

JGI Spain and Senegal

Publications

Last update: September 18th, 2026

Peer Reviewed Journals

2026

Labarrere, C., Hama, H.O., Orain, N., **Dotras, L., Llana, M., Hernandez-Aguilar, R.A.**, Fenollar, F., Mediannikov, O. (2026) Molecular and serological evidence of systemic *Treponema pallidum* infection in wild western chimpanzees. *iScience* 29:117214. <https://doi.org/10.1016/j.isci.2026.117214>

Sánchez-Megías, A., Barciela, A., López-Leal, K., Piccolella, F., Galán-Plana, C.F., Mirghani, N., Llana, M., Galbany, J., Dotras, L., Renelies-Hamilton, J., Arroyo, A., Hernandez-Aguilar, R.A. (2026) Savanna chimpanzee tool and fruit transfers facilitate the transmission of technological behaviours at Dindefelo, Senegal. *Frontiers in Psychology* 17:1868894. <https://doi.org/10.3389/fpsyg.2026.1868894>

Galán-Plana, C., Sánchez-Megías, A., Renelies-Hamilton, J., Llana, M., Diallo, S., Barciela, A., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A. (2026) New evidence of baobab (*Adansonia digitata*) pounding by western chimpanzees (*Pan troglodytes verus*). *Primates*. <https://doi.org/10.1007/s10329-026-01264-1>

Sánchez-Megías, A., Galán-Plana, C., Mirghani, N., Bodawatta, K.H., Barciela, A., Dotras, L., Galbany, J., Llana, M., Poulsen, M., Arroyo, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A. (2026) Chimpanzee army ant consumption strategies show no habitat-specific pattern. *Scientific Reports* 16:16416. <https://doi.org/10.1038/s41598-026-42278-5>

2025

Mirghani, N., Llana, L., Barciela, A., Dotras, L., Hernandez-Aguilar, R.A., Galbany, J., Carrascal, L.M. (2025) Uncovering cryptic diversity: camera trap insights into the effects of seasonality and anthropogenic presence in a mosaic savannah ecosystem. *African Journal of Ecology* 63:e70069. <https://doi.org/10.1111/aje.70069>

Ceballos-Caro, A., Antón-Berenguer, V., Lanza, M., **Renelies-Hamilton, J., Barciela, A., ...**, Rubio, J.M. (2025) Development and assessment of a multiple-analysis system for diagnosing malaria and other blood parasite infections in humans and non-human primates. *Diagnostics* 15:620. <https://doi.org/10.3390/diagnostics15050620>

Ostridge, H.J., Fontseré, C., Lizano, E., ..., **Dotras, L., ..., Hernandez-Aguilar, R.A., ..., Llana, M., ..., Andrés, A.M.** (2025) Local genetic adaptation to habitat in wild chimpanzees. *Science* 387:6730. <https://doi.org/10.1126/science.adn7954>

2024

Wang, X., Bocksberger, G., Arandjelovic, M., ..., **Álvarez, P., Hernandez-Aguilar, R.A., Llana, M., ..., Oelze, V.M.** (2024) Strontium isoscape of sub-Saharan Africa allows tracing origins of victims of the transatlantic slave trade. *Nature Communications* 15:10891. <https://doi.org/10.1038/s41467-024-55256-0>

Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Dotras, L., Galbany, J., Llana, M., Arroyo, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A. (2024) Wild chimpanzees remember and revisit concealed, underground army ant nest locations throughout multiple years. *Communications Biology* 7:1546. <https://doi.org/10.1038/s42003-024-07206-1>

Mirghani, N., Dotras, L., Llana, M., Barciela, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A., Galbany, J. (2024) New range record for Campbell's monkeys (*Cercopithecus campbellii*) in West Africa. *Tropical Zoology* 37(3-4). <https://doi.org/10.4081/tz.2024.162>

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* 65(4):209-2015. <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) Treponematoses in critically endangered Western chimpanzees (*Pan troglodytes verus*) in Senegal. *One Health* 18:100694. <https://doi.org/10.1016/j.onehlt.2024.100694>

2023

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. *Revue de Primatologie* 14:40. <https://doi.org/10.4000/11v3x>

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. *Revue de Primatologie* 14:35. <https://doi.org/10.4000/11v3x>

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 campbellii*) in West Africa. *Revue de Primatologie* 14:24. <https://doi.org/10.4000/11v3x>

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

Fontsere, 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 *Enterobacterales* in samples from wildlife origin in Senegal: Identification of a multidrug resistance transposon carrying *bla*_{CTX-M-15} 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., Arroyo, A., 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., ...**, Köhl, 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
- 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., ...**, Köhl, 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., Pruetz, J.D., Köhl, 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. ...**, Köhl, 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.
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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>

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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

11th European Federation for Primatology (EFP) Meeting, 2026. Montpellier, France

Francis Bertamini, L., Marcos-Nistal, M., Galán-Plana, C.F., Mirghani, N., Llana, M., Renelies-Hamilton, J., Barciela, A., Diallo, S., Diallo, A., Galbany, J., Dotras, L., Sánchez-Megías, A., Hernandez-Aguilar, R.A. Savannah chimpanzees use caves in northern Guinea

Dotras, L., Mirghani, N., Llana, M., Barciela, A., Renelies-Hamilton, J., Diallo, A., Ndioum, M., Diallo, A.S., Hernandez-Aguilar, R.A., Galbany, J. Monitoring anthropogenic activities in western chimpanzee habitat at Dindefelo, Senegal

