

**NATIONALITY:** Italian

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## **WEBSITES**

<https://www.unibo.it/sitoweb/sahra.talamo/>

<https://site.unibo.it/resolution-erc/en>

**PRINCIPAL INVESTIGATOR ERC STARTING GRANT:** N. 803147 - RESOLUTION

## **SCIENTIFIC RESEARCH METRICS**

Total of 102 articles in peer-reviewed journals:

H-index: 34 (GS 17.11.2021) Total number of citations: GS: 18,666

Total list of publications can be found at:

1) [https://www.researchgate.net/profile/Sahra\\_Talamo](https://www.researchgate.net/profile/Sahra_Talamo)

2) <https://scholar.google.it/citations?hl=it&user=vsrgBP0AAAAJ>

## **EDUCATION**

Graduated in Natural Sciences at the University of Milan; Title: "Le datazioni 14C: Datazioni tradizionali e tecniche di wiggle-matching applicate a Settimenti preistorici dell'area Padana"  
Supervisors: Leone Fasani & Bernd Kromer in 2002.

PhD in Archaeology at Leiden University / MPI-EVA; Title: "Refining 14C dating of bone >30,000 BP: Establishing an accurate chronology for the Middle to Upper Palaeolithic transition in France"  
Supervisors: Mike Richards & Jean-Jacques Hublin in 2012.

## **ACADEMIC CAREER**

After several years of contract research (from 2007 to 2019) for the Academy of Sciences in Heidelberg, Germany, to reconstruct the calibration curve up to 14,000 years BP, she becomes in 2012 Researcher at the Department of Human Evolution at the Max Planck Institute for Evolutionary Anthropology (MPI-EVA), Leipzig, Germany. In June 2019 Full Professor at the University of Bologna in the Department of Chemistry G. CIAMICIAN.

## **TEACHING ACTIVITY**

Since 2020 carries out with continuity teaching activity for the course of BIOLOGY FOR BIOARCHAEOLOGICAL MATERIALS AND CULTURAL HERITAGE Master Degree in Science for the conservation - restoration of cultural heritage

## **SCIENTIFIC ACTIVITY**

Participated and won an ERC starting grant in 2018 still in progress

Referee of international and Italian journals in the field of Radiometric Sciences, Archaeology and Human Evolution, for journals such as: Nature, Journal of Archaeological Science, Radiocarbon, PNAS, Journal of Human Evolution, Quaternary International, PloseOne, Heliyon.

She was supervising H.Fewlass, PhD (2015-2019) at the Department of Human Evolution at the Max Planck Institute for Evolutionary Anthropology (MPI-EVA), Leipzig, Germany. While since November 2019 she supervises two PhD students funded by the ERC\_StG project at the University of Bologna.

## **INSTITUTIONAL ACTIVITIES AND ACADEMIC APPOINTMENTS**

-2013-2019 Teaching of the Course: "Introduction to radiocarbon and the archaeological approach" at the course organized by "The Leipzig School of Human Origins", at the International Max Planck Research School by the University of Leipzig and the Max Planck Institute for Evolutionary Anthropology (Germany).

-From 2020- Member of the Teaching Board of the PhD program FRONTIERS (The future of the earth, climate change and social challenges).

-From November 2019- Supervisor of a 35 cycle PhD student in Future Earth, Climate Change and Societal Challenges (FRONTIERS). Funded by the Department of Chemistry "Giacomo Ciamician", University of Bologna, with funds from the ERC-RESOLUTION project. Obtained a first paper for his PhD: Cercatillo, S., M. Friedrich, B. Kromer, D. Paleček and S. Talamo (2021). "Exploring different methods of cellulose extraction for <sup>14</sup>C dating." *New J. Chem.*

-From November 2020- Supervisor of a 36th Cycle PhD student in CULTURAL AND ENVIRONMENTAL WELLS. Funded 50% by the Department of Chemistry "Giacomo Ciamician", University of Bologna, with funds from the ERC-RESOLUTION 36 Cycle.

-2015-2019 Supervisor of a PhD student at the Max Planck Institute for Evolutionary Anthropology (MPI-EVA), in Leipzig, Germany. PhD cum laude obtained at Leiden University, The Netherlands. Won the ESHE award for the best presentation in 2016. The following articles have been published:

1) Fewlass, H., S. Talamo, T. Tuna, Y. Fagault, B. Kromer, H. Hoffmann, C. Pangrazzi, J.-J. Hublin and E. Bard (2018). "Size Matters: Radiocarbon Dates of <200 µg Ancient Collagen Samples with AixMICADAS and Its Gas Ion Source." *Radiocarbon* 60(2): 425-439.

2) Fewlass, H., T. Tuna, Y. Fagault, J. J. Hublin, B. Kromer, E. Bard and S. Talamo (2019). "Pretreatment and gaseous radiocarbon dating of 40–100 mg archaeological bone." *Scientific Reports* 9(1): 5342.

3) Fewlass, H., S. Talamo, B. Kromer, E. Bard, T. Tuna, Y. Fagault, M. Sponheimer, C. Ryder, J.-J. Hublin, A. Perri, S. Sázlová and J. Svoboda (2019). "Direct radiocarbon dates of mid Upper Palaeolithic human remains from Dolní Věstonice II and Pavlov I, Czech Republic." *Journal of Archaeological Science: Reports* 27: 102000.

