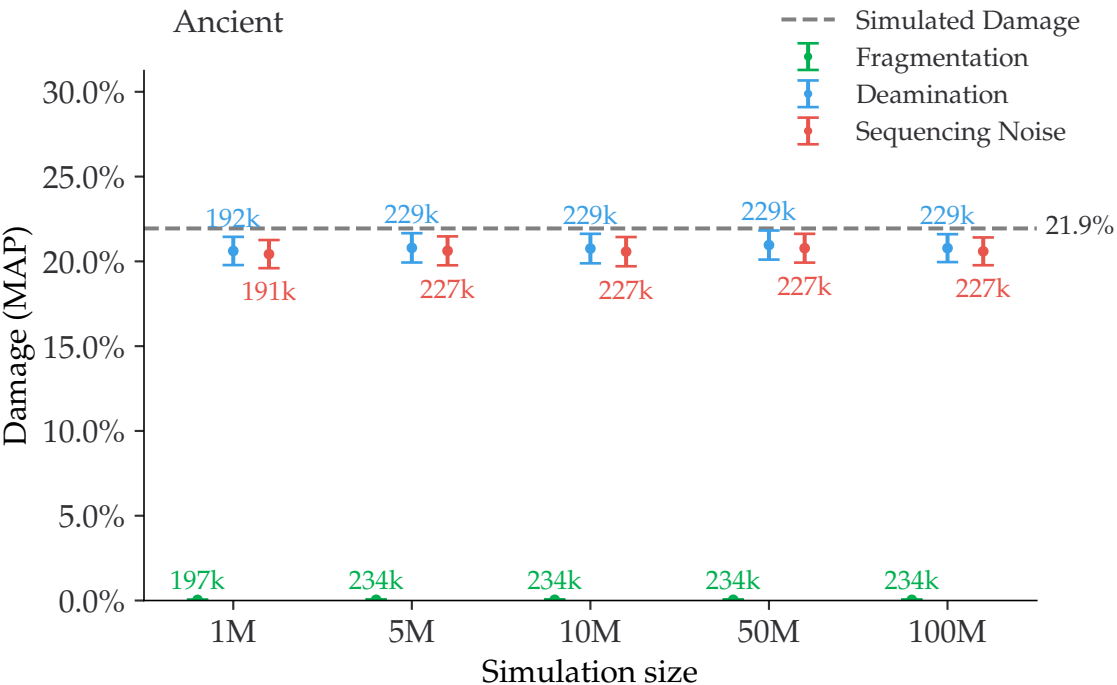


Cave-102

Tax ID: 122557, s\_\_Desulfobulbus oralis

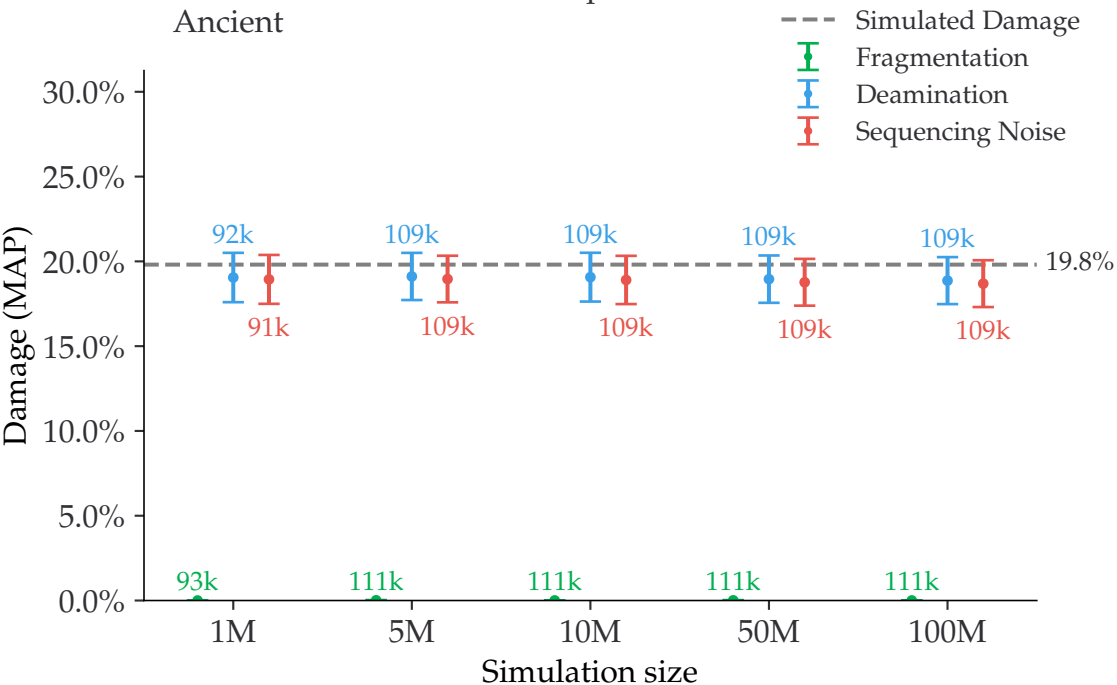
Ancient



Cave-102

Tax ID: 120170, s\_Flexilinea sp001717545

Ancient

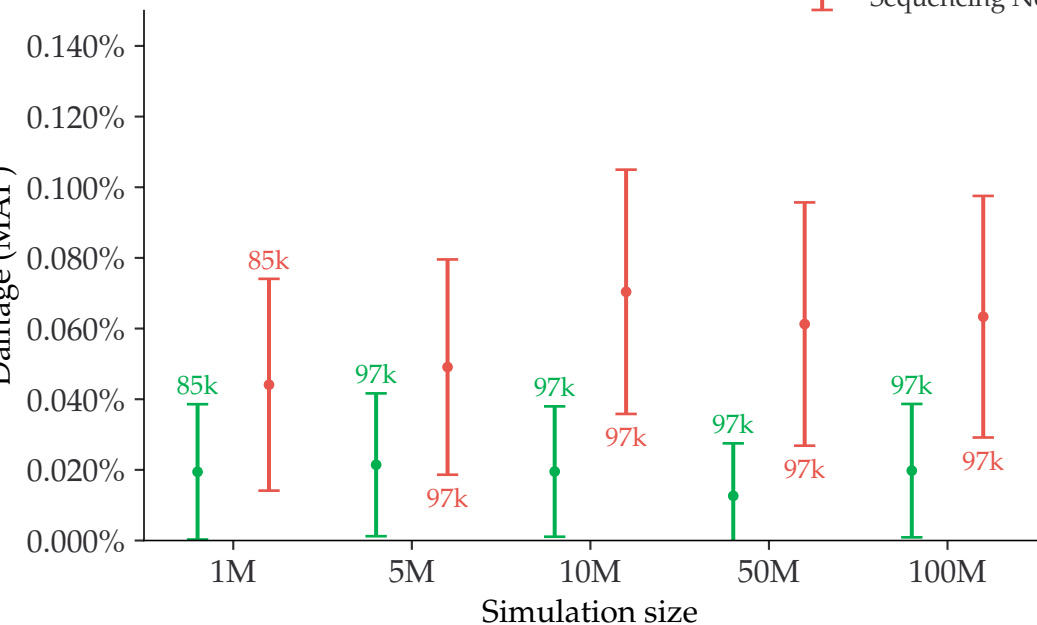


Cave-102

Tax ID: 81856, *s\_\_Acinetobacter johnsonii*

Non-ancient

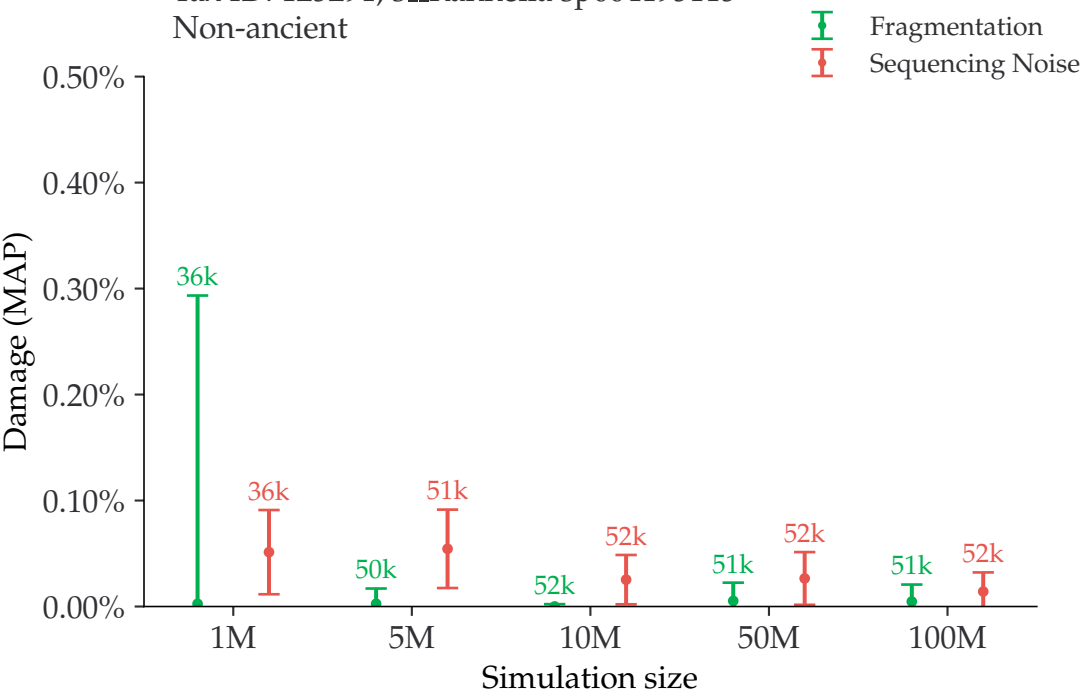
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 125291, s\_\_Rahnella sp004195115

