

SUPPLEMENTARY MATERIALS

Suppl. Mat. 1

Molecules detected in Phoenician dental calculus by GC-MS, excluding *n*-alkanes and *n*-alkenes.

| Burial 3 | | |
|------------------------|--|-----------------------------------|
| Sugars | | Lactose |
| Amino acids | | Asparagine |
| Fatty acids | Saturated | |
| | Dodecanoic acid; Tridecanoic acid; Hexadecanoic acid; Heneicosanoic acid; Triacontanoic acid | |
| | Unsaturated | omega-3 |
| omega-6 | | 9,12-Octadecadienoic acid |
| Alcohols | | Decanol; Tetradecanol; Tricosanol |
| Terpens and terpenoids | Monoterpenes and derivatives | Levomenthol; Citronellol |

| Burial 4 | | |
|---|---|-------------|
| Sugars | | Mannose |
| Amino acids | | Serine |
| Fatty acids | Saturated | |
| | Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid; Heneicosanoic acid; Pentacosanoic acid | |
| | Unsaturated | omega-6 |
| Alcohols | | |
| Decanol; Methyl-dodecanol; Tetradecanol | | |
| Terpens and terpenoids | Monoterpenes and derivatives | Levomenthol |

| Burial 8 | | |
|------------------------|---|--|
| Amino acids | | Serine |
| Fatty acids | Saturated | |
| | Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid; Pentacosanoic acid | |
| Alcohols | | Dodecanol; Tetradecanol; 9-Octadecenol; Heptacosanol; Triacontanol |
| Terpens and terpenoids | Monoterpenes and derivatives | alpha-Pinene |

| Burial 9 | | |
|--------------------------------|--------------------------------------|-------------|
| Sugars | | Lactose |
| Fatty acids | Saturated | |
| | Hexadecanoic acid; Octadecanoic acid | |
| | Unsaturated | omega-9 |
| Terpens and terpenoids | | |
| Monoterpenes and derivatives | | Levomenthol |
| Sesquiterpenes and derivatives | | Carotol |

| Burial 10 | | |
|---|-----------|--------|
| Amino acids | | Serine |
| Fatty acids | Saturated | |
| Butanoic acid; Hexadecanoic acid; Octadecanoic acid | | |

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|----------|-------------|---------|---------------------|
| | Unsaturated | omega-9 | 7-Hexadecenoic acid |
| Alcohols | | | Dodecanol |

| Burial 11 | | | |
|------------------------------------|------------------------------|--|--|
| Amino acids | | | Serine |
| Fatty acids | Saturated | | Butanoic acid; Hexadecanoic acid; Octadecanoic acid; Docosanoic acid |
| | Unsaturated | | 3-Octenoic acid |
| Alcohols | | | Dodecanol; Methyl dodecanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | beta-Ocimene |
| Phenolic compounds and derivatives | | | Anisole |

| Burial 12 | | | |
|------------------------|--------------------------------|--|---|
| Amino acids | | | Alanine; Serine |
| Fatty acids | Saturated | | Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid |
| Alcohols | | | Decanol; Methyl dodecanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | alpha-Pinene |
| | Diterpenes and derivatives | | Abietic acid |
| | Sesquiterpenes and derivatives | | alpha-Cedrene; Junenol; Salvialenone |

| Burial 16 | | | |
|------------------------|------------------------------|---------|--|
| Sugars | | | Glucose |
| Amino acids | | | Serine |
| Fatty acids | Saturated | | Pentanoic acid; Hexadecanoic acid; Octadecanoic acid; Tetracosanoic acid |
| | Unsaturated | omega-3 | Docosahexaenoic acid |
| | | omega-6 | 9,12-Octadecadienoic acid |
| Alcohols | | | Dodecanol; Tetracosanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | Citronellol; alpha-Pinene; Limonenol |
| Other markers | | | Sesamin |

| Burial 18 | | | |
|------------------------|--------------------------------|---------|--|
| Amino acids | | | Lysine |
| Fatty acids | Saturated | | Butanoic acid; Hexadecanoic acid; Triacontanoic acid |
| | Unsaturated | omega-6 | 9,12-Octadecadienoic acid |
| Alcohols | | | Nonanol; Dodecanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | delta-Carene; beta-Ocimene |
| | Sesquiterpenes and derivatives | | Spirojatamol |
| Other plant markers | | | Tartaric acid; Thiocyanic acid |

| Burial 20 | | | |
|------------------------|------------------------------|--|--------------------------------------|
| Fatty acids | Saturated | | Hexadecanoic acid; Octadecanoic acid |
| Terpens and terpenoids | Monoterpenes and derivatives | | Sabinol; alpha-Pinene |

