



Universität
Basel

Research Project

Small seeds for large purposes: an integrated approach to agricultural change and climate during the Neolithic in Western Europe

Third-party funded project

Project title Small seeds for large purposes: an integrated approach to agricultural change and climate during the Neolithic in Western Europe

Principal Investigator(s) [Antolin, Ferran](#) ;

Project Members [Steiner, Bigna](#) ; [Häberle, Simone](#) ; [Soterias Mané, Raul](#) ; [Schäfer, Marguerita](#) ; [Sousa Jesus, Ana Cláudia](#) ;

Organisation / Research unit

Departement Umweltwissenschaften / Archäobotanik (Antolin)

Department

Project Website <https://agrichange.duw.unibas.ch/en/home/>

Project start 01.01.2018

Probable end 31.12.2021

Status Completed

This project proposes an interdisciplinary approach to agricultural change and its causes during the Neolithic, particularly in connection to climate fluctuations. The study region includes the territories between the Po Valley, the High Rhine and the Ebro Valley. New research will be done in selected sites (unique in each of their regions) with optimal preservation conditions, with an emphasis on wetland sites.

Integrated approaches to palaeoecology and palaeoeconomy will be performed combining archaeobotany, archaeozoology and entomology. Large databases will be produced with the available archaeobotanical data, radiocarbon dates and underground storage features in the study region. A radiocarbon dating program will be combined with carbon isotope measurements to eventually approach agricultural change from a multi-proxy perspective and reach a better understanding of agricultural decision-making among early farmers.

Keywords archaeobotany, prehistoric agriculture, radiocarbon dating, geometric morphometrics, prehistoric lake dwellings, prehistoric networks, crop storage, palaeoecological reconstruction, on-site data, climatic fluctuations

Financed by

Swiss National Science Foundation (SNSF)

Add publication

Published results

4488476, Salavert, Aurélie; Martin, Lucie; Antolin, Ferran; Zazzo, Antoine, The opium poppy in Europe: exploring its origin and dispersal during the Neolithic, 0003-598X ; 1745-1744, Antiquity, JournalItem (Kommentare, Editorials, Rezensionen, Urteilsanmerk., etc. in einer wissensch. Zeitschr.

4526656, Antolín, Ferran; Schäfer, Marguerita, Insect pests of pulse crops and their management in Neolithic Europe, 1461-4103 ; 1749-6314, Environmental archaeology, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

4525187, de Vareilles, A.; Bouby, L.; Jesus, A.; Martin, L.; Rottoli, M.; Vander Linden, M.; Antolín, F., One Sea but many routes to sail. The early maritime dispersal of Neolithic crops from the Aegean to the western Mediterranean, 2352-409X, Journal of Archaeological Science-Reports, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

4510155, Edo, Manuel; Antolín, Ferran; Martínez, Pablo; Josefa, Maria; Fullola, Josep Maria; Mercè, Maria; Saña, Maria; Verdún, Esther; Fernández, Eva; Gamba, Cristina; Arroyo, Eduardo; Ache, Mireia; Gibaja, Juan Francisco; Palomo, Antoni; Clop García, Xavier; Manen, Claire; Convertini, Fabien, La cueva de Can Sadurní (Begues, Barcelona). El episodio funerario del neolítico antiguo cardial pleno. Estado actual de la cuestión, 978-84-946902-7-3, Mirando a la Muerte: Las prácticas funerarias durante el neolítico en el noreste peninsular, Publication: Book Item (Buchkap., Lexikonartikel, jur. Kommentierung, Beiträge in Sammelbänden etc.)

4510156, Edo, M.; Antolín, F.; Martínez, P.; Castellana, C.; Bardera, R.; Saña, M.; Bergadà, M. M.; Barrio, C.; Fierro, E.; Fullola, J. M., Cueva de Can Sadurní (Begues, Barcelona): hacia la definición del modelo funerario en cueva para el Neolítico medio I del noreste peninsular, 978-84-946902-7-3, Mirando a la Muerte: Las prácticas funerarias durante el neolítico en el noreste peninsular, Publication: Book Item (Buchkap., Lexikonartikel, jur. Kommentierung, Beiträge in Sammelbänden etc.)

4481517, Antolín, Ferran; Häberle, Simone; Jesus, Ana; Martínez-Grau, Hector; Prats, Georgina; Schäfer, Marguerita; Steiner, Bigna, The AgriChange Project: an integrated on-site approach to agricultural and land-use change in relation to climate during the Neolithic in Western Europe, 2411-605X ; 2411-9180, Past Global Changes Magazine, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

Add documents

Specify cooperation partners

ID	Kreditinhaber	Kooperationspartner	Institution	Laufzeit - von	Laufzeit - bis
4527318	Antolin, Ferran	Alonso, Natàlia, Prof. Dr.	University of Lleida	01.12.2018	31.12.2021
4527319	Antolin, Ferran	Bernasconi, Stefano, Prof. Dr.	ETH Zürich	01.01.2018	31.12.2021
4527322	Antolin, Ferran	Bouby, Laurent, Dr.	University of Montpellier, CNRS	01.01.2018	31.12.2021
4527323	Antolin, Ferran	Caracuta, Valentina, Dr.	University of Montpellier	01.01.2018	31.12.2021
4527324	Antolin, Ferran	Hajdas, Irka, Dr.	ETH Zürich	01.01.2018	31.12.2021
4527325	Antolin, Ferran	Kirleis, Wiebke, Prof. Dr.	Christian Albrechts-University in Kiel	01.01.2018	31.12.2021
4527326	Antolin, Ferran	Salavert, Aurélie, Prof. Dr.	MNHN, Paris	01.01.2018	31.12.2021
4527327	Antolin, Ferran	van Willigen, Samuel, Dr.	Schweizerisches Nationalmuseum	01.01.2018	31.12.2021