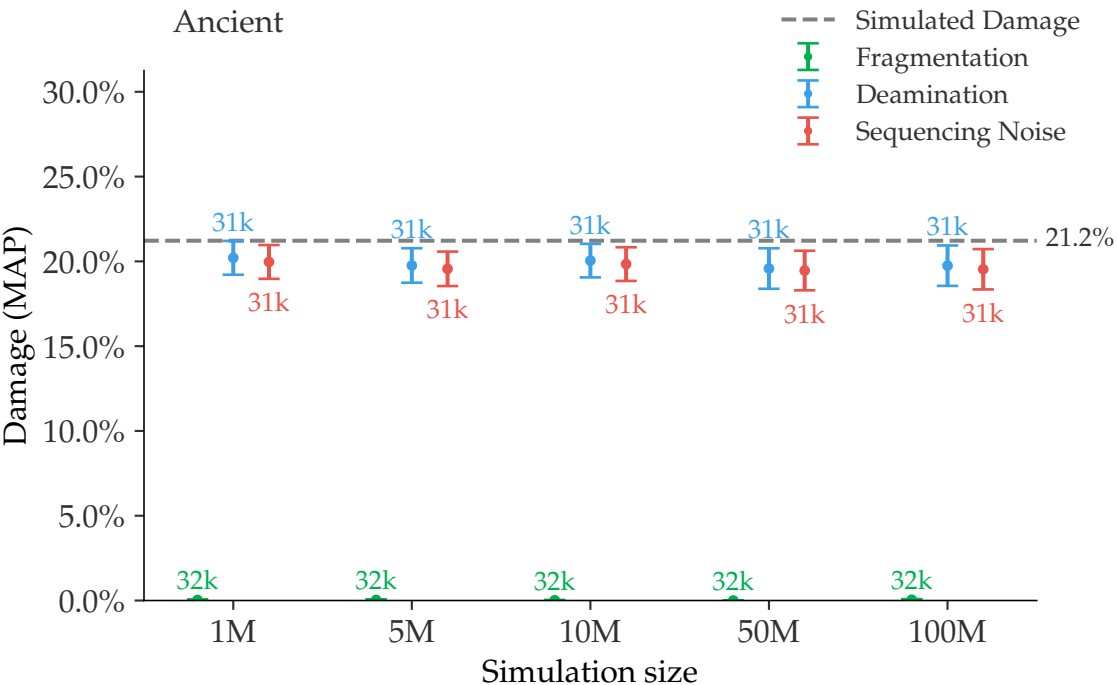
Non-ancient



Cave-102

Tax ID: 123923, s\_\_Eubacterium\_A minutum

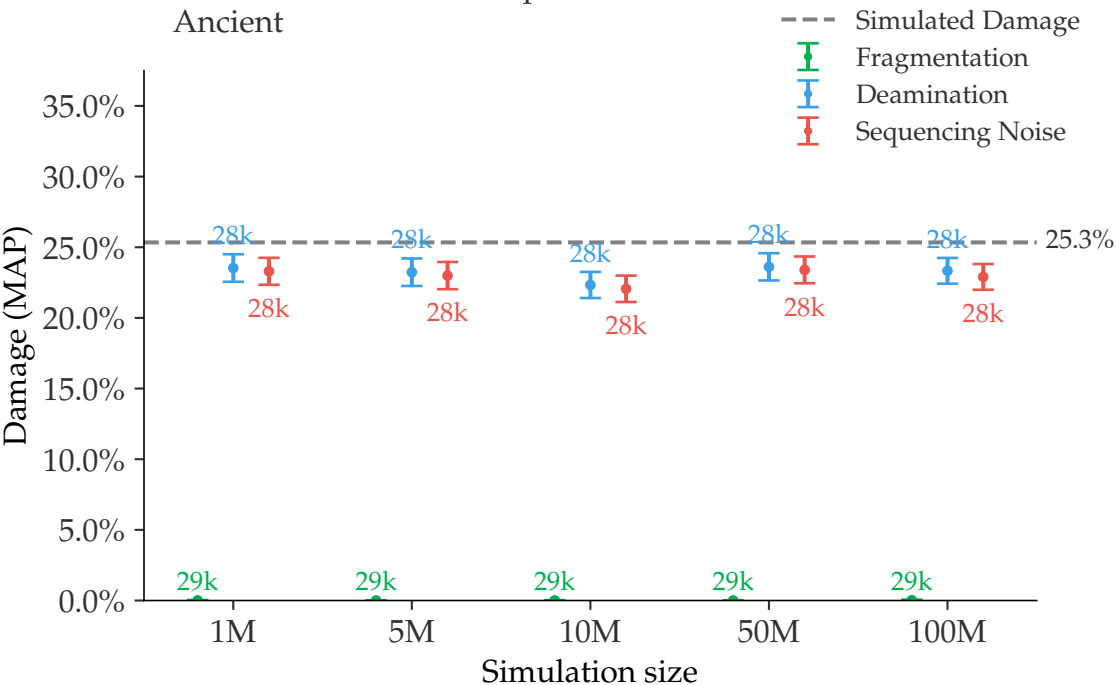
Ancient



Cave-102

Tax ID: 113697, s\_\_Lautropia mirabilis

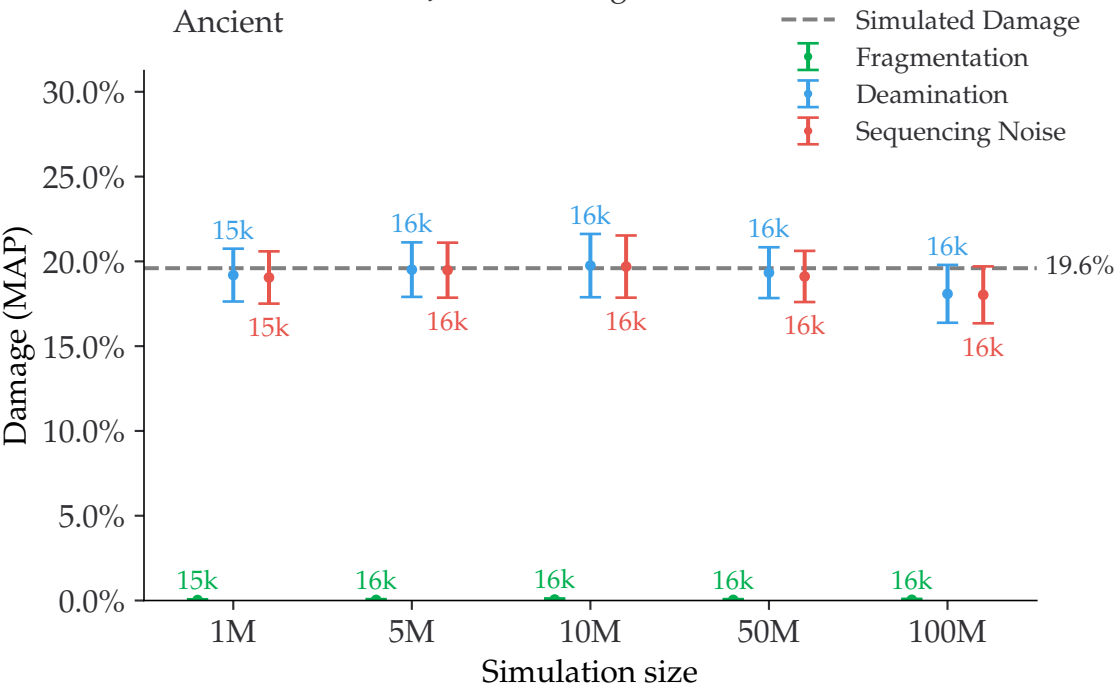
Ancient



Cave-102

Tax ID: 114024, s\_Johnsonella ignava

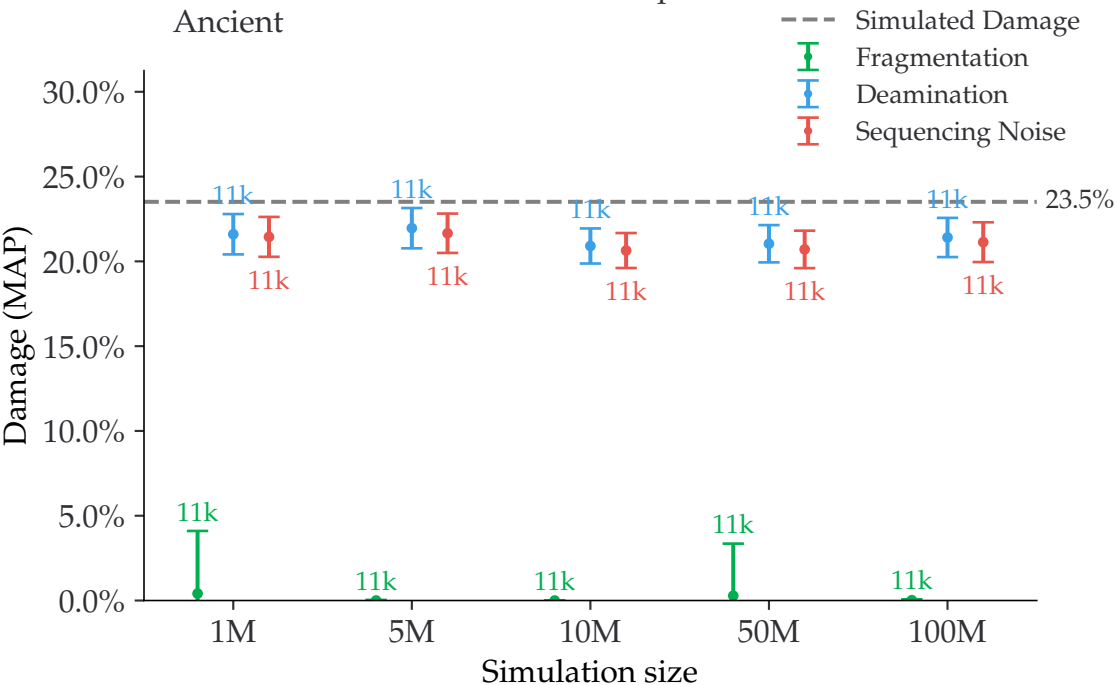
Ancient



Cave-102

Tax ID: 124695, s\_\_Fretibacterium sp003860125

Ancient





Cave-102

Tax ID: 116059, s\_\_Pseudomonas\_E azotoformans\_A

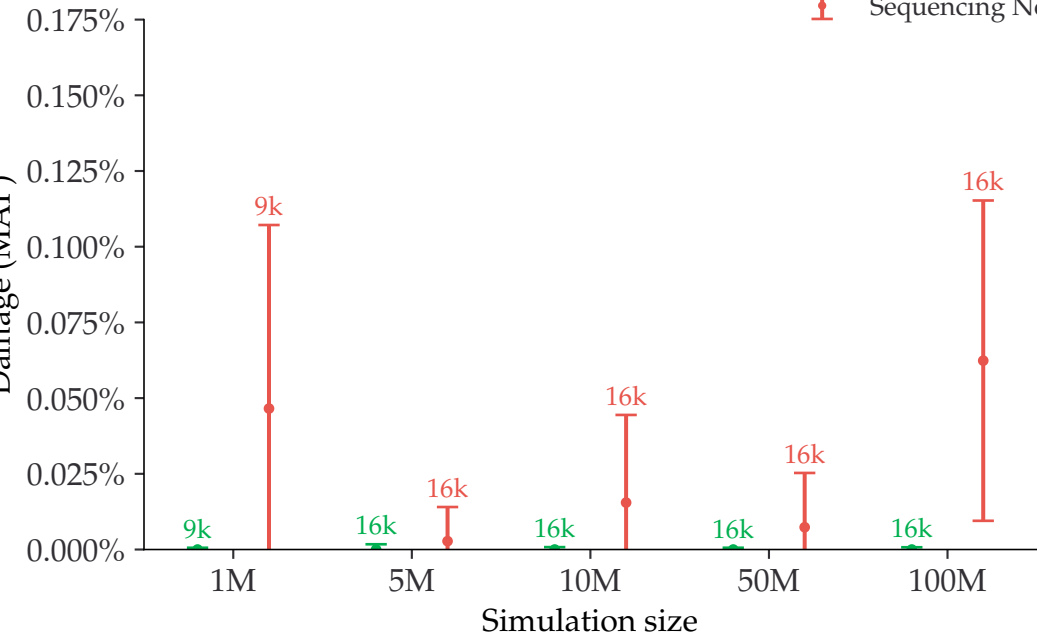
Non-ancient



Fragmentation



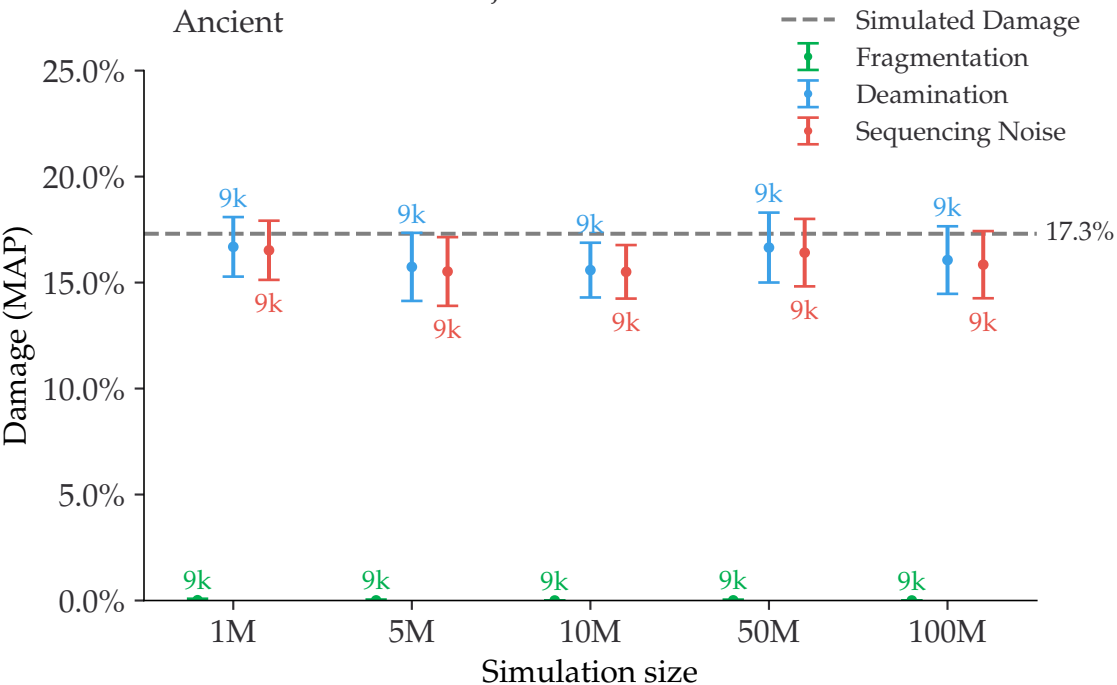
Sequencing Noise



Cave-102

Tax ID: 114952, s\_\_Pauljensenia cardiffensis

