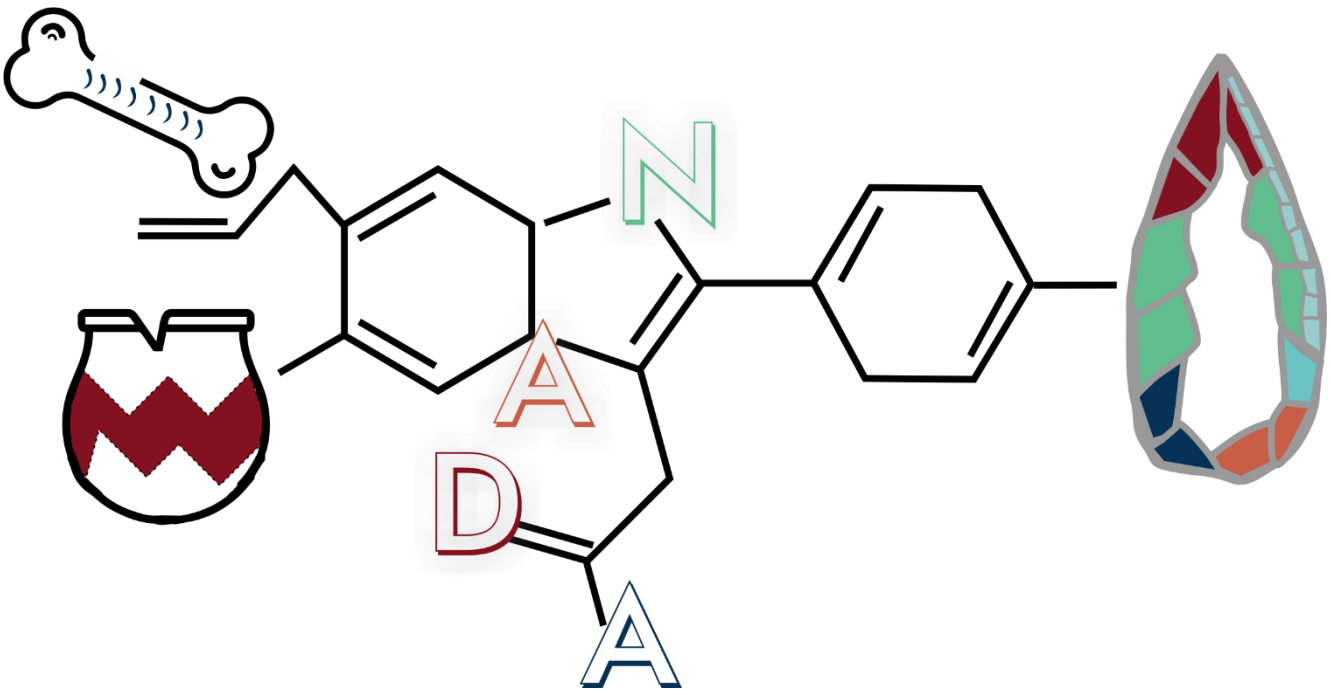


New Approaches in Digital Archaeology

Program

2021 December 1-2

New Approaches in

Conference Digital Archaeology

December 1st, Wednesday

11 a.m. Paris time/ 12 p.m. Jerusalem time/17 p.m. Novosibirsk time

Session 1

11:00-11:20. Alain QUEFFELEC, Léna BASSEL, Solène CAUX, Francesco D'ERRICO, Aline GALLAND, Lila GEIS, Solange RIGAUD. *Confocal microscopy for 3D surface texture characterization of diverse Paleolithic artifacts, and more*

11:20 – 11:40. Laurent LESCOP, Lidia V. ZOTKINA, Catherine CRETIN. *Custom tools for fine graving visualization*

11:40-12:00. Alisa ZUBOVA, Vyacheslav MOISEYEV, Alexander KULKOV, Ksenia KOLOBOVA. *From Europe to Siberia: Unexpected Journey in the Middle Paleolithic (dental evidence)*

12:00-12:20. Daniela Eugenia ROSSO, Francesco D'ERRICO, Alain QUEFFELEC. *Using surface analysis to understand ochre use during the Middle Stone Age*

