandez-Aguilar, R.A., Dotras, L., Mirghani, N., Llana, M., Barciela, A., Galbany, J.** (2022) Implementing a photogrammetric technique for measuring body size of wild chimpanzees from camera trap video footage.

**Dotras, L., Barciela, A., Llana, M., Mirghani, N., Galán-Plana, C.F., Galbany, J., Hernandez-Aguilar, R.A.** (2022) First evidence of the Endangered King colobus (*Colobus polykomos*) in Senegal.

Macina, S., **Dotras, L., Llana, M., Hernandez-Aguilar, R.A.,** Ndiaye, P.I. (2022) Savanna chimpanzees (*Pan troglodytes verus*) nesting tree species abundance in Dindefelo (Senegal): Implications for conservation.

***Joint Conference of the European Federation for Primatology and the Gesellschaft für Primatologie, 2022. Arnhem, The Netherlands.***

Cardoso, S., **Hernandez-Aguilar, R.A., Dotras, L., Mirghani, N., Llana, M., Barciela, A., Galbany, J.** (2022) Measuring body size of wild chimpanzees from camera trap photographs using a photogrammetric technique.

***XXVIII International Primatological Society and the American Society of Primatologists Conference, 2022. Quito, Ecuador.***

**Hernandez-Aguilar, R.A., Dotras, L., Llana, M., Barciela, A., Mirghani, N., Galbany, J.** (2022) Dindefelo: a study site for Western chimpanzee (*Pan troglodytes verus*) research and conservation.

***69th Wildlife Disease Association – 14th European Wildlife Disease Association conference, 2021. Online***

Köster, P.C., Lapuente, J.M., **Dotras, L.,** Renelies-Hamilton, J., Pizarro, A., **Llana, M.,** ..., Carmena, D. (2021) Frequency and molecular diversity of protist enteroparasites in Western chimpanzees (*Pan troglodytes verus*) from Ivory Coast, Senegal, and Sierra Leone.

***3rd International Blastocystis conference, 2021. Online***

Köster, P.C., **Dotras, L.,** Renelies-Hamilton, J., Lapuente, J.M., Pizarro, A., **Llana, M.,** ..., Carmena, D. (2021) Prevalence and subtype identification of *Blastocystis* sp. in western chimpanzees (*Pan troglodytes verus*) from Ivory Coast, Senegal, and Sierra Leone.

***VII Iberian Primatological Conference, 2020. Lisbon, Portugal***

Camón, L., **Pacheco, L., Llana, M., Galbany, J.,** Gutiérrez-Díez, I., **Hernandez-Aguilar, R.A.** (2020) Tourist and local people use of a savanna chimpanzee (*Pan troglodytes verus*) habitat in Dindefelo, Senegal.

***EFP-PSGB Conference: Joint meeting of the European Federation of Primatology and the Primate Society of Great Britain 2020. Oxford, United Kingdom***

Lester, J., Vigilant, L., Gratton, P., ..., **Álvarez-Varona, P., Pacheco, L., ...**, Arandjelovic, M. (2020) Chimpanzees biogeography inferred from genetic diversity and effective migration.

***SMBE 2019. Manchester, United Kingdom***

Fontserè, C., Lizano, E., Alvarez-Estape, M., ... , **Álvarez-Varona, P., ...**, Pacheco, L., ... , Marques-Bonet, T. (2020) Genetics of the PanAf project: chimpanzee diversity from fecal samples.

***2<sup>nd</sup> International Blastocystis Conference, 2018. Bogotá, Colombia***

**Hamilton, J.**, Noguera-Julian, M., Parera, M., **Pacheco, L.**, ... Carmena, D. (2018) Exploring interactions between *Blastocystis sp.*, other intestinal protozoa and the gut microbiomes of wild chimpanzees (Senegal): Not-so-friendly old friends-hypothesis.

**Hamilton, J.**, Lapuente, J., **Pacheco, L.**, Köster, P., Carmena, D. (2018) Prevalence and molecular characterization of *Blastocystis sp.* in two wild chimpanzee populations in Senegal and Ivory Coast.

***Danish microbiological society annual congress, 2018. Copenhagen, Denmark***

**Hamilton, J.**, Noguera-Julian, M., Parera, M., **Pacheco, L.**, ... Carmena, D. (2018) Exploring interactions between *Blastocystis sp.*, other intestinal protozoa and the gut microbiomes of wild chimpanzees (Senegal): Not-so-friendly old friends-hypothesis.

***7<sup>th</sup> European Federation for Primatology Meeting. 30<sup>e</sup> Colloque de la Société Francophone de Primatologie, 2017. Strasbourg, France.***

Ramon, M., **Llana, M., Estela, N., Pacheco, L.**, Hockings, K., Hill, C. (2017) The fruit of discord? *Saba senegalensis* use by chimpanzees (*Pan troglodytes verus*) and local people in the Dindefelo Community Nature Reserve (RNCD), southeastern Senegal.

Ramon, M., **Llana, M., Estela, N., Pacheco, L.**, Hockings, K., Hill, C. (2017) The fruit of discord? *Saba senegalensis* use by chimpanzees and local people in Senegal.

Enthoven, D., **Pacheco, L., Llana, M.**, Reitan, T., Hernández-Aguilar, R. A. (2017). Nesting patterns of chimpanzees (*Pan troglodytes verus*) in a savanna habitat, Dindefelo, Senegal.

***6<sup>th</sup> European Federation for Primatology Meeting & XXII Italian Association of Primatology Congress, 2015. Rome, Italy.***

de Donno, D., Cox, D. A., **Pacheco, L.**, Pintea, L., Sweeney, S. (2015) Overview of the Jane Goodall Institute's scientific research and approach to conservation.

## **National Conferences**

### ***7<sup>th</sup> Congreso Forestal Español 2018. Plasencia, Spain***

Alejano, R., Marín, F., Domingo-Santos, J., **Bermejo, A.**, ... **Pacheco, L., Martínez, R.** (2018) Inventario forestal en la Reserva Natural Comunitaria de Dindefelo (Senegal) como herramienta de base para la conservación del hábitat del chimpancé.