

Annual Meetings 2009

Dental eruption, age estimation, and life histories in papionin primates. S.R. LEIGH, R.M. BERNSTEIN, L.W. KONIGSBERG, Department of Anthropology, 109 Davenport Hall, 607 S. Matthews Avenue, University of Illinois, Urbana-Champaign, Urbana, IL 61801.

Estimating age from developing teeth: a comparison of methods. H.M. LIVERSIDGE, B.H. SMITH, M MABER, Institute of Dentistry, Barts and the London School of Medicine and Dentistry, Turner Street, London E1 2AD, UNITED KINGDOM.

Tooth development models predict Carabelli cusp variation: interaction effects and epigenetic mechanisms. T.C. WESTON, D. GUATELLI-STEINBERG, J.P. HUNTER, T.K. BETSINGER, Department of Anthropology, The Ohio State University, Columbus, Ohio 43210.

A radiographic comparison of root growth during eruption in modern human mandibular M2s. K.K. CATLETT, H.M. LIVERSIDGE, M.C. DEAN, Department of Anthropology, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ 85287-2402.

Near-eruption proportional root lengths of the mandibular canine and premolars SMITH SL, Department of Sociology & Anthropology, University of Texas at Arlington, Arlington, Texas 76019.

Dental attrition patterns in two late prehistoric skeletal collections from the Estremadura region of Portugal: comparisons and results. A.J. WATERMAN AND B.C. HORWATH, Department of Anthropology, 114 MacBride Hall, University of Iowa, Iowa City, Iowa 52242-1322.

Basques in an Indo-European sea: a perspective from tooth crown morphology. GR SCOTT, Department of Anthropology, 1664 North Virginia Street, MS 0096, Reno, Nevada 89557-0096.

Dental aging using multiple tooth wear indicators in conjunction with antemortem tooth loss. P. SELINSKY, Department of Anthropology, University of Pennsylvania, Philadelphia, PA 19104.

Baby death and baby teeth: analysis of dental defects in the deciduous dentition from Tell Abraq (2300 B.C.) J.L. THOMPSON, D.L. MARTIN, D.T. POTTS, Department of Anthropology & Ethnic Studies, University of Nevada, Las Vegas, Las Vegas, Nevada 89154.

The skeletal remains from Kamennyi Ambar 5, a Middle Bronze Age Sintashta site of early metallurgy. Part I: dental pathology. M.E. KOVACIK, M. JUDD, B. HANKS, D. RAJEV, A. EPIMAKHOV, Department of Anthropology, University of Pittsburgh, Pittsburgh, PA 15260.

Biological structure of the Early and Middle Holocene Gobero site burial complex, Niger, Western Sahara desert. K.A. MILLER, C.M. STOJANOWSKI, Center for Bioarchaeological Research, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ 85287-2402.

Buccal dental microwear pattern as an indicator of dietary behaviour in a human Neolithic tooth sample from Abu Hureyra. M. ALROUSAN, A. PEREZ-PEREZ, T. MOLLESON, Anthropology Unit, Department of Animal Biology, University of Barcelona, Avinguda Diagonal 645, 08028 Barcelona, SPAIN.

Permanent-tooth emergence among the Gullah of St. James Island (Outer Banks, South Carolina). J.E. SPENCE, DEBBIE GUATELLI-STEINBERG, Department of Anthropology, The Ohio State University, Columbus, Ohio 43210.

Dental microwear texture analysis of the Amarna workers. J.R. SCOTT, K.L. KRUEGER, B. KEMP, J.C. ROSE, Department of Environmental Dynamics, University of Arkansas, Fayetteville, Arkansas 72701.

Dental Health in Prehistoric Central California: Sex Differences in Two Windmill Populations from the Sacramento Valley. K.E. KOLPAN AND E.J. BARTELINK, Department of Anthropology, California State University, Chico, 400 West First Street, Chico, CA 95929-0400.

Caries and dental abscess prevalence among Florida Archaic Hunter-gatherers from the burial sites of Gautier (8BR193), Bay West (8CR200), and Windover (8BR246). C.E. HERRICK, H.A. WALSH-HANEY, D. KLIENFELDER, K.L. SHEPHERD, L.E. GIBSON, Division of Justice Studies, Florida Gulf Coast University, Fort Meyers, FL 33965-6565.

Evidence for subsistence strategy differences in pre-contact Ipiutak and Tigara of Point Hope, Alaska. F.C. MADIMENOS, Department of Anthropology, University of Oregon, Eugene, Oregon 97403.

Anthropological study of dental metric and non-metric traits in 5 Chinese minorities in Yunnan Province. E. KANAZAWA, Department of Anatomy and Physical Anthropology, Nihon University, School of Dentistry, 2-870-1 Sakaecho-Nishi, Matsudo, Japan.