12:20-12:40. Malvina BAUMANN, William RENDU, Kseniya KOLOBOVA, Svetlana SHNAIDER, Nicolas VANDERESSE, Hélène COQUEUGNIOT, Serge MAURY, Hugues PLISSON. *Neanderthal bone tools; looking for internal markers from use*

12:40-13:00. Antoine SOURON. *From microstriae on dental enamel to cut marks on bones: quantitative studies of 3D surfaces acquired via confocal microscopy*

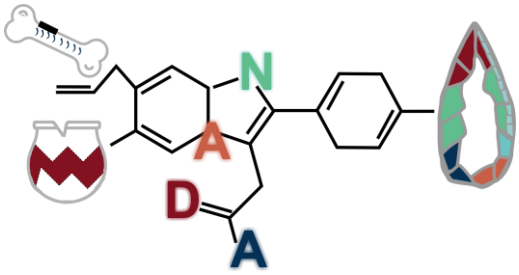
13:00 – 13:20 – coffee break

Session 2

13:20-13:40. Leore GROSMAN. *From traditional to computational archaeology*

13:40-14:00. Francesco VALLETTA. *Tracking prehistoric learning communities – A 3D-based computational approach to lithic manufacturing traditions in the Final Upper Palaeolithic and Epipalaeolithic of the Southern Levant*

14:00-14:20. Kseniya KOLOBOVA, Vladimir M. KHAREVICH, Willam RENDU, Malvina BAUMANN, Pavel CHISTYAKOV, Anastasiya KOLYASNIKOVA, Alena KHAREVICH. *The new approach to study bone retouchers: selectivity, size reduction and hand gesture.*



14:20-14:40. Ravil ZHDANOV, Ekaterina BOCHAROVA. *Android powered extension for Leica TS for archeology.*

December 2nd, Thursday

11 a.m. Paris time/ 12 p.m. Jerusalem time/17 p.m. Novosibirsk time

Session 3

11:00 – 11:20. Malgorzata KOT, Michał LELOCH, Galina PAVLENOK, Karol SZYMCZAK, Mukhiddin KHUDJANAZAROV, Konstantin PAVLENOK. *The use of predictive modeling in the search for Paleolithic sites in the western Tien Shan piedmont*

11:20-11:40. Filippo ZANGROSSI, Davide DELPIANO, Marco PERESANI. *Traditional approaches and 3D visual technology combined for the analysis of the inner structure of an artifacts' concentration*

11:40-12:00. Nataliya BEREZINA, Rustam ZIGANSHIN, Ksenia KOLOBOVA, Anna KOLIASNIKOVA, Stanislav MEDVEDEV, William RENDU, Alexandra BUZHILOVA. *Bison sex matters: the potential of using the method of determining the sex of bison by peptidomic analysis of tooth enamel to specify the subsistence strategies of ancient humans*

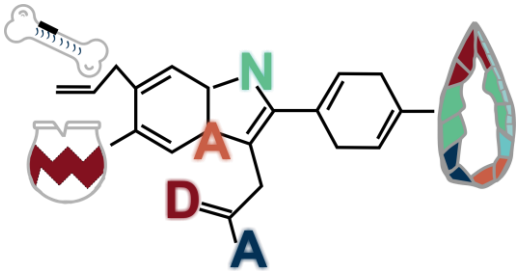
12:00 – 12:20. Arina KHATSENOVICH, Irina VISHNEVSKAYA, Evgeny MIKHEEV, Tatiana OKUNEVA, Dashzeveg BAZARGUR. *Preliminary results of application of Sr isotopic composition and geochemistry on the investigation of Paleolithic sites*

12:20-12:40. Radu IOVITA. *Lithic use wear analysis: toward reconciliation between classic and new approaches*

12:40 – 13:00 – coffee break

Keynote session

13:00-13:25. Ksenia KOLOBOVA. *3D studies in Digital laboratory of Institute of Archaeology and Ethnography SB RAS.*

13:25 -14:40. Hugues PLISSON. *3D patchwork in the frame of Artemir and ZooScan French-Russian partnership, from µ to sky view.*

Discussion