Piccolella, F., Sánchez-Megías, A., Mirghani, N., Renelies-Hamilton, J., Llana, M., Barciela, A., Diallo, S., Diallo, A., Galbany, J., Dotras, L., Arroyo, A., Hernandez-Aguilar, R.A. Chimpanzee (*Pan troglodytes*) use of a rock shelter in a savannah habitat: Dindefelo, Senegal

Sánchez-Megías, A., Barciela, A., López-Leal, K., Piccolella, F., Galán-Plana, C.F., Mirghani, N., Llana, M., Galbany, J., Dotras, L., Renelies-Hamilton, J., Arroyo, A., Hernandez-Aguilar, R.A. Savanna chimpanzee tool and fruit transfers facilitate the transmission of technological behaviours at Dindefelo, Senegal

30th International Primatological Society Congress, 2025. Antananarivo, Madagascar

Arroyo, A., Sánchez-Megías, A., Renelies-Hamilton, J., Mirghani, N., Lopez-Maroto, V., Llana, M., Escudero-Martin, L., Barciela, A., Ndiaye, P.I., Galbany, J., Dotras, L., Hernandez-Aguilar, R.A. (2025) Landscape use and tool accumulation by wild chimpanzees (*Pan troglodytes verus*) from Dindefelo, Senegal: a primate archaeology approach

Barciela, A., Galán-Plana, C.F., Álvarez, P., Dotras, L., Llana, M., Galbany, J., Hernandez-Aguilar, R.A. (2025) First description of algae fishing by chimpanzees (*Pan troglodytes*) in Senegal

Dotras, L., Llana, M., Barciela, A., Mirghani, N., Renelies-Hamilton, J., Galbany, J., Hernandez-Aguilar, R.A. (2025) Conservation challenges of Critically Endangered western chimpanzee (*Pan troglodytes verus*) in Dindefelo, Senegal

Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Barciela, A., Dotras, L., Galbany, J., Llana, M., Arroyo, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A. (2025) Cognitive strategies of wild chimpanzees (*Pan troglodytes verus*) for army ant (*Dorylus sp.*) consumption at Dindefelo, Senegal.

Sanchez-Font, J., Mirghani, N., Barciela, A., Renelies-Hamilton, J., Llana, M., Hernandez-Aguilar, R.A., Dotras, L., Galbany, J. (2025) Non-invasive photogrammetry reveals individual morphological variation in wild western chimpanzees (*Pan troglodytes verus*).

IX Iberian Primatological Conference, 2024. Vila do Conde, Portugal.

Arroyo, A., Sánchez-Megías, A., Renelies-Hamilton, J., Mirghani, N., López-Maroto, V., Llana, M., Escudero-Martín, L., Barciela, A., Ndiaye, P.I., Galbany, J., Dotras, L., Hernandez-Aguilar, R.A. (2024) Behavioural signatures of ant-dipping in western chimpanzees (*Pan troglodytes verus*) from Dindefelo, Senegal.

Barciela, A., Galán-Plana, C.F., Álvarez, P., Dotras, L., Llana, M., Galbany, J., Hernandez-Aguilar, R.A. (2024) First report of algae fishing by chimpanzees (*Pan troglodytes*) in Senegal.

Renelies-Hamilton, J., Barciela, A., Llana, M., Mirghani, N., Arandjelovic, M., Kuehl, H.S., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A. (2024) Diet of savanna chimpanzees (*Pan troglodytes verus*) and human-chimpanzee plant-resource overlap in Dindefelo, Senegal.

Sanchez-Font, J., Mirghani, N., Barciela, A., Renelies-Hamilton, J., Llana, M., Hernandez-Aguilar, R.A., Dotras, L., Galbany, J. (2024) Variability in body size of western chimpanzees using photogrammetry from camera trap images.

Sánchez-Megías, A., Galán-Plana, C.F., Mirghani, N., Llana, M., Barciela, A., Galbany, J., Dotras, L., Arroyo, A., Renelies-Hamilton, J., Hernandez-Aguilar, R.A. (2024) Chimpanzee social learning opportunities and tool transfer in the context of ant-dipping at Dindefelo, Senegal.

Dotras, L., Llana, M., Ndioum, M., Barciela, A., Renelies-Hamilton, J., Mirghani, N., Galbany, J., Hernandez-Aguilar, R.A. (2024) New evidence of crop feeding by western chimpanzees (*Pan troglodytes verus*) in Dindefelo, Senegal.

Llana, M., Gutierrez, I., Diallo, A.S., Sylla, M.S., Barciela, A., Mirghani, N., Renelies-Hamilton, J., Dotras, L., Galbany, J., Hernandez-Aguilar, R.A. (2024) First record of toothpick use in wild chimpanzees (*Pan troglodytes*).

Magassouba, M., Mirghani, N., Renelies-Hamilton, J., Dotras, L., Ndiaye, P.I. (2024) Presence of western chimpanzees (*Pan troglodytes verus*) and sympatric mammals in Dakately, Fongolimbi and Dimboli, southeastern Senegal.

36th Colloquium of the Francophone Society of Primatology, 2024. Toulouse, France.

Magassouba, M., Mirghani, N., Renelies-Hamilton, J., Dotras, L., Ndiaye, P.I. (2024) Présence de chimpanzés (*Pan troglodytes verus*) et d'autres espèces de mammifères dans la commune de Dakately, Sénégal.

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

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