

Publications Patrick Semal pour la période période 04/2019-03/2021

Les objectifs scientifiques définis dans la fiche de fonction 2019-2021 sont :

Etude des collections anthropologiques de l'IRSNB

A) Collections paléolithiques (Spy, Goyet, Trou Magritte, La naulette)

B) Etudes paléogénétiques

C) Biomécanique des Néandertaliens

D) Restitution des restes humains datant de la période coloniale

Les publications réalisées durant la période peuvent être rattachées aux RT suivants de la stratégie de recherche

Paleoanthropology RT4

Science: 1 ; Nature: 1 ; Nature Scientific Report: 1 ; Proceeding national Academy Sciences USA: 1 ; Comptes Rendu Palevol: 1 ; Abstracts: 8

Biodiversity Inventory RT2

Abstracts: 5

Ils portent sur le développement des bases de données collections (M. Adam, JM Herpers, F. Theeten)

Digitization

PLoS: 1

Porte sur la numérisation multispectrale (A. Mathys)

1. Devièse T., Abrams G., Hajdinjak M., Pirson S., De Groote I., Di Modica K., Toussaint M., Fischer V., Comeskey D., Spindler L., Meyer M., Semal P. & Higham T., 2021. [Reevaluating the timing of Neanderthal disappearance in Northwest Europe](#) Proceedings of the National Academy of Sciences, 118(12):e2022466118.
2. Rougier H., Crevecoeur I., Posth C., Bocherens H., Colombet P., Flas D., Krause J., Semal P. & Wissing C., 2020. [New Neanderthal fossils from Trou Magrite, Belgium, and their contribution to our understanding of Neanderthal diversity](#) American Journal of Physical Anthropology, 171(S69):240.
3. Hobern D., Paul D., Robertson T., Groom Q., Thiers B., Asase A., Luo M., Semal P., Woodburn M. & Zschuschen E., 2020. [Advancing the Catalogue of the World's Natural History Collections](#) Biodiversity Information Science and Standards, 4:e59324.
4. Petr M., Hajdinjak M., Fu Q., Essel E., Rougier H., Crevecoeur I., Semal P., Golovanova L., Doronichev V., Lalueza-Fox C., de la Rasilla M., Rosas A., Shunkov M., Kozlikin M., Derevianko A., Vernot B., Meyer M. & Kelso J., 2020. [The evolutionary history of Neanderthal and Denisovan Y chromosomes](#) Science, 369(6511):1653.
5. Lipson M., Ribot I., Mallick S., Rohland N., Olalde I., Adamski N., Broomandkhoshbacht N., Lawson A., López S., Oppenheimer J., Stewardson K., Asombang R., Bocherens H., Bradman N., Culleton B., Cornelissen E., Crevecoeur I., de Maret P., Fomine F., Lavachery P., Mindzie C., Orban R., Sawchuk E., Semal P., Thomas M., Van Neer W., Veeramah K., Kennett D., Patterson N., Hellenthal G., Lalueza-Fox C., MacEachern S., Prendergast M. & Reich D., 2020. [Ancient West African foragers in the context of African population history](#) Nature, 577(7792):665--670.

6. Posth C., Nägele K., Crevecoeur I., Beauval C., Bocherens H., Germonpré M., Gómez-Olivencia A., Semal P., Wißing C., Rougier H. & Krause J., 2019. [Palaeogenomic investigations at the Troisième caverne of Goyet, Belgium](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 153, Liège, Belgium, European Society for the study of Human Evolution.
7. Hajdinjak M., Essel E., Golovanova L., Doronichev V., Rougier H., Crevecoeur I., Semal P., Gansauge M., Lippik L., Nagel S., Nickel B., Richter J., Schmidt A., Meyer M., Kelso J. & Pääbo S., 2019. [Doubling the number of high-coverage Neandertal genomes](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 77, Liège, Belgium, European Society for the study of Human Evolution.
8. Chapman T., Throckmorton Z., Churchill S., Congdon K., Marchi D., Zipfel B., Walker C., Hawks J., Jan S., Sholukha V., Semal P., Berger L. & DeSilva J., 2019. [The gait of Homo naledi](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 213, Liège, Belgium, European Society for the study of Human Evolution.
9. Wißing C., Rougier H., Crevecoeur I., Draily C., Germonpré M., Gómez-Olivencia A., Naito Y., Posth C., Semal P. & Bocherens H., 2019. [When diet became diverse: Isotopic tracking of subsistence strategies among Gravettian hunters in Europe](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 204, Liège, Belgium, European Society for the study of Human Evolution.
10. Rougier H., Crevecoeur I., Modica K., Bocherens H., Colombet P., Flas D., Krause J., Semal P. & Wißing C., 2019. [New Neandertal remains from Trou Magrite, Belgium](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 166, Liège, Belgium, European Society for the study of Human Evolution.
11. Devière T., Abrams G., Di Modica K., Comeskey D., De Groote I., Semal P. & Higham T., 2019. [Dating the latest appearance of Neanderthals in Belgium](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 51, European Society for the study of Human Evolution, Liège, Belgium.
12. Chapman T. J., Throckmorton Z., Churchill S. E., Congdon K. A., Marchi D., Zipfel B., Walker C., Hawks J., Van Sint Jan S., Sholukha V., Semal P., Berger L. R. & DeSilva J., 2019. [The gait of Homo naledi](#) In: Proceedings of the European Society for the study of Human Evolution, vol. 8, pp. 37, European Society for the study of Human Evolution, Liège, Belgium.
13. Arvanitidis C., Hollingsworth P., Mergen P., Semal P., Keklikoglou K., Chatzinikolaou E., Addnik W., Smith V. & Koureas D., 2019. [Combined High-Throughput Imaging and Sequencing: Addressing the collections on demand requirement in SYNTHESYS+ project](#) Biodiversity Information Science and Standards, 3:e37290.
14. Theeten F., Adam M., Vandenberghe T., Dillen M., Semal P., Scory S., Hergers J., Spiegel D., Mergen P., Smirnova L., Engledow H., Casino A. & Gödderz K., 2019. [NaturalHeritage: Bridging Belgian natural history collections](#) Biodiversity Information Science and Standards, 3:e37854.
15. Adam M., Theeten F., Hergers J., Vandenberghe T., Semal P., Spiegel D. & Duchesne P., 2019. [DaRWIn: An open source natural history collections data management system](#) Biodiversity Information Science and Standards, 3:e39054.

16. Semal P., Adam M., Spiegel D., Theeten F., Engledow H., Mergen P., Gödderz K. & Casino Rubio A., 2019. [CETAF Collection Dashboard: Mapping natural history collections diversity](#) Biodiversity Information Science and Standards, 3:e39667.
17. Williams F., Schmidt C., Droke J., Willman J., Semal P., Becam G. & de Lumley M., 2019. [Dietary reconstruction of Spy I using dental microwear texture analysis](#) C.R. Palevol, 18(8):1083-1094.
18. Mathys A., Semal P., Brecko J. & Van den Spiegel D., 2019. [Improving 3D photogrammetry models through spectral imaging: Tooth enamel as a case study](#) PLoS One, 14(8):e0220949.
19. Wißing C., Rougier H., Baumann C., Comeyne A., Crevecoeur I., Drucker D., Gaudzinski-Windheuser S., Germonpré M., Gómez-Olivencia A., Krause J., Matthies T., Naito Y., Posth C., Semal P., Street M. & Bocherens H., 2019. [Stable isotopes reveal patterns of diet and mobility in the last Neandertals and first modern humans in Europe](#) Scientific Reports, 9(1):4433.