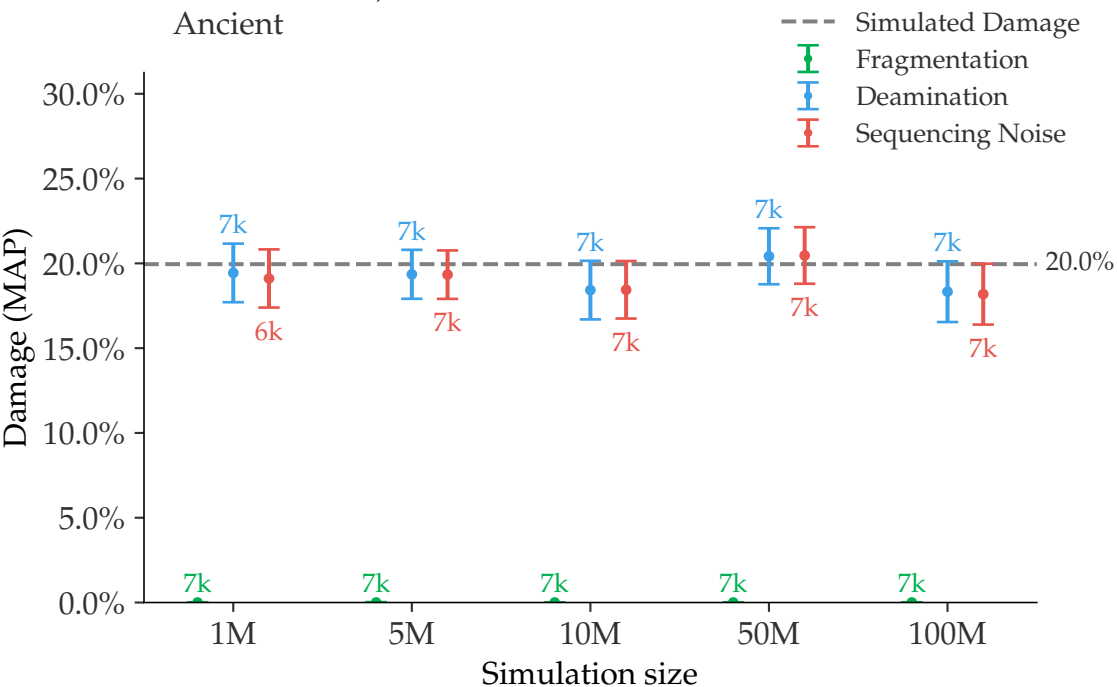
Ancient



Cave-102

Tax ID: 115917, s\_\_Rothia aeria

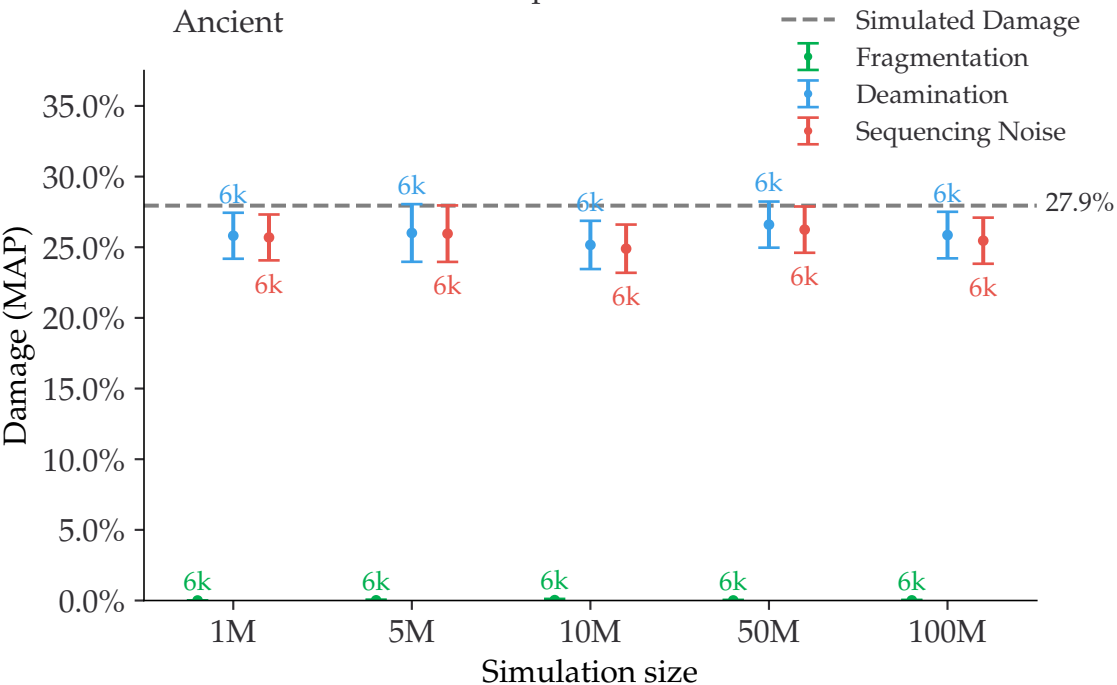
Ancient



Cave-102

Tax ID: 113487, s\_\_F0058 sp000163695

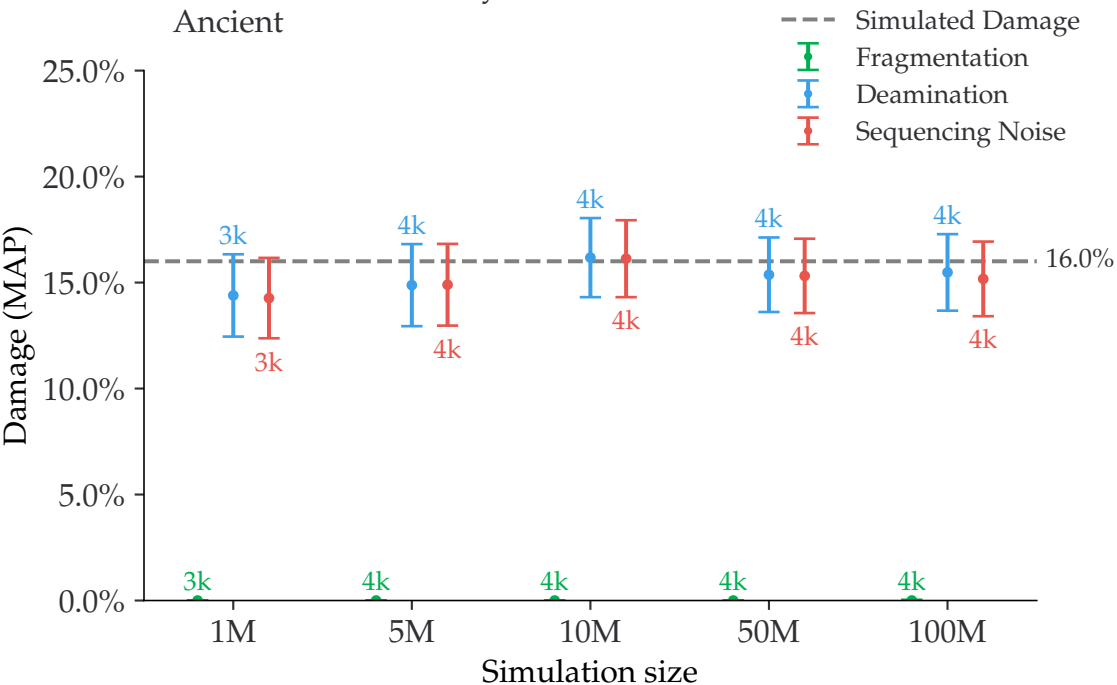
Ancient



Cave-102

Tax ID: 114691, s\_\_Corynebacterium durum

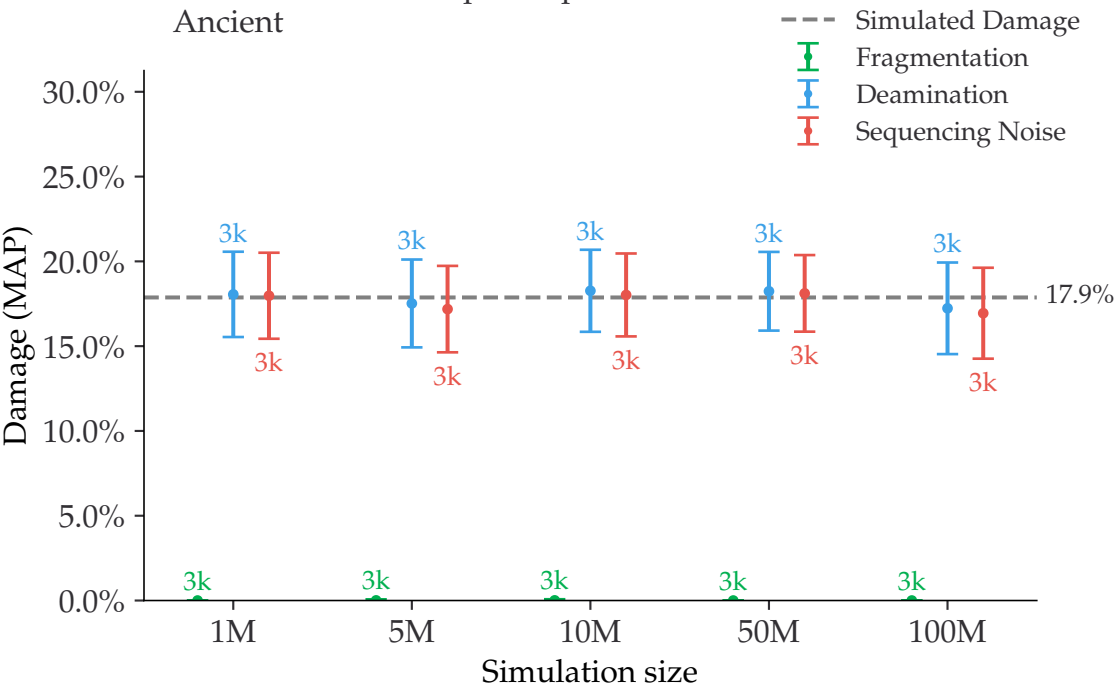
Ancient



Cave-102

Tax ID: 113315, s\_\_Peptostreptococcus stomatis

Ancient



Cave-102

Tax ID: 122305, s\_\_Janthinobacterium sp002878455

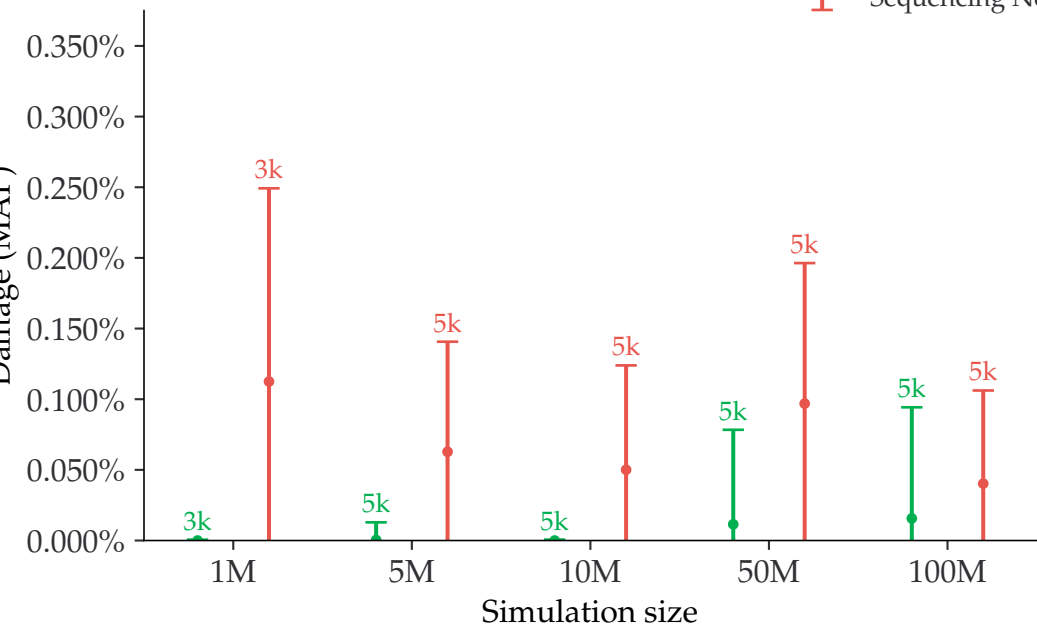
Non-ancient



Fragmentation



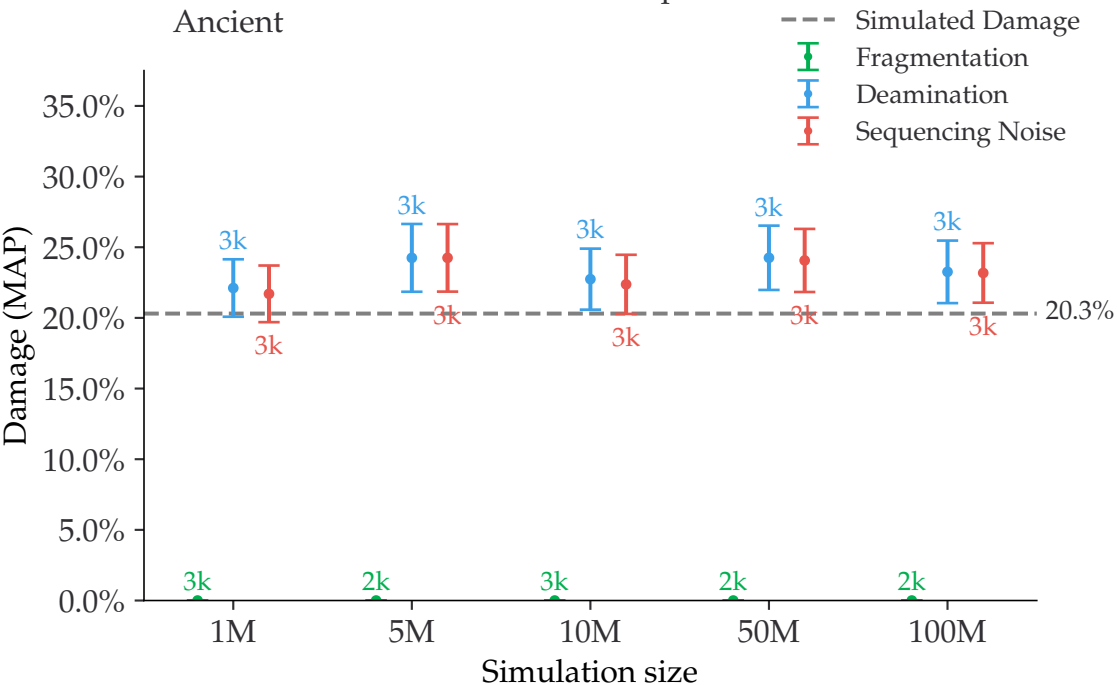
Sequencing Noise



Cave-102

Tax ID: 103738, s\_\_Saccharimonas sp013333845

Ancient

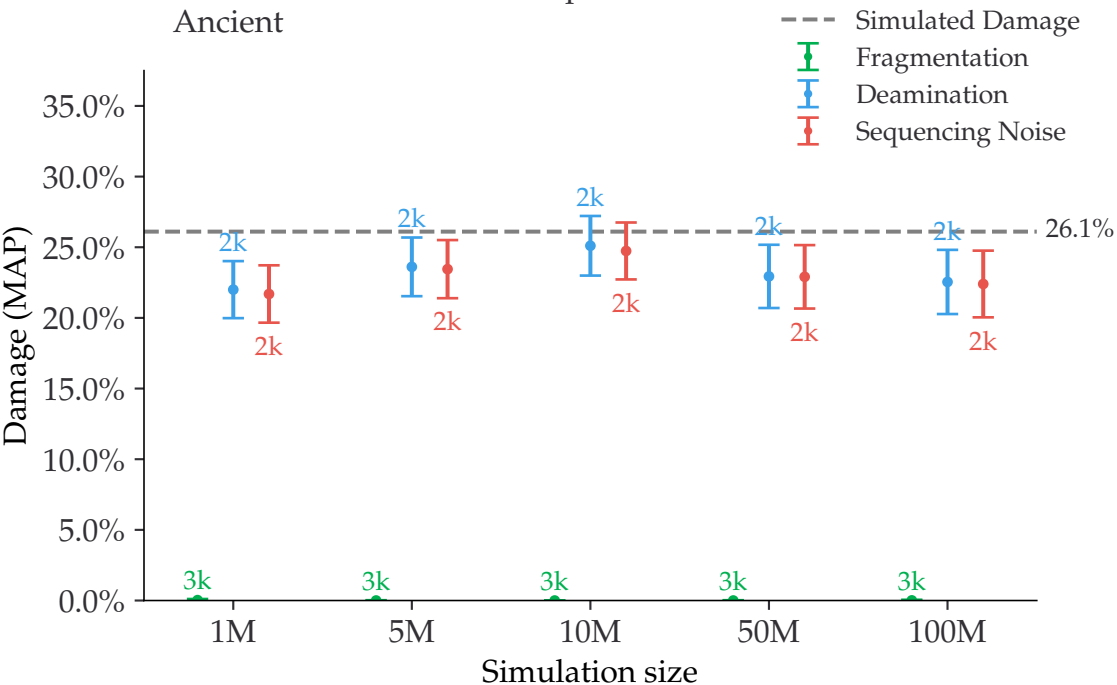