Tooth use in Aboriginal Australia. A. CLEMENT, S. HILLSON, I. DE LA TORRE, G. TOWNSEND, Institute of Archaeology, 31-34 Gordon Square, University College London, London WC1H 0PY, United Kingdom.

Diet, culture change, dental disease and tooth wear in prehistoric southern Peru. S. HILLSON, M. KOLP-GODOY ALLENDE, S. GUILLEN. Institute of Archaeology, 31-34 Gordon Square, University College London, London WC1H 0PY, United Kingdom.

Dental Morphological Traits in Pre-Incaic Populations of the Andes: Interpreting the Biocultural Evolution in the Osmore Valley. C. ARGANINI, A. CUCINA, G.F. DE STEFANO, A. COPPA, Facultad de Ciencias Antropologicas, Universidad Autonoma de Yucatan, Merida, Yucatan, MEXICO.

Preliminary analyses of dental health in Middle Horizon (AD 500-1000) San Pedro de Atacama, northern Chile. B.M. DAVERMAN, L.M. KING, AND C. TORRES-ROUFF, Department of Anthropology, 14 E. Cache La Pude, Colorado College, Colorado Springs, Colorado 80903.

Meat, bread, scratches and pits: Analysis of dental microwear on Byzantine monastic dentition from Jerusalem. KATHRYN KEEGAN, SUSAN GUISE SHERIDAN, PH.D., JAIME ULLINGER, MA, Department of Anthropology, University of Notre Dame, 611 Flanner Hall, University of Notre Dame, South Bend, Indiana 46556.

In vivo turnover rates in human buccal dental-microwear. A. ROMERO, J. GALBANY, N. MARTINEZ-RUIZ, J. DE JUAN, Department of Biotechnology, Ap.de Correos 99, University of Alicante, E-03080 Alicante, SPAIN.

Development of M1 enamel thickness. P. MAHONEY, Department of Anthropology, University of Kent, Canterbury Kent CT2 7NZ, UNITED KINGDOM.

Dental enamel increments reveal relationships to ecological factors in cebid primates. R. HOGG, Department of Pathology & Anatomical Sciences, University of Missouri School of Medicine, Columbia, Missouri 65212.

Three-dimensional digital morphology of small-bodied platyrrhine molar teeth. S.B. COOKE AND A.L. ROSENBERGER, Department of Anthropology, The Graduate Center of the City University of New York, 365 Fifth Avenue, New York, NY 10016.

Postcanine occlusal loading and relative dental arcade width in pitheciine primates. J.A. LEDOGAR, Department of Anthropology, Stony Brook University, Stony Brook, NY 11794-4364.

Tooth wear, age and diet in a living population of baboons from Amboseli (Kenya). J.GALBANY, J.ALTMANN, A.PEREZPEREZ, S.C. ALBERTS, Department of Biology, Box 90338, Duke University, Durham, NC 27708.

Accentuated lines in baboon tooth enamel reflect weaning stress. W. DIRKS, L.T. HUMPHREY, M.C. DEAN, T.E. JEFFRIES, School of Dental Sciences, Newcastle University, Newcastle upon Tyne, NE1 7RU, UNITED KINGDOM.

Molarization in extant primates. L. LUCAS, G.T. SCHWARTZ, M.A. SPENCER, Department of Anthropology, School of Human Evolution and Culture Change, Arizona State University, Tempe, AZ 85287-2402.

Dental wear in African apes: is a certain amount of attrition advantageous? A.A. ELGART, Department of Biological Sciences, Florida Gulf Coast University, Fort Meyers, FL 33965-6565.

Sex differences in canine crown fluctuating asymmetry Gorilla gorilla: A result of ontogenetic mechanisms underlying adult canine size sexual dimorphism? S.A. MARTIN, D. GUATELLI-STEINBERG, P.W. SCIULLI, Department of Anthropology, The Ohio State University, Columbus, Ohio 43210.

Dental tissue proportions in the deciduous dentition of the immature individuals from Roc de Marsal (Neanderthal) and La Madeleine (late Upper Paleolithic), Dordogne, France. Implications for dental developmental patterns. P. BAYLE, J. BRAGA, A. MAZURIER, R. MACCHIARELLI, FRE 2960 CNRS, Universite Paul Sabatier, 118 Route de Narbonne , 31062 Toulouse CEDEX 9, France.

Comparison of Fluctuating Dental Asymmetry in Neandertals and Inuit. C. BARRETT, D. GUATELLI-STEINBERG, P. SCIULLI, Department of Anthropology, The Ohio State University, Columbus, Ohio 43210.