4) Fewlass, H., S. Talamo, L. Wacker, B. Kromer, T. Tuna, Y. Fagault, E. Bard, S. P. McPherron, V. Aldeias, R. Maria, N. L. Martisius, L. Paskulin, Z. Rezek, V. Sinet-Mathiot, S. Sirakova, G. M. Smith, R. Spasov, F. Welker, N. Sirakov, T. Tsanova and J.-J. Hublin (2020). "A <sup>14</sup>C chronology for the Middle to Upper Palaeolithic transition at Bacho Kiro Cave, Bulgaria." *Nature Ecology & Evolution* 4(6): 794-801.

## **MEMBERSHIP IN SCIENTIFIC COMMITTEES**

Since November 2012, she is a member of ESHE - European Society for the study of Human Evolution, and since 2018 he is a member of the steering committee of ESHE itself.

## **INTERNATIONAL COLLABORATIONS**

Several collaborations with scientific research institutes, universities, and museums all over the world. Some examples: Bard E. (CEREGE-AMS in Aix-en-Provence), Wacker L. (AMS in ETH Zurich), Friedrich R. (AMS in Mannheim), Reimer P. (Belfast University), Muscheler R. (Lund University), Solanki S. (Max-Planck-Institut for Solar System Research), Friedrich M. (Hohenheim University), Guérin G. & Lahaye C. (IRAMAT-CRP2A, Bordeaux Montaigne University, France), Büntgen U. (University of Cambridge), Fitzsimmons K. (Max Planck Institute for Chemistry), Benazzi S. (University of Bologna), Mannino M.A. (Aarhus University), Negrino F. (University of Genova), Peresani M. (University of Ferrara), Starnini E. (Museo Preistorico Nazionale dei Balzi Rossi), Zilhão J. (ICREA Universitat de Barcelona), Martini F. (Florence University), Richards M.P. (University of British Columbia), Balzeau A. (Musée de l'Homme), Soressi M. (Leiden University), Bicho N. (Faro University), Nadachowski M. (Krakow University), Rosell J. & Blasco R. (IPHES), Reich D. & Qiaomei F. (Harvard University), Pääbo S. & Myer M. (Max Planck Institute of Evolutionary Genetics), Krause J. (Max Planck Institute for the Science of Human History), Viola B. (University of Toronto), Sponheimer M. (University of Colorado), Welker F. (Globe Institute, University of Copenhagen), Hublin J.J. (Collège de France and MPI-EVA).

## **PARTICIPATION TO CONGRESSES**

Participation in several International Congresses:

ESHE European Society for the study of Human Evolution, EGU European Geosciences Union; General Assembly, Hugo Obermaier-Gesellschaft, International Radiocarbon Conference, ESF (European Science Foundation), SCIEM 2000, Archaeology and radiocarbon conference, Radiocarbon and Diet, Paleoanthropology Society, SAA Society for American Archaeology, 1839<sup>èmes</sup> journées scientifiques de la Société d'anthropologie de Paris, International Symposium on Biomolecular Archaeology (ISBA)

## **INVITED LECTURES**

2021 Workshop for the Ordine Giornalisti and the Fondazione Giornalisti dell'Emilia-Romagna and UGIS (Unione Giornalisti Italiani Scientifici). "To know and examine in order to divulge the incredible story about the ticking of Human Evolution".

2021 TED x (<https://www.ted.com/tedx/events/43511>): What happened to the Neanderthals? It's a matter of TIME.

2021 Trieste Next: ([https://www.triestenext.it/archives/gw\\_relatori/sahra-talamo](https://www.triestenext.it/archives/gw_relatori/sahra-talamo)).

2019 RESOLUTION: the drama between Neanderthals and Homo sapiens. European Forum for Science, Research and Innovation, Dresden

2017 Did Neanderthals meet Anatomically Modern Human? The Sun and Radiocarbon will tell. Max Planck Institute for Solar System Research, Göttingen

2017 La datazione dei resti umani del Riparo Mezzena. Palazzo della Gran Guardia, Verona, Italy

2017 Neanderthal met Modern Human. The Radiocarbon prospective. The University of Tübingen, Germany

2016 Did Neanderthals meet Anatomically Modern Human? Radiocarbon vis-a-vis Rolex clock. ETH Zurich.

2016 The radiocarbon approach to Neanderthals in a carnivore den site. A well-defined chronology for Teixoneres cave (Moià, Barcelona, Spain). IPHES, Institut Català de Paleoecologia Humana i Evolució Social, Tarragona, Spain.

2014 The integrity of the Grotte du Renne (Arcy-sur-Cure, France) Châtelperronian sequence. A radiometric perspective. Amphithéâtre de l'Institut de Paléontologie Humaine, Paris.

2012 Neanderthals Re-evaluation. Department of Geological Sciences, Stockholm University.

2012 Comparison of Middle to Upper Palaeolithic transition sites in Central France. An accurate chronology. IPHES, Institut Català de Paleoecologia Humana i Evolució Social, Tarragona, Spain.