Cave-102

Tax ID: 118244, s\_\_Ottowia sp001262075

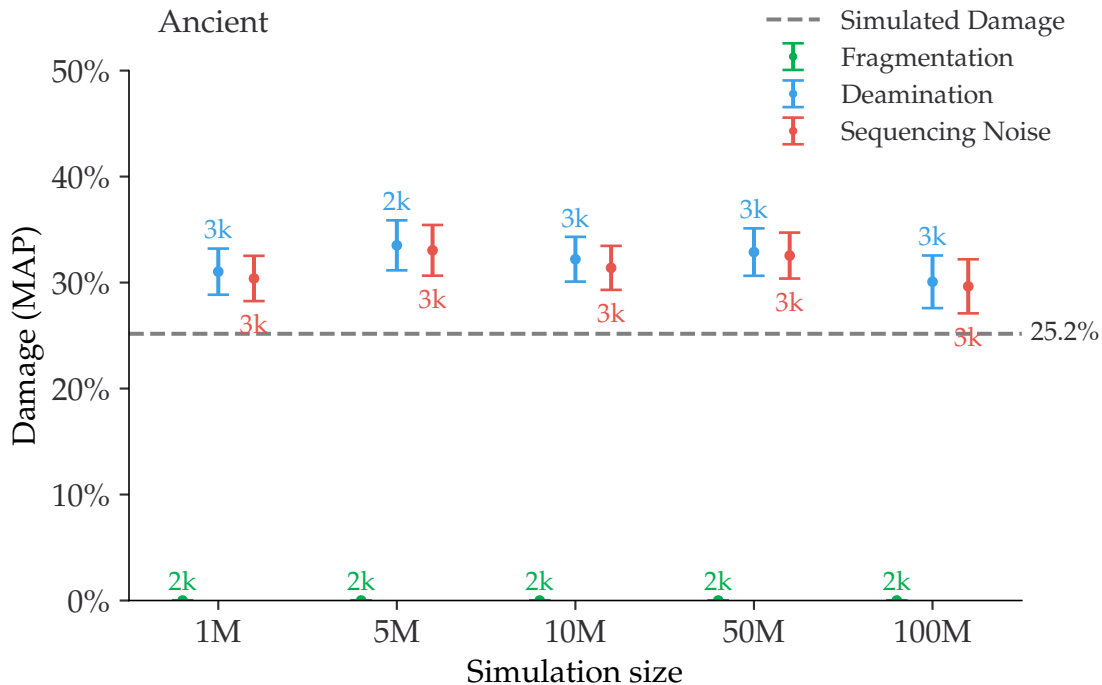
Ancient



Cave-102

Tax ID: 120312, s\_\_Neisseria sicca\_A

Ancient



Cave-102

Tax ID: 127947, s\_\_Pseudomonas\_B oryzihabitans\_D

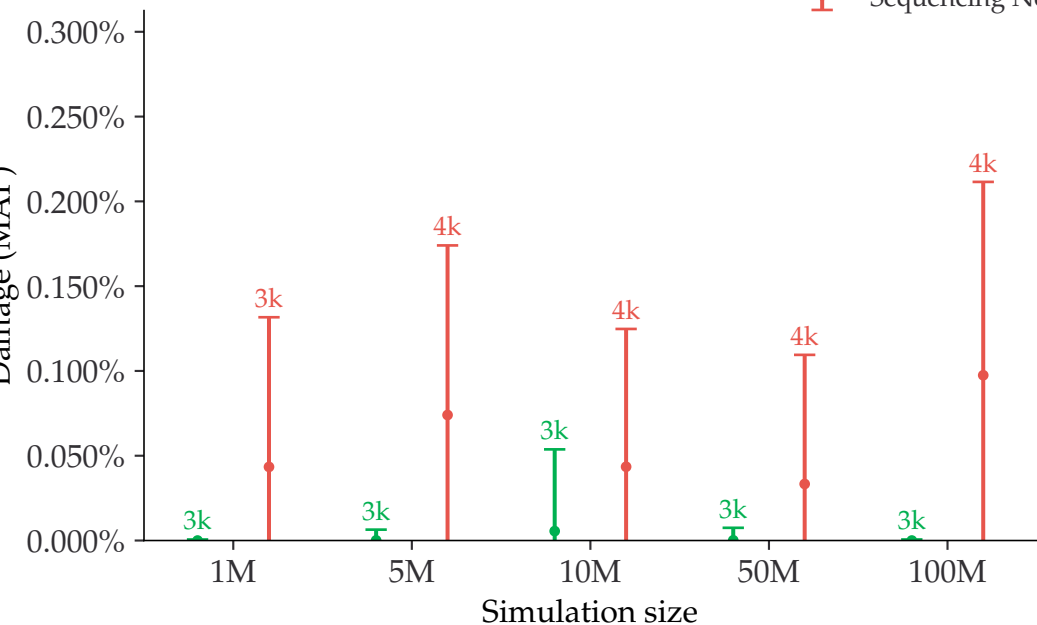
Non-ancient



Fragmentation



Sequencing Noise

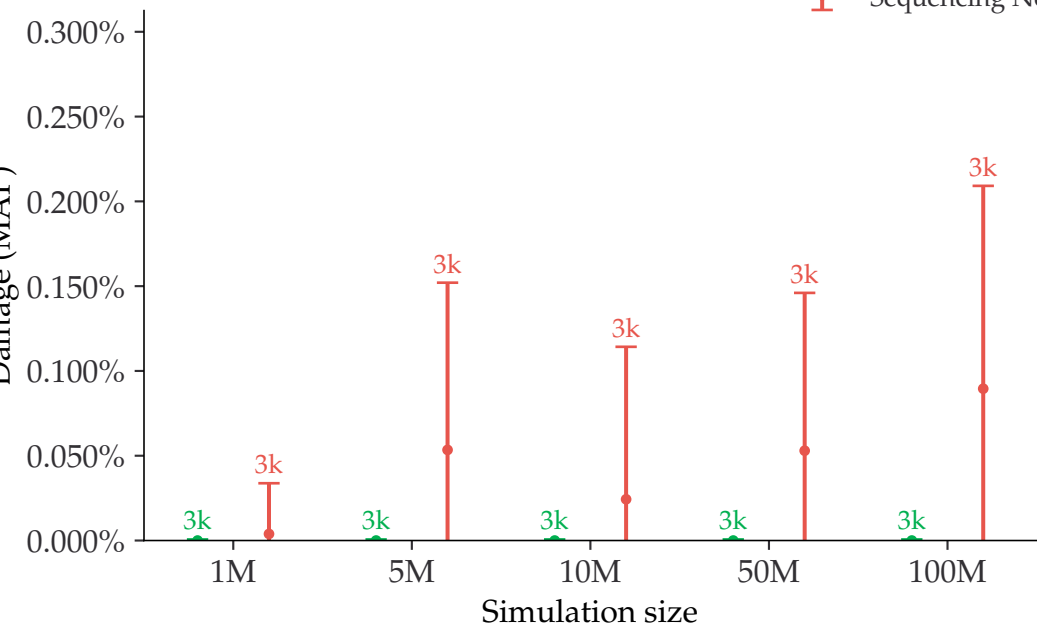


Cave-102

Tax ID: 79804, *s\_\_Cutibacterium acnes*

Non-ancient

Fragmentation  
Sequencing Noise

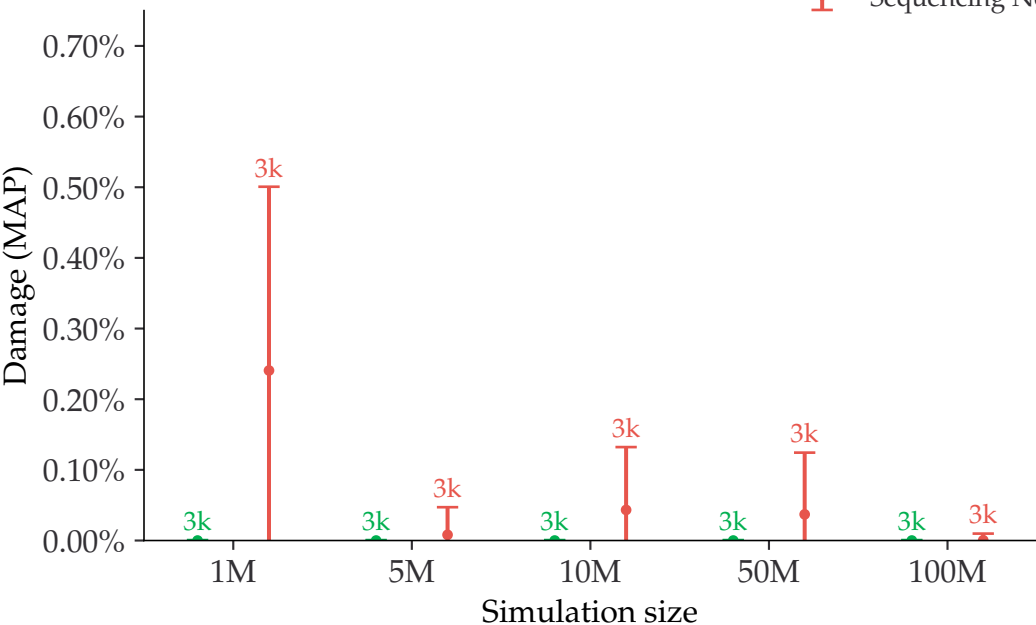


Cave-102

Tax ID: 116471, s\_\_Pantoea agglomerans

Non-ancient

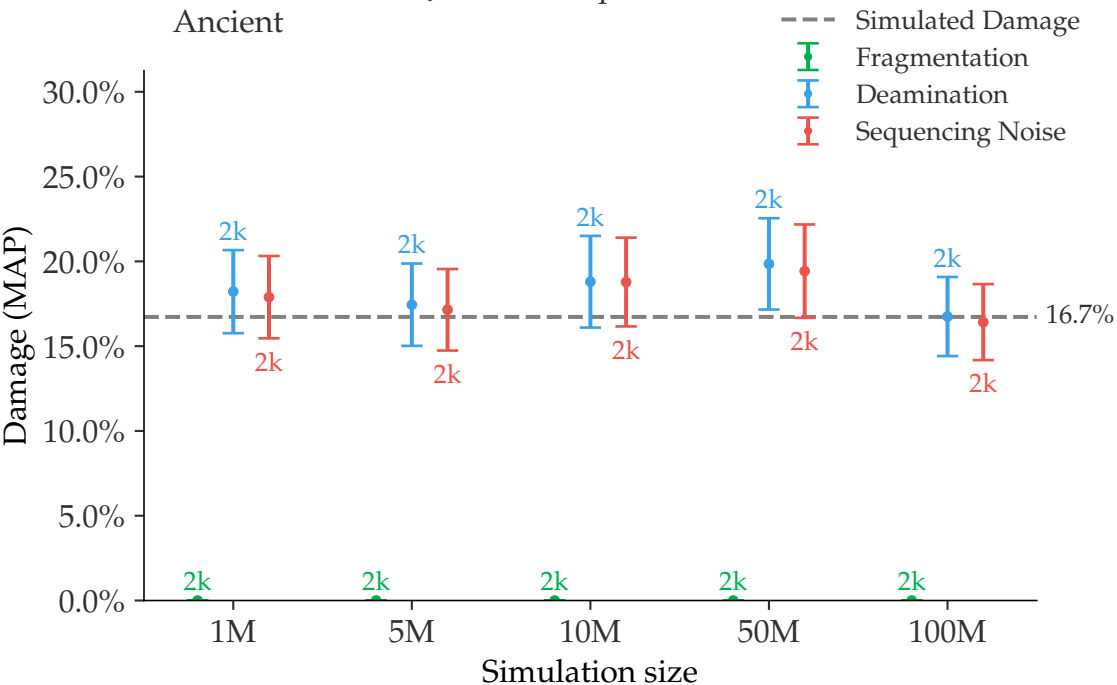
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 103739, s\_JABCPE02 sp013333875