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|--|----------------------------|---------------------|
| | Diterpenes and derivatives | Dehydroabietic acid |
|--|----------------------------|---------------------|

| Burial 21 | | | |
|------------------------|--------------------------------|---------------------------|---|
| Sugars | | Lactose | |
| Amino acids | | Serine | |
| Fatty acids | Saturated | | Butanoic acid; Hexadecanoic acid; Octadecanoic acid; Tetracosanoic acid |
| | Unsaturated | omega-3 | Docosaehaenoic acid |
| | | omega-6 | 5,8,11,14-Eicosatetraenoic acid |
| | | omega-9 | 9-Octadecenoic acid |
| Alcohols | | Decanol | |
| Terpens and terpenoids | Monoterpenes and derivatives | alpha-Pinene; Citronellol | |
| | Sesquiterpenes and derivatives | Spirojatamol | |

| Burial 23 | | | |
|------------------------|--------------------------------|---------------------------|--|
| Fatty acids | Saturated | | Hexanoic acid; Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid |
| | Unsaturated | Omega-3 | Docosaehaenoic acid |
| | | omega-9 | 7-Hexadecenoic acid |
| Alcohols | | Tetradecanol | |
| Terpens and terpenoids | Monoterpenes and derivatives | Citronellol; alpha-Pinene | |
| | Sesquiterpenes and derivatives | Cedrol | |

| Burial 24 | | | |
|------------------------|------------------------------|---------------------------|---|
| Sugars | | Glucose | |
| Amino acids | | Serine | |
| Fatty acids | Saturated | | Butanoic acid; Tridecanoic acid; Hexadecanoic acid; Octadecanoic acid |
| | Unsaturated | omega-9 | 9-Octadecenoic acid |
| Terpens and terpenoids | Monoterpenes and derivatives | alpha-Pinene; Citronellol | |
| Other plant markers | | Tartaric acid | |

| Burial 25 | | | |
|------------------------|------------------------------|---------------------------|--|
| Amino acids | | Serine | |
| Fatty acids | Saturated | | Nonanoic acid; Hexadecanoic acid; Triacontanoic acid |
| | Unsaturated | omega-3 | Eicosapentaenoic acid |
| | | omega-9 | 9-Octadecenoic acid |
| Terpens and terpenoids | Monoterpenes and derivatives | Citronellol; alpha-Pinene | |

| Burial 30.02 | | |
|--------------|--|--------------------|
| Sugars | | Galactose; Lactose |
| Amino acids | | Serine |

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|------------------------|--------------------------------|---------|---|
| Fatty acids | Saturated | | Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid; Eicosanoic acid; Heneicosanoic acid; Docosanoic acid; Tetracosanoic acid; Hexacosanoic acid; Heptacosanoic acid; Octacosanoic acid; Triacontanoic acid |
| | Unsaturated | omega-3 | Docosahexaenoic acid |
| | | omega-6 | 9,12-Octadecadienoic acid |
| | | omega-7 | 9-Hexadecenoic acid; 11-Hexadecenoic acid |
| | | omega-9 | 7-Hexadecenoic acid; 9-Octadecenoic acid |
| Alcohols | | | Decanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | Isomenthol; delta-Carene |
| | Sesquiterpenes and derivatives | | Curdione |

| Burial 30 | | | |
|------------------------|------------------------------|---------|--|
| Sugars | | | Galactose |
| Fatty acids | Saturated | | Butanoic acid; Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid |
| | Unsaturated | omega-9 | 7-Hexadecenoic acid |
| Alcohols | | | 1-Decanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | alpha-Pinene; Citronellol |
| Other plant markers | | | Tartaric acid |

| Burial 31 | | | |
|------------------------|--------------------------------|---------|--|
| Amino acids | | | Alanine |
| Fatty acids | Saturated | | Hexadecanoic acid; Octadecanoic acid; Tetracosanoic acid |
| | Unsaturated | omega-3 | Eicosapentaenoic acid |
| | | omega-6 | 9,12-Octadecadienoic acid |
| | | omega-9 | 9-Octadecenoic acid |
| Alcohols | | | Dodecanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | alpha-Pinene |
| | Sesquiterpenes and derivatives | | alpha-Acoradiene |

| Burial 32 | | | |
|------------------------------------|------------------------------|---------|---|
| Sugars | | | Glucose |
| Amino acids | | | Serine |
| Fatty acids | Saturated | | Dodecanoic acid; Hexadecanoic acid; Octadecanoic acid; Triacontanoic acid |
| | Unsaturated | omega-3 | Docosahexaenoic acid |
| | | omega-9 | 9-Octadecenoic acid |
| Alcohols | | | Undecanol |
| Terpens and terpenoids | Monoterpenes and derivatives | | delta-Carene |
| Phenolic compounds and derivatives | | | 6-Methyloctahydrocoumarin |

| Burial 33 | | | |
|-------------|-----------|--|----------------------------------|
| Amino acids | | | Serine |
| Fatty acids | Saturated | | Butanoic acid; Octadecanoic acid |

| | | | |
|------------------------|--------------------------------|----------|----------------------------|
| | Unsaturated | omega-9 | 7-Hexadecenoic acid |
| | | omega-12 | 6-Octadecenoic acid |
| Terpens and terpenoids | Monoterpenes and derivatives | | Citronellol; alpha-Pinene |
| | Sesquiterpenes and derivatives | | Sesquicineole |
| Other markers | | | Orotic acid; Tartaric acid |

Supp. Mat. 2

Results of lab contamination tests by horizontal slide trap (others: fibres, hairs, dust residues).

| Context | Location of traps (number) | Starches | Pollen grains | Others | Total |
|------------------------------|-----------------------------------|-----------------|----------------------|---------------|--------------|
| Workday | workbench (10) | 1 | 2 | 0 | 3 |
| | floor (10) | 5 | 3 | 2 | 10 |
| | shelf (5) | 2 | 1 | 0 | 3 |
| | hood (5) | 0 | 0 | 0 | 0 |
| After decontamination | workbench (10) | 0 | 0 | 0 | 0 |
| | floor (10) | 1 | 0 | 0 | 1 |
| | shelf (5) | 1 | 0 | 0 | 1 |
| | hood (5) | 0 | 0 | 0 | 0 |