Hominin dental structure and development revealed non-destructively by multiscale synchrotron imaging P. TAFFOREAU, J.-J. HUBLIN, T.M. SMITH, European Synchrotron Radiation Facility, 6 RUE JULES HOROWITZ, BP 220 38043 GRENOBLE CEDEX 9, FRANCE.

Analysis of dental pathologies in a medieval Scandinavian sample, with a comparison to prevalence of cribra orbitalia. S. CARRAHER, C. L. HANSON, Department of Anthropology, Beatrice McDonald Hall, University of Alaska, Anchorage, Anchorage, Alaska 99508.

Incisor Root Morphology in Neanderthals and Homo sapiens. A. LE CABEC K. KUPCZIK, J. BRAGA, J.-J. HUBLIN, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, 04103 Leipzig, GERMANY.

Buccal dental microwear and tooth crown morphology in Neandertals and modern humans show significant correlations with prevailing climatic conditions throughout the Middle and Upper Paleolithic in Europe. B. PINILLA, A. PEREZ-PEREZ, Anthropology Unit, Department of Animal Biology, University of Barcelona, Avinguda Diagonal 645, 08028 Barcelona, SPAIN.

Occlusal molar microwear texture analysis of Middle and Upper Paleolithic juveniles. S. EL ZAATARI AND J-J HUBLIN, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, 04103 Leipzig, Germany.

Molar crown development in Australopithecus afarensis and aspects of hominin life history. R.S. LACRUZ, F.V. RAMIREZ ROZZI, Center for Craniofacial Molecular Biology, School of Dentistry, 925 West 34th Street, University of Southern California, Los Angeles, CA 90089-0641.

Buccal dental microwear analyses show that Australopithecus afarensis might have benefited from both closed woodland and open savannah environments independently of climatic conditions. F. ESTEBARANZ, A. PEREZ-PEREZ, L.M. MARTINEZ, J. GALBANY, D. TURBON, Anthropology Unit, Department of Animal Biology, University of Barcelona, Avinguda Diagonal 645, 08028 Barcelona, SPAIN.

Trait independence in Eocene primate dental evolution. K. E. CARTER, Department of Anthropology, Rufus D. Smith Hall, 25 Waverly Place, New York University, New York, NY 10003.

Are there really any hominoid sclerocarp foragers in the middle Miocene? A closer look at the anterior dental evidence. A.S. DEANE, Department of Anatomy and Neurobiology, University of Kentucky, Lexington, KY 40536-3625.

Dental Development in the Tai Forest Chimpanzees Reappraised. T.M. SMITH, B.H. SMITH, C. BOESCH, Department of Anthropology, Harvard University, Cambridge, MA 02138.

Dietary diversity and dental microwear variability in Theropithecus gelada and Papio cynocephalus. R.S. SCOTT, M.F. TEAFORD, P.S. UNGAR, Department of Anthropology, 131 George Street, Rutgers University, New Brunswick, NJ 08901-1414.

Late Pleistocene/Holocene human populations transition in Old World: the analysis of morphological dental traits. A. COPPA, F. CANDILIO, A. CUCINA, F. DEMETER, A.KUTTERER, M. LUCCI, F. MANNI, A. OUJAA, S. ROUDESLI-CHEBBI, R. VARGIU, Universita di Roma, "La Sapienza", Piazzale Aldo Moro 5, 00185 Roma, Italy.

Important variations in dental trait expression at the EDJ throughout an Australopithecus africanus entire postcanine dentition. J. BRAGA, F. THACKERAY, G. SUBSOL, J. TREIL, G. DASGUPTA, FRE 2960 CNRS, Universite Paul Sabatier, 118 Route de Narbonne, 31062 Toulouse CEDEX 9, France.

Buccal dental microwear analyses in Paranthropus boisei, Homo habilis and Homo ergaster confirm that buccal microwear is highly informative of dietary habits and ecological conditions in fossils hominin species. L.M. MARTINEZ, A. PEREZ-PEREZ, Anthropology Unit, Department of Animal Biology, University of Barcelona, Avinguda Diagonal 645, 08028 Barcelona, SPAIN.

New ages at first molar emergence in extant great apes and a reassessment of early hominin first molar emergence ages. J. KELLEY, G.T. SCHWARTZ, Department of Oral Biology, University of Illinois at Chicago, College of Dentistry, 801 South Paulina Street, Chicago, IL 60612.

The functional significance of canine height reduction in early hominins. W.L. HYLANDER, Department of Evolutionary Anthropology, Duke University, Durham, NC 27708.