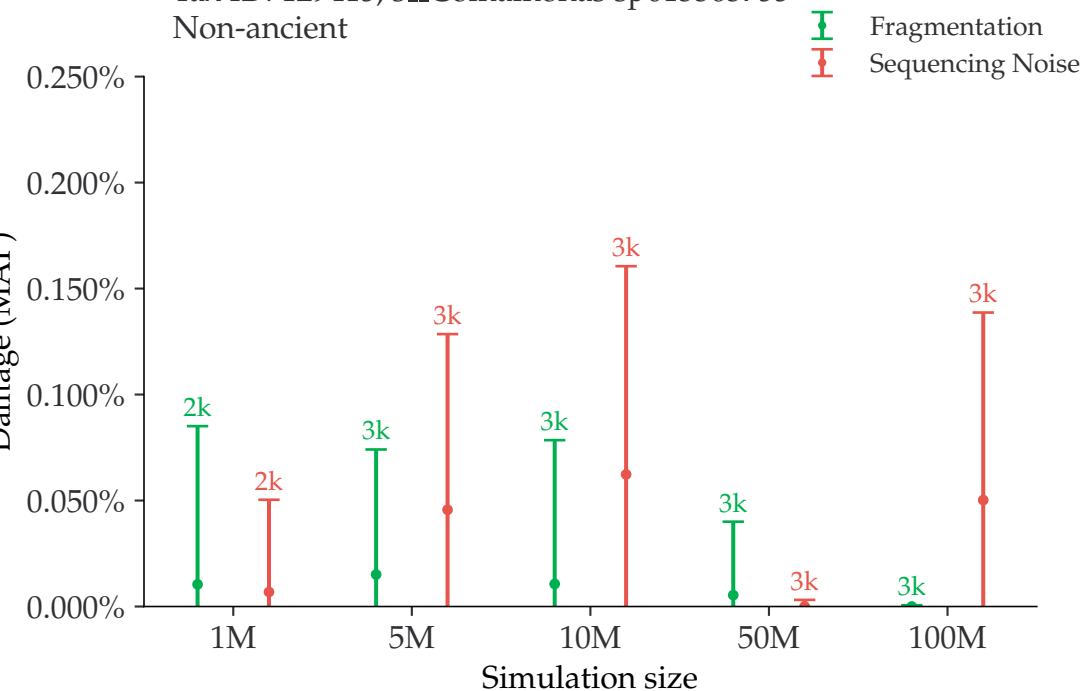
Ancient



Cave-102

Tax ID: 129415, s\_\_Comamonas sp013363755

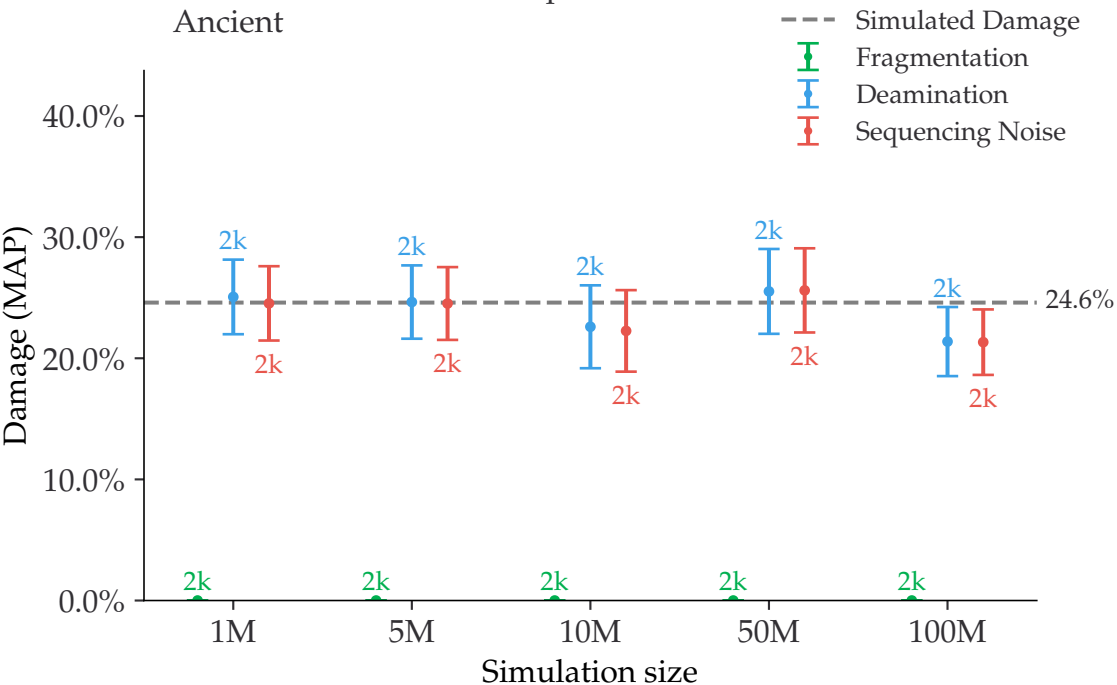
Non-ancient



Cave-102

Tax ID: 115828, s\_\_W5053 sp000467935

Ancient

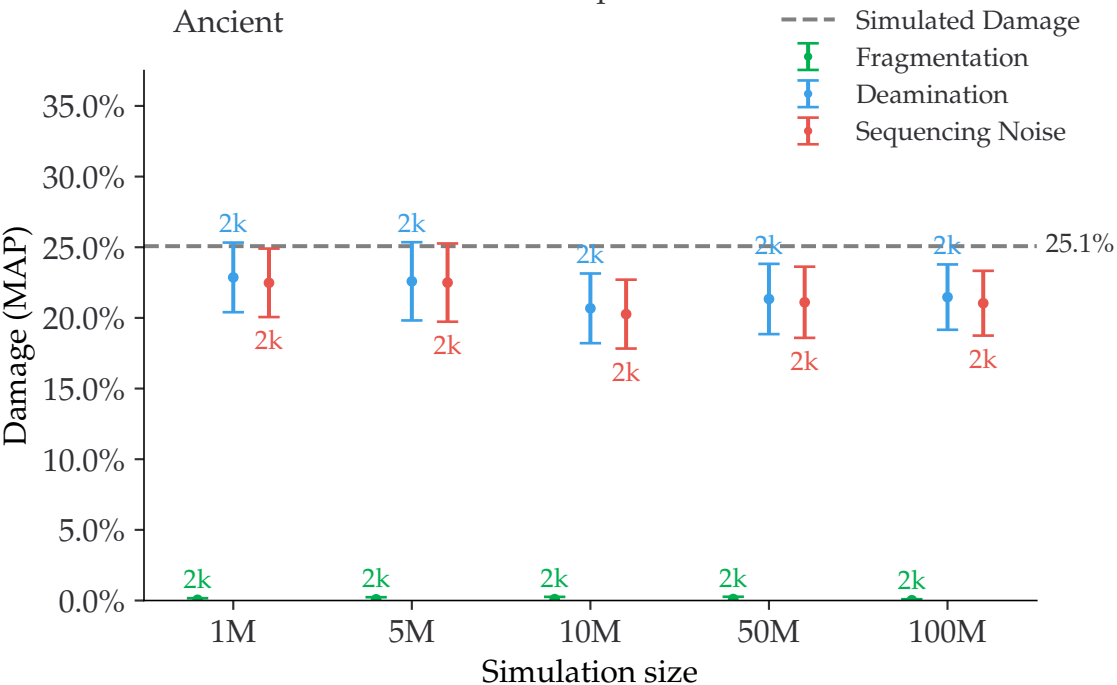




Cave-102

Tax ID: 120169, s\_\_Tannerella sp003033925

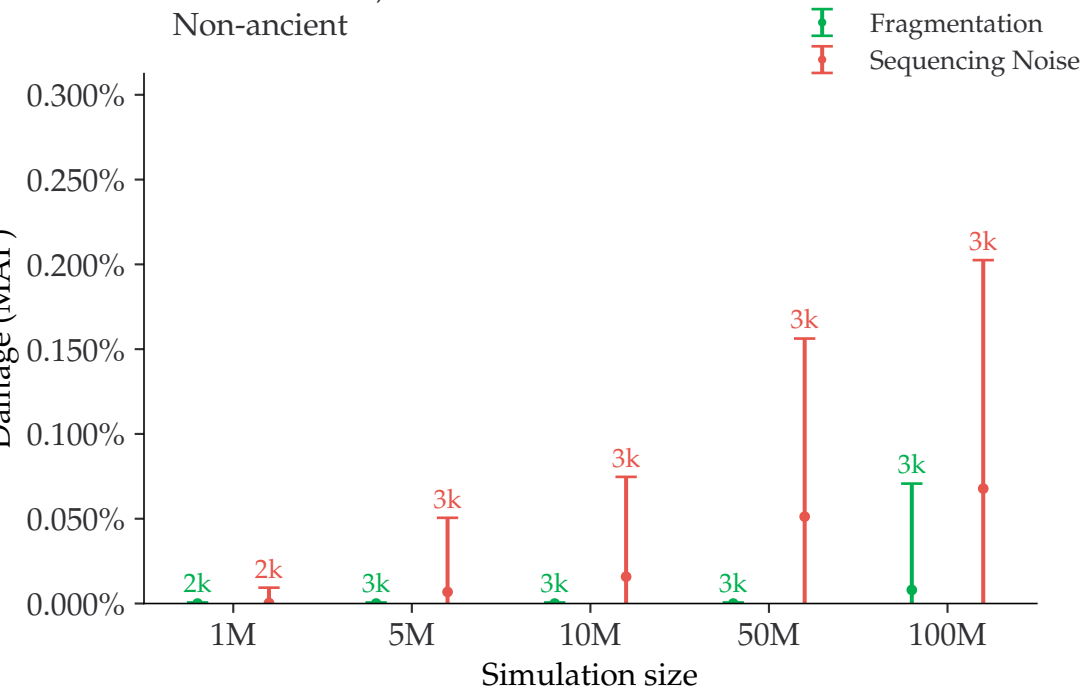
Ancient



Cave-102

Tax ID: 120998, s\_\_Rouxiella badensis

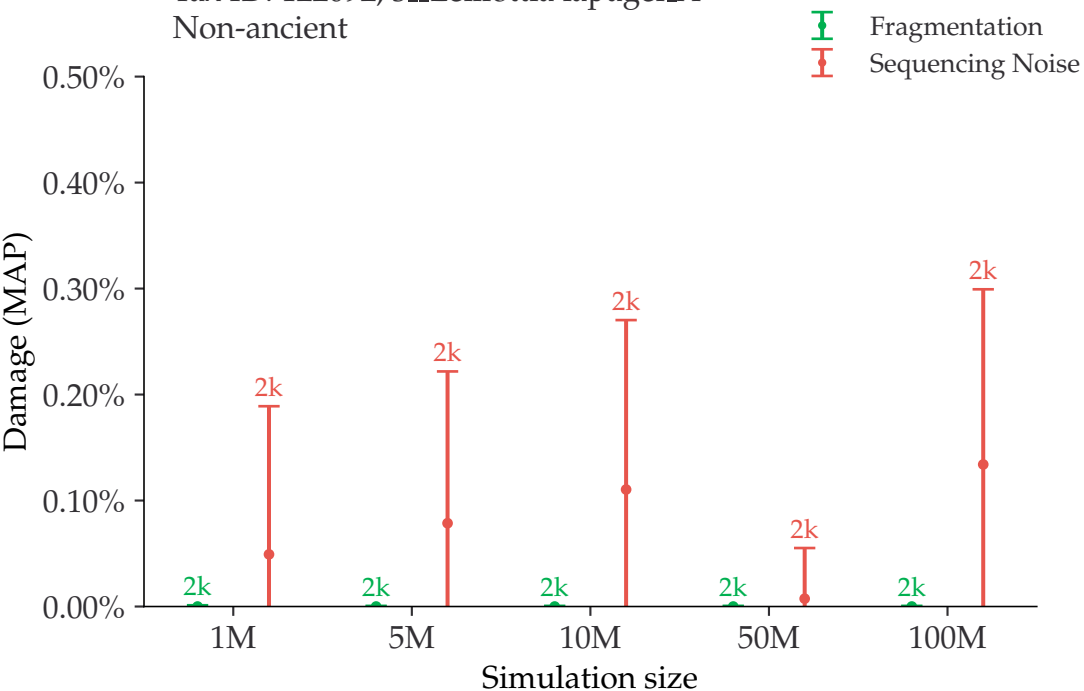
Non-ancient



Cave-102

Tax ID: 122092, s\_\_Lelliottia lapagei\_A

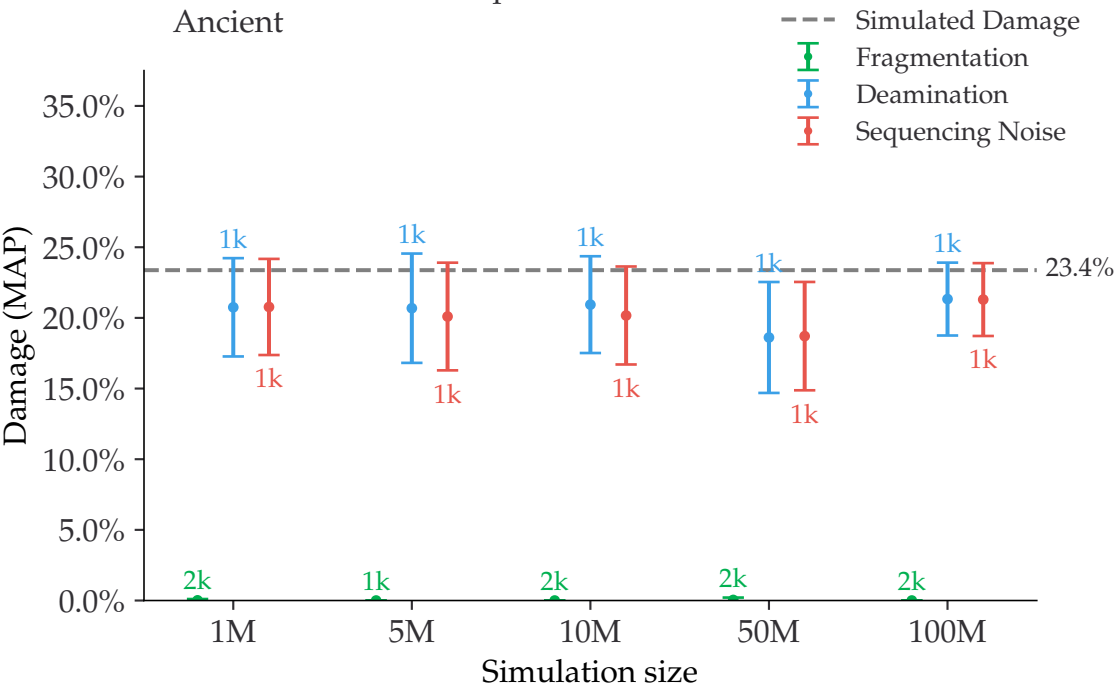
Non-ancient



Cave-102

Tax ID: 119876, s\_H1 sp001653155

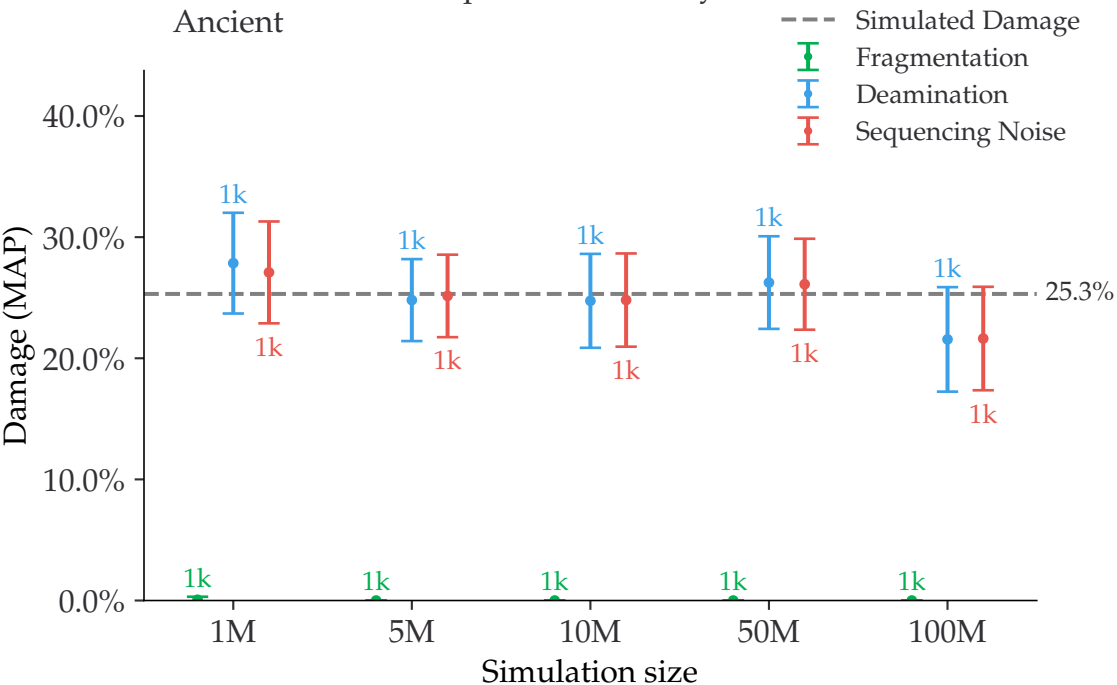
Ancient



Cave-102

Tax ID: 105583, s\_\_*Peptoanaerobacter yurii*

