

# CONTENTS

CHAPTER 1	<b>Introduction: The Excavation of Tomb 16/H/50 and Burial 16/H/45</b> MATTHEW J. ADAMS, MELISSA S. CRADIC AND ISRAEL FINKELSTEIN	1
CHAPTER 2	<b>Stratigraphy, Architecture and Funerary Practices in Tomb 16/H/50 and Burial 16/H/45</b> MELISSA S. CRADIC AND MATTHEW J. ADAMS	9
CHAPTER 3	<b>The Human Skeletal Remains from Tomb 16/H/50</b> RACHEL E. KALISHER	53
CHAPTER 4	<b>The Human Skeletal Remains from Burial 16/H/45</b> RACHEL E. KALISHER	81
CHAPTER 5	<b>Cranial Trephination and Infectious Disease in the Eastern Mediterranean: The Evidence from Two Elite Brothers from Late Bronze Megiddo</b> RACHEL E. KALISHER, MELISSA S. CRADIC, MATTHEW J. ADAMS, MARIO A.S. MARTIN AND ISRAEL FINKELSTEIN	97
CHAPTER 6	<b>Food Offerings in Elite Tombs: Faunal Remains from Tomb 16/H/50 and Burial 16/H/45</b> LIDAR SAPIR-HEN	115
CHAPTER 7	<b>The Local Ceramics</b> HELENA ROTH AND ASSAF YASUR-LANDAU	129
CHAPTER 8	<b>Cypriot Pottery from Tomb 16/H/50 and Burial 16/H/45</b> ASSAF YASUR-LANDAU	161
CHAPTER 9	<b>Bone-Inlaid Boxes from Tomb 16/H/50</b> LIAT NAEH	169
CHAPTER 10	<b>Jewelry from Burial 16/H/45 and Tomb 16/H/50</b> AMIR GOLANI	205
CHAPTER 11	<b>A Scarab from Tomb 16/H/50</b> IDO KOCH	227
CHAPTER 12	<b>Chemical and Isotopic Analysis of Silver, Copper and Gold Artifacts from Tomb 16/H/50</b> TZILLA ESHEL, YIGAL EREL, OFIR TIROSH AND NAAMA YAHALOM-MACK	229

CONTENTS

CHAPTER 13	<b>DNA of Individuals from Tomb 16/H/50 and Burial 16/H/45</b> LILY AGRANAT-TAMIR, BENJAMIN YAKIR, SHAI CARMI, MARIO A.S. MARTIN, ISRAEL FINKELSTEIN AND LIRAN CARMEL	235
CHAPTER 14	<b>Multi-Isotope Study of Bone Collagen from Tomb 16/H/50</b> LINDA M. REYNARD, MELISSA S. CRADIC, ROBERT S. HOMSHER AND NOREEN TUROSS	241
CHAPTER 15	<b>Strontium Isotope Analysis of Human Remains at Middle Bronze Age to Late Bronze Age Megiddo</b> STEFANIE EISENMANN, LAUREL POOLMAN, JULIA SCHWARZ, ASTRID WICKLER, DOMINIC ANDERS, MARINA VOHBERGER-HERLES, PETRUS LE ROUX, JANA ILGNER, PATRICK ROBERTS AND PHILIPP W. STOCKHAMMER	255
CHAPTER 16	<b>Combustion Fuel Sources and Aquatic Invertebrate Biomarkers in the Dental Calculus from Tomb 16/H/50 and Burial 16/H/45</b> STEPHEN BUCKLEY, JOANN FLETCHER, CYNTHIANNE SPITERI AND PHILIPP W. STOCKHAMMER	281
CHAPTER 17	<b>Proteomic and Microremains Analysis of Human Dental Calculus from Middle Bronze III and Late Bronze I Megiddo</b> ASHLEY SCOTT, ROBERT C. POWER, STEFANIE EISENMANN, ISRAEL FINKELSTEIN, PHILIPP W. STOCKHAMMER AND CHRISTINA WARINNER	291
CHAPTER 18	<b>First Evidence for Vanillin in the Old World: Its Use as Mortuary Offering in Middle Bronze Canaan</b> VANESSA LINARES, MATTHEW J. ADAMS, MELISSA S. CRADIC, ISRAEL FINKELSTEIN, ODED LIPSCHITS, MARIO A.S. MARTIN, RONNY NEUMANN, PHILIPP W. STOCKHAMMER AND YUVAL GADOT	303
CHAPTER 19	<b>Burial Offerings in Intramural Tombs at Middle Bronze Age Megiddo</b> AYALA AMIR, RACHEL E. KALISHER, MELISSA S. CRADIC, MATTHEW J. ADAMS, MARIO A.S. MARTIN, RONNY NEUMANN, YUVAL GADOT AND ISRAEL FINKELSTEIN	317
CHAPTER 20	<b>Paleoethnobotanical Assessment of a Funerary Charcoal Assemblage from Tomb 16/H/50</b> MORDECHAY BENZAQUEN AND DAFNA LANGGUT	341
CHAPTER 21	<b>Macrobotanical Remains: Seeds and Fruits</b> JOHN M. MARSTON AND KALI R. WADE	355
CHAPTER 22	<b>Phytolith Results from Tomb 16/H/50</b> KALI R. WADE AND JOHN M. MARSTON	365
CHAPTER 23	<b>Using Morphometrics to Identify Cereal Phytoliths in Tomb 16/H/50</b> EMILY BROWN, KALI R. WADE AND JOHN M. MARSTON	395
CHAPTER 24	<b>Conclusions</b> MATTHEW J. ADAMS, MELISSA S. CRADIC AND ISRAEL FINKELSTEIN	407