The genetics of normal variation in the mammalian dentition. S.J. SHOLTIS, K. KAWASAKI, C.S. SHASHIKANT, K.M. WEISS, Department of Genetics, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208005, New Haven, CT 06520-8005.

Evaluating genes related to non-metric dental variation in European Americans. L.N. PEARSON, A.L. WEDDLE, M.D. SHRIVER, Department of Anthropology, 409 Carpenter Hall, Pennsylvania State University, University Park, PA 16802.

Genetics of tooth morphology: Assessing the diversity of gene expression patterns for early tooth development in mammals. BROOKE A. ARMPFIELD, CHRISTOPHER J. VINYARD, J.G.M. THEWISSEN, Dept. of Anatomy & Neurobiology, Northeastern Ohio Universities Colleges of Medicine, Rootstown, Ohio 44272.

The Genetics of Morphology: The Primate Dentition. L.J. HLUSKO, O.T. RIZK, M.C. MAHANEY, Dept. of Integrative Biology, 3060 Valley Life Sciences Building, University of California, Berkeley, Berkeley, CA 94720.

How many genes does it take to make mammalian dental diversity? J. JERNVALL, I. SALAZAR-CIUDAD, S.J. KING, I. CORFE, Institute of Biotechnology, University of Helsinki, P.O. Box 56, Viikinkaari 9, 00014 Helsinki, FINLAND.

Variation in dental tissue distribution in molar crowns of human males and females. R.N.M. FEENEY, A.J. OLEJNICZAK, D. GUATELLI-STEINBERG, J.-J. HUBLIN, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, 04103 Leipzig, Germany.

The Caries-Attrition Relationship: A View from Precontact Central California. M.C. GRIFFIN, J.A. SNYDER, D. GRANT, Department of Anthropology, 1600 Holloway Avenue, SCI 377, San Francisco State University, San Francisco, CA 94132.

Among the enemy: Dental affinities of the C-Group Nubians at Hierakonpolis, Egypt. J.D. IRISH, Department of Anthropology, 310 Eielson Building, University of Alaska, Fairbanks, Fairbanks, AK 99775.

Human occlusion in past and present. Edge-to-Edge as physiologically adapted bite. A. ROSSBACH AND KW ALT, Department of Anthropology, Johannes Gutenberg Universität—Mainz, 55099 Mainz, GERMANY.

Health status and lifestyle in early Neolithic and later Iron Age Taiwan: dental indicators. M. PIETRUSEWSKY, A.J. LAUER, C.H. TSANG, Department of Anthropology, Saunders Hall 346, University of Hawaii, Manoa, Honolulu, Hawaii 96822.

Resolving the mystery of the Kylindra cemetery: deciduous tooth development in ancient Greece. C. FITZGERALD, S. HILLSON, Department of Anthropology, McMaster University, Hamilton, Ontario L8S4L8, CANADA.

Incisor microwear textures of five bioarcheological groups. KRISTIN L. KRUEGER AND PETER S. UNGAR, Department of Anthropology, University of Arkansas, Fayetteville, Arkansas 72701.

Assessment of the dietary transition in the Southern Lower Mississippi Valley through the analysis of dental paleopathologies. G.A. LISTI, Department of Geography & Anthropology, 227 Howe-Russell Geoscience Complex, Louisiana State University, Baton Rouge, Louisiana 70803.

Comparative morphology of modern Malay and fossil deciduous teeth from central Java (Indonesia). J.R. LUKACS, S. KUSWANDARI, J ARIF, Department of Anthropology, University of Oregon, Eugene, Oregon 97403.

A study of human growth in London over the past 1000 years using tooth histology to determine a precise age-at-death. D.M. ANTOINE, S.W. HILLSON, D. KEENE, G. MILNE, A. WALDRON AND W. WHITE, Institute of Archaeology, University College London, 31-34 Gordon Square, London WC1H 0PY, UNITED KINGDOM.

Paleoepidemiology of periodontal disease and dental calculus in the Windover population. MT FASHING, Department of Anthropology, 1847 W. Tennessee Street, Florida State University, Tallahassee, FL 32304.

Dental roots morphology and phylogeny of hominoids. E.-G. EMONET, P. TAFFOREAU, Y. CHAIMANEE, L. DE BONIS, G. KOUFOS, J.-J. JAEGER, Institut international de Paleoprimatologie, Paleontologie Humaine, Natural Sciences Building, 40 Avenue du Recteur Pineau, Universite de Poitiers, 86022 Poitiers, FRANCE.

Sub-Adult sex estimation with dental cervicometrics. A. LOPINTO, S. HILLSON, Department of Anthropology, University of Arkansas, Fayetteville, Arkansas 72701.