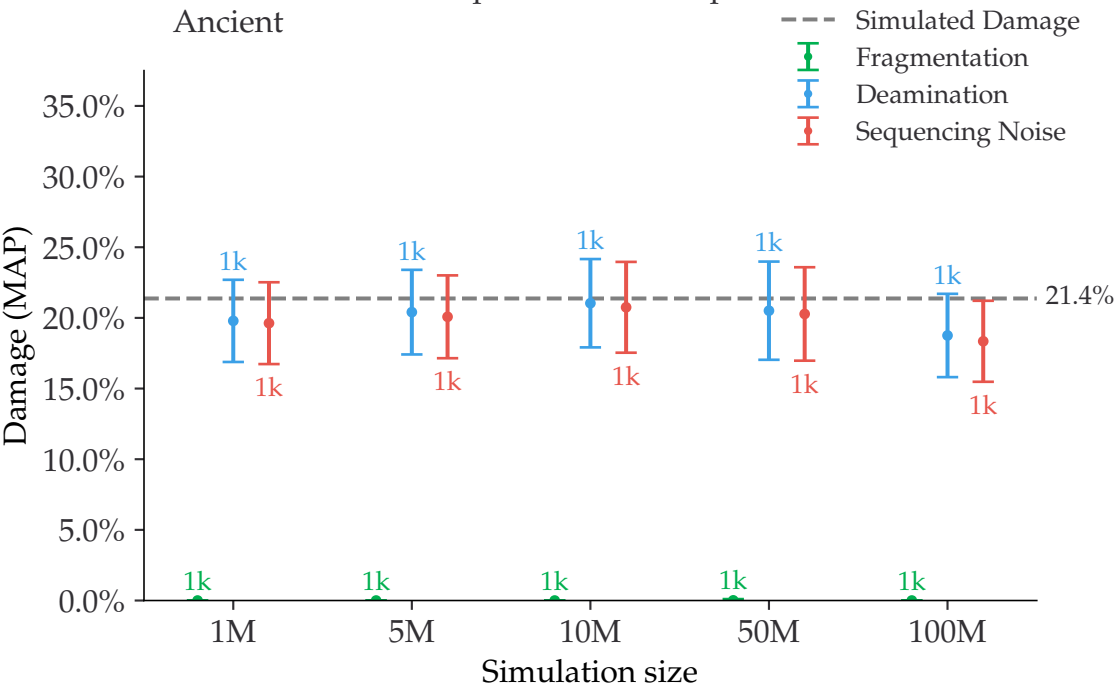
Ancient



Cave-102

Tax ID: 115361, s\_\_Treponema\_C maltophilum

Ancient

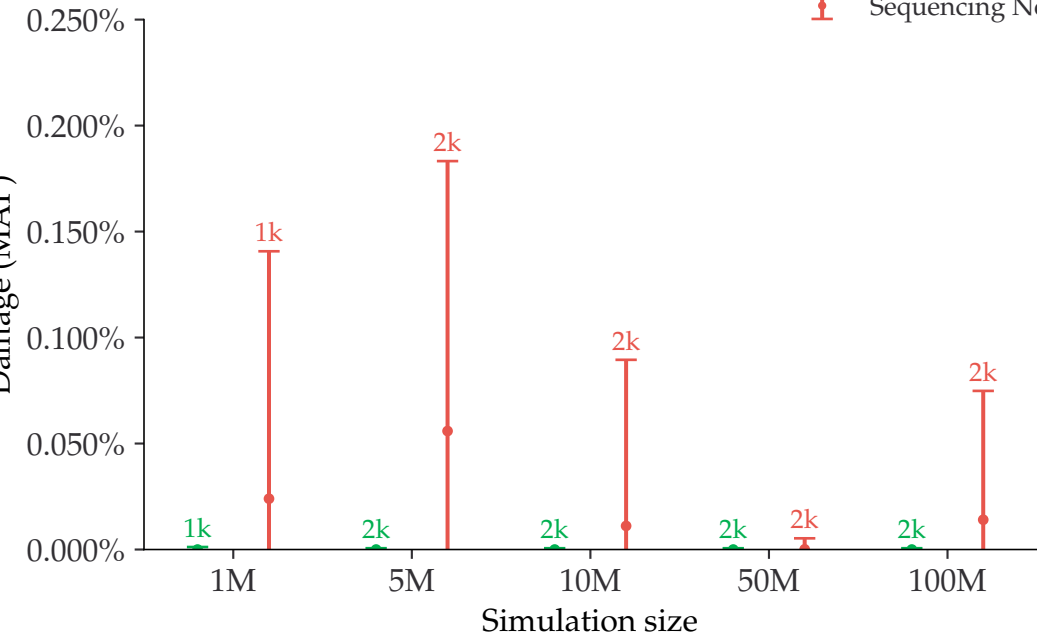


Cave-102

Tax ID: 131837, s\_Klebsiella\_A grimontii

Non-ancient

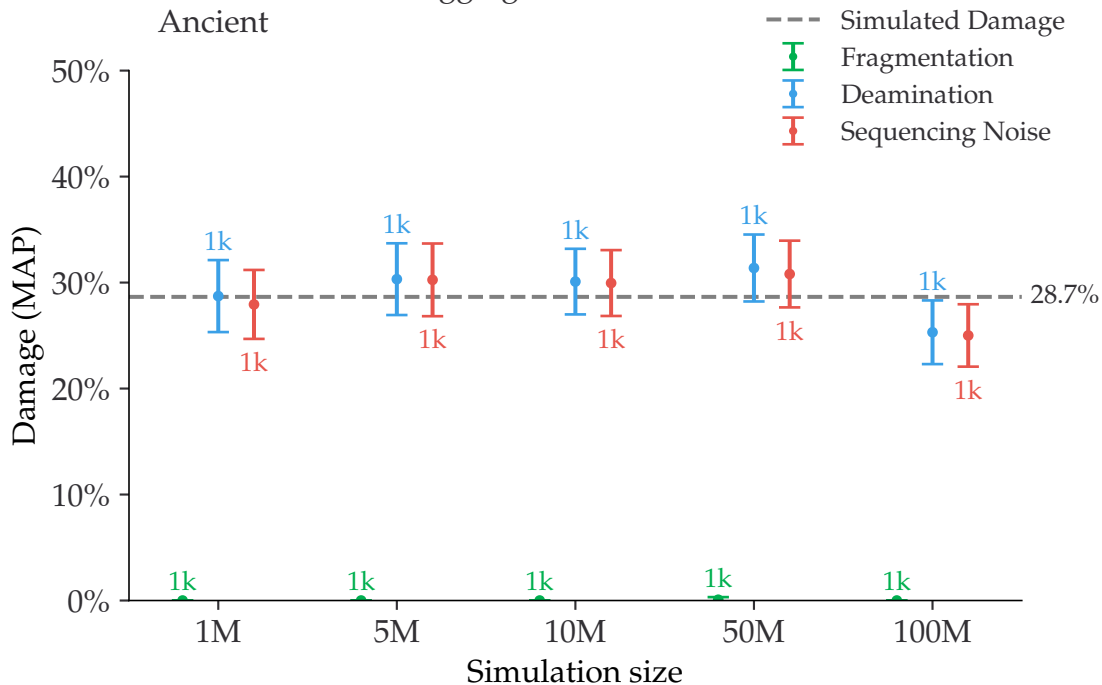
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 123124, s\_\_Aggregatibacter kilianii

Ancient

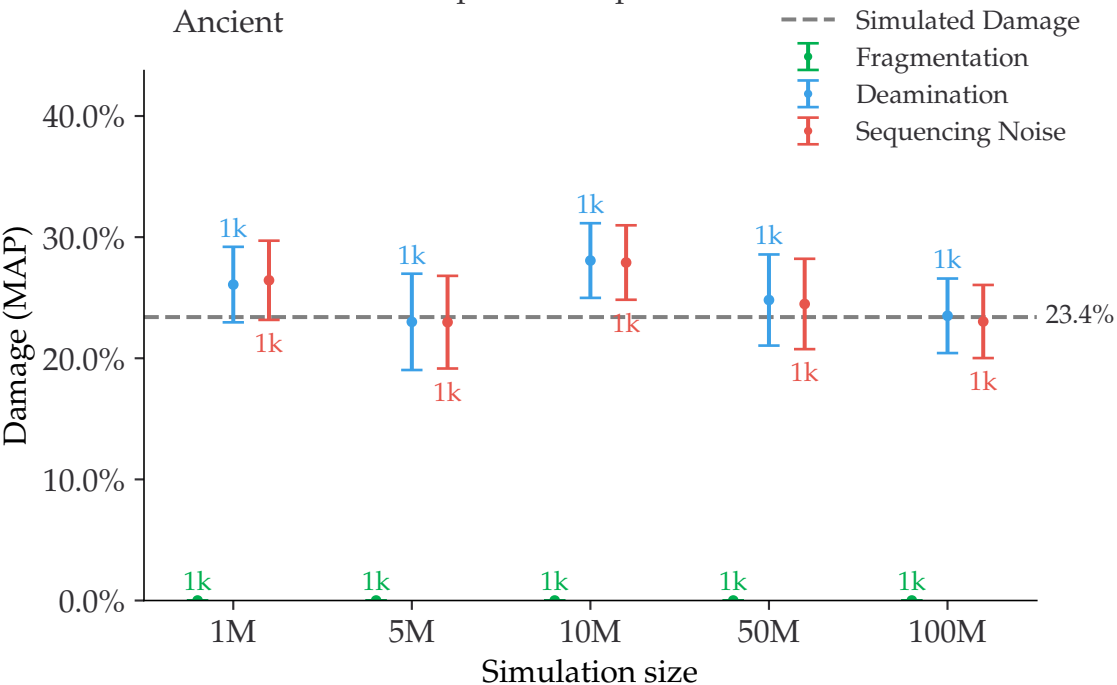




Cave-102

Tax ID: 72057, s\_\_Treponema\_D paredis

Ancient

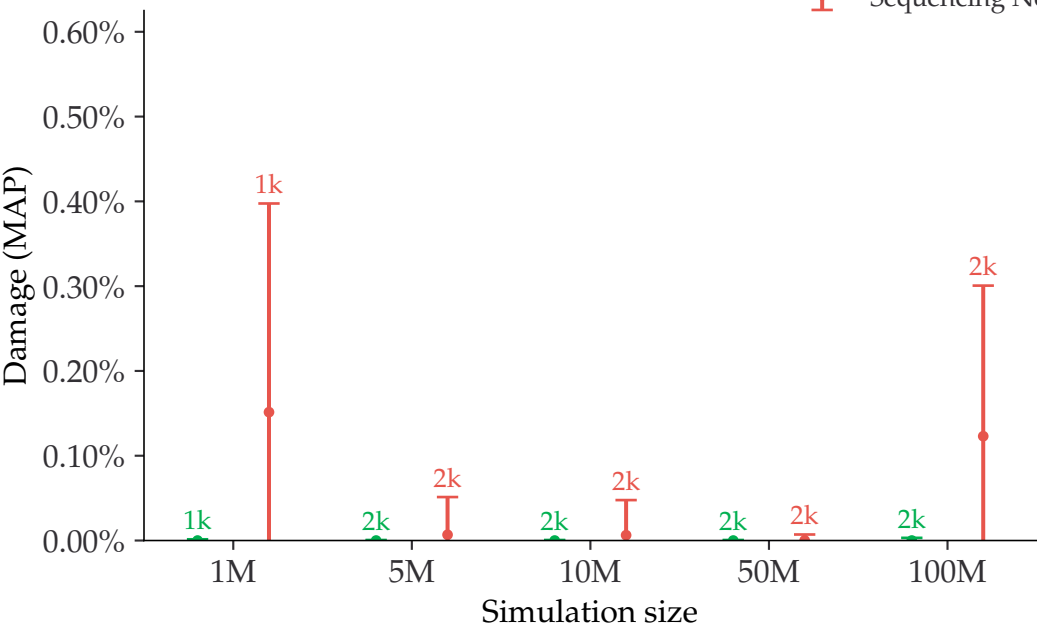


Cave-102

Tax ID: 128573, s\_\_Pseudaminobacter camelthorni

Non-ancient

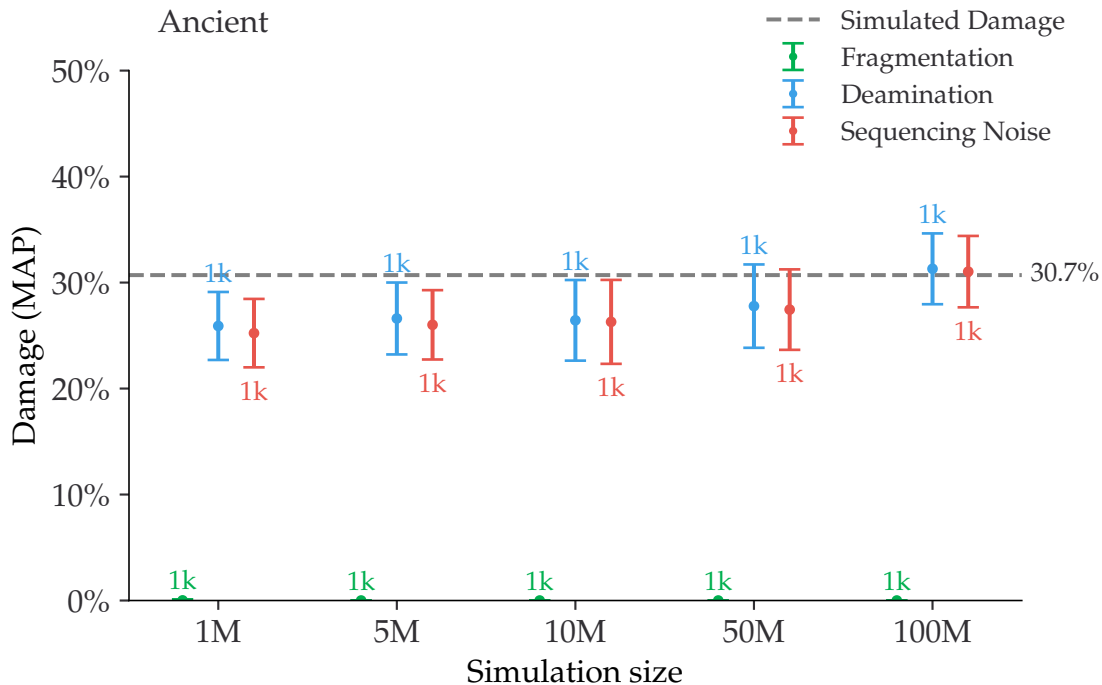
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 113485, s\_\_Prevotella loescheii

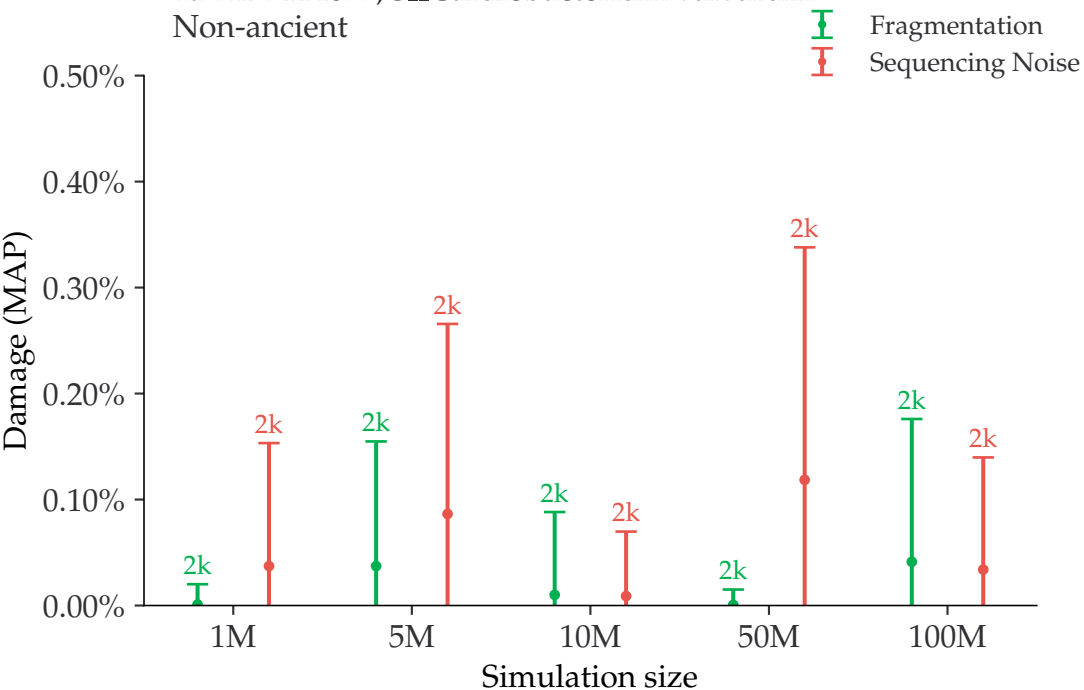
Ancient



Cave-102

Tax ID: 114077, s\_\_*Cardiobacterium valvarum*

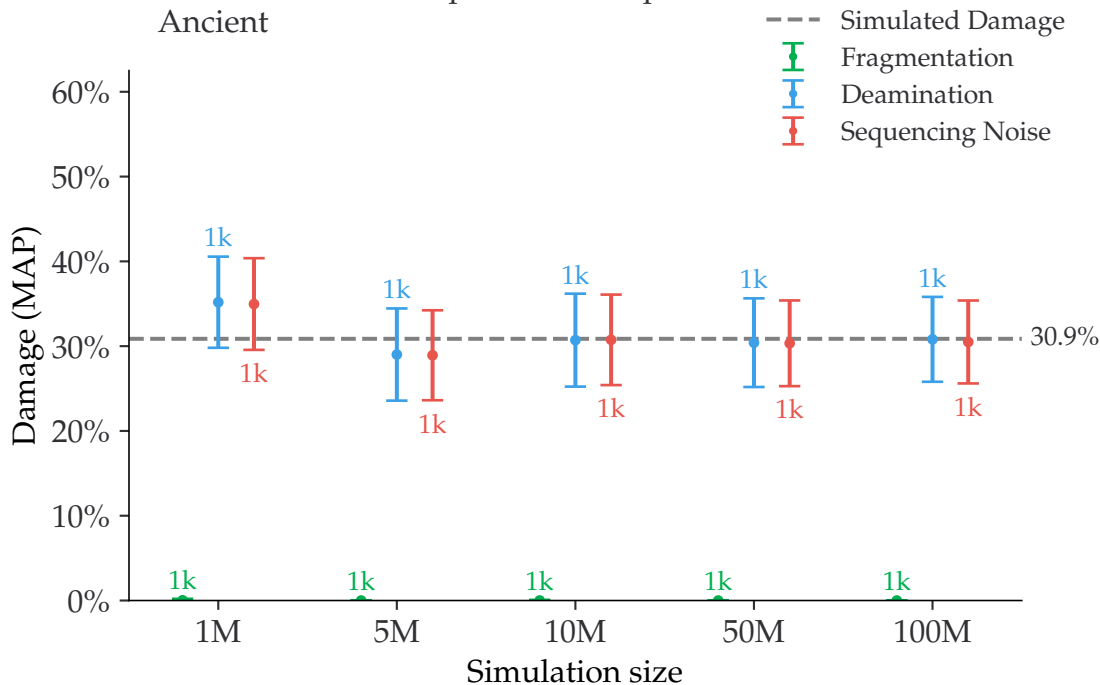
Non-ancient



Cave-102

Tax ID: 118296, s\_\_Leptotrichia\_A sp001274535

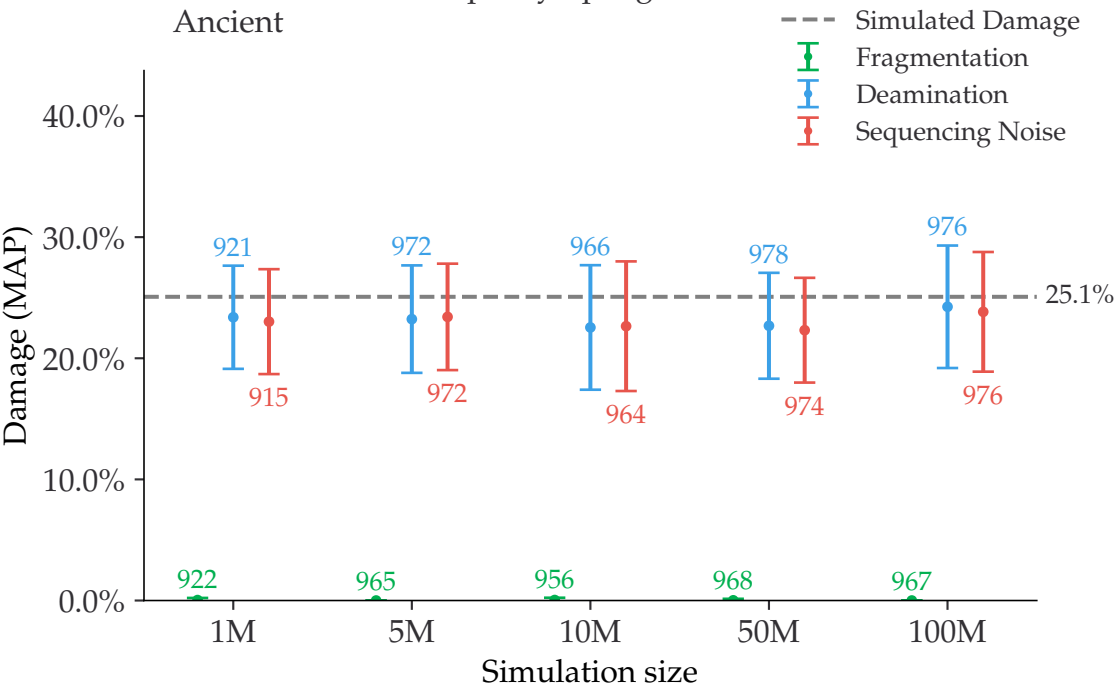
Ancient



Cave-102

Tax ID: 113128, s\_\_Capnocytophaga ochracea

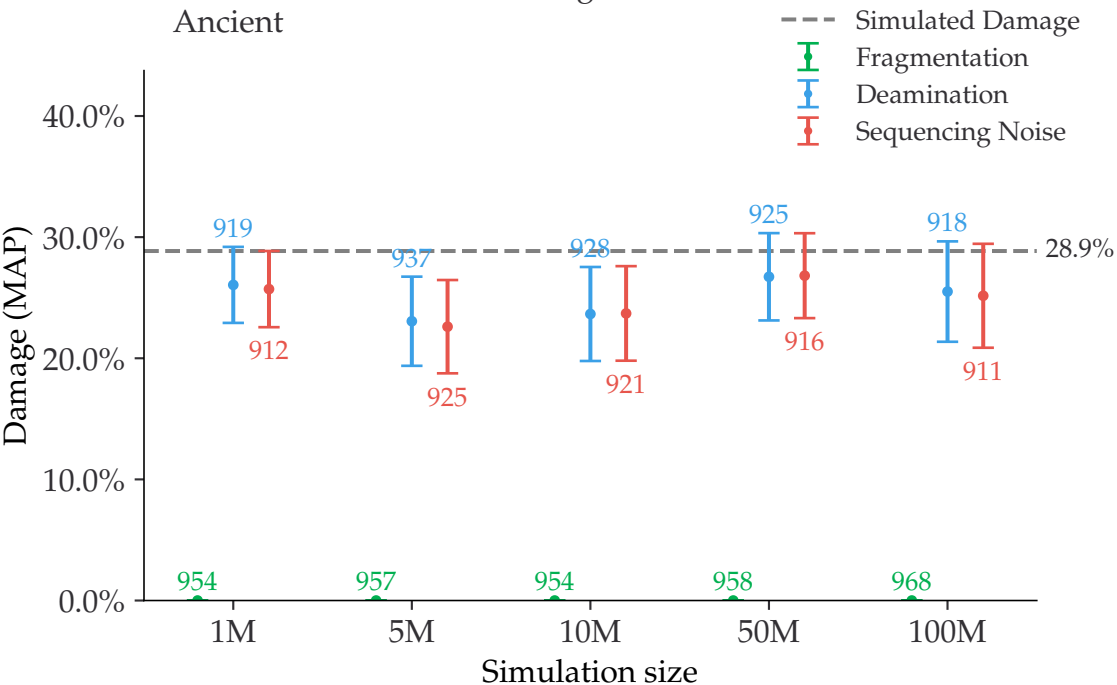
Ancient



Cave-102

Tax ID: 113481, s\_\_*Slackia exigua*

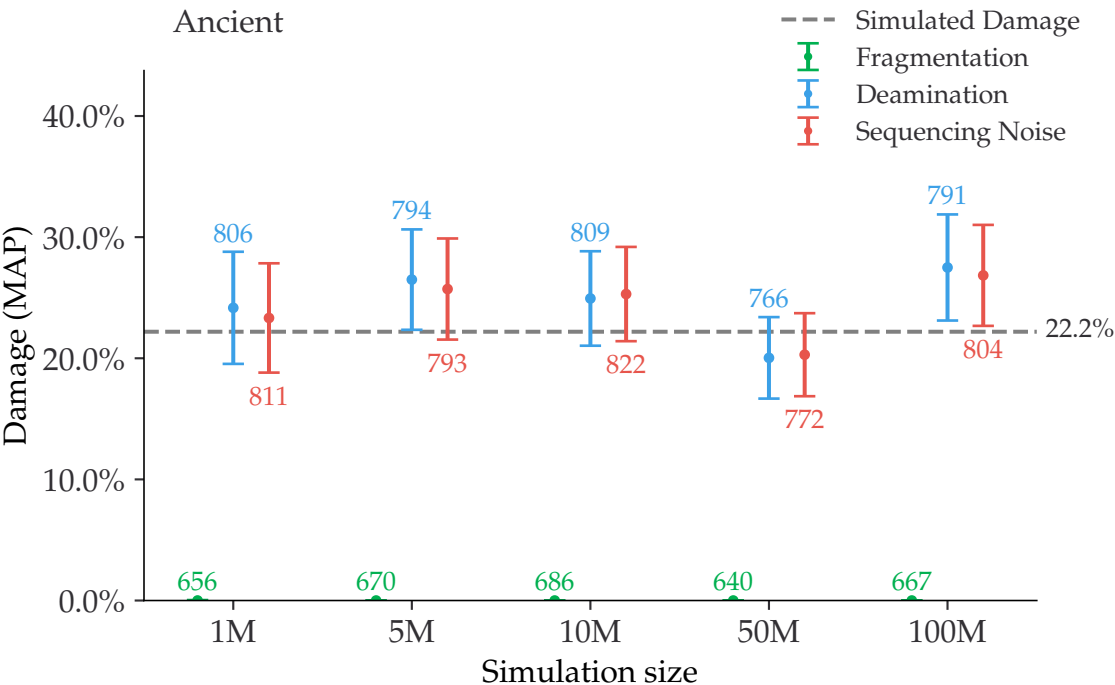
Ancient



Cave-102

Tax ID: 119831, s\_\_Eikenella corrodens

Ancient

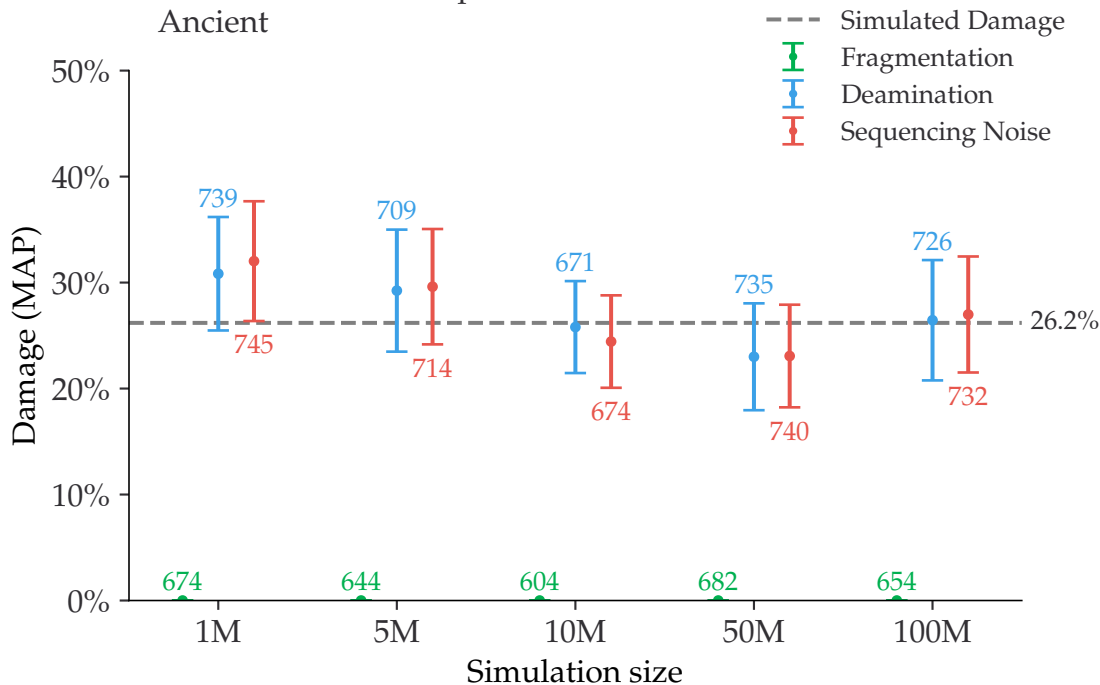




Cave-102

Tax ID: 112825, s\_\_Treponema\_B denticola

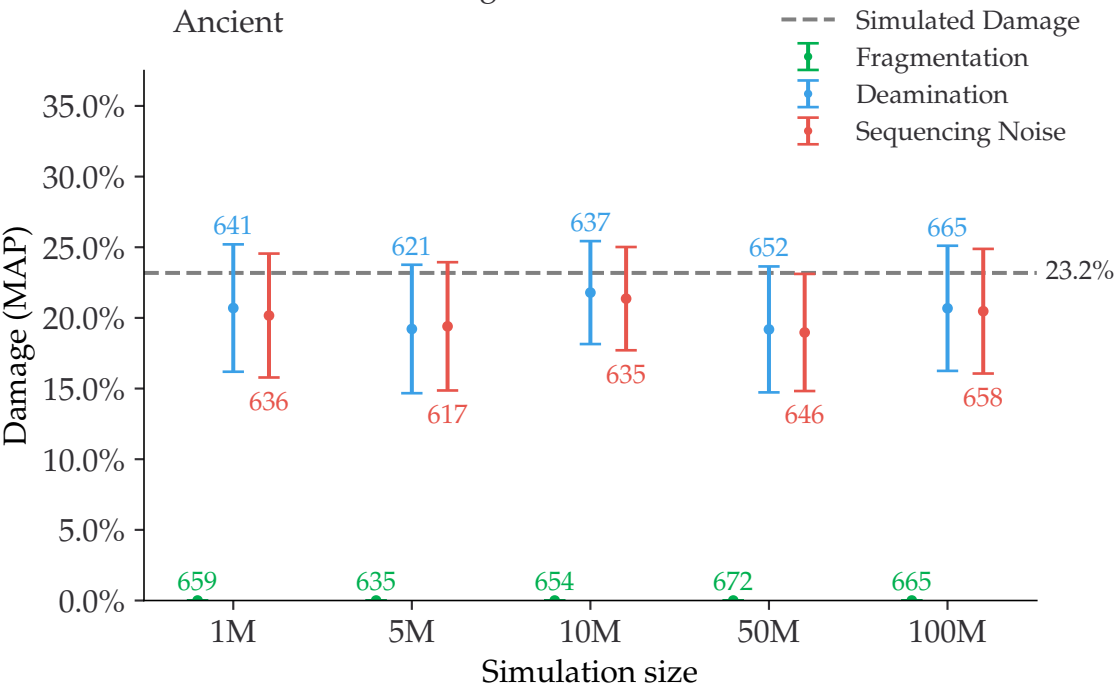
Ancient



Cave-102

Tax ID: 113738, s\_Kingella\_A denitrificans

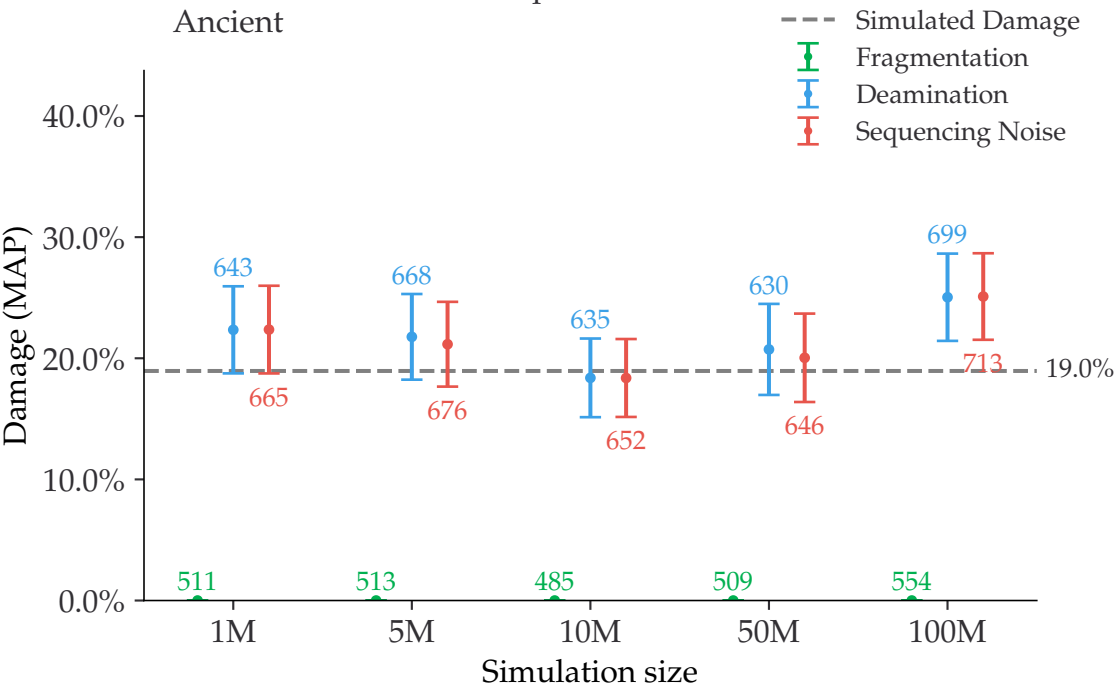
Ancient



Cave-102

Tax ID: 103732, s\_\_TM7x sp013333695

Ancient



Cave-102

Tax ID: 128149, s\_\_Duganella sp009857495

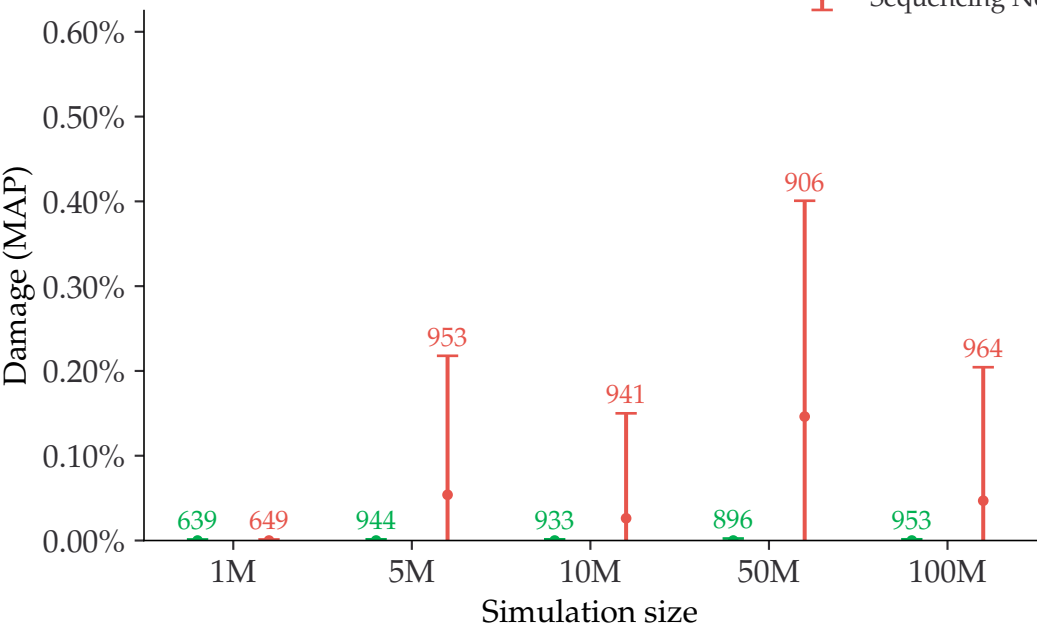
Non-ancient



Fragmentation



Sequencing Noise



Cave-102

Tax ID: 123799, s\_\_Epilithonimonas hispanica

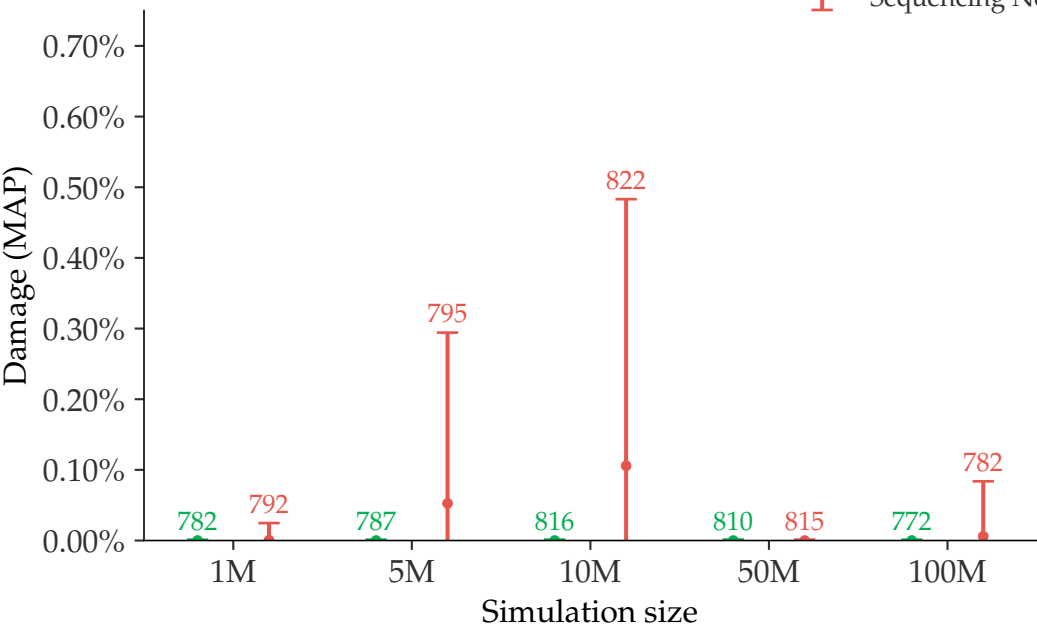
Non-ancient



Fragmentation



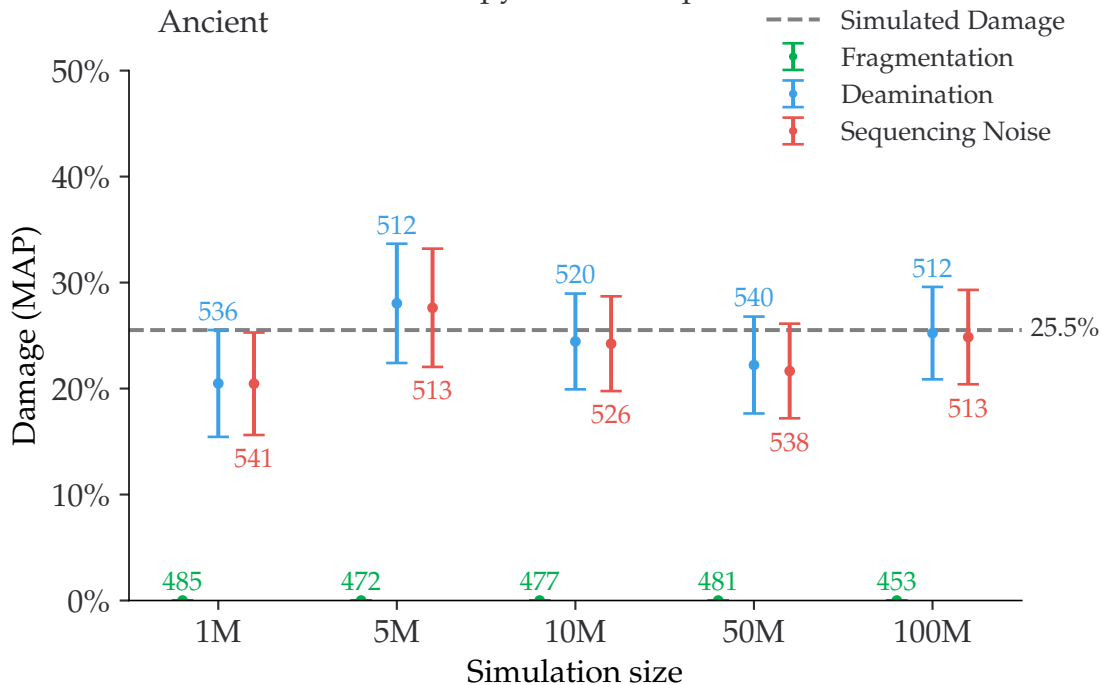
Sequencing Noise



Cave-102

Tax ID: 106229, s\_\_Campylobacter\_B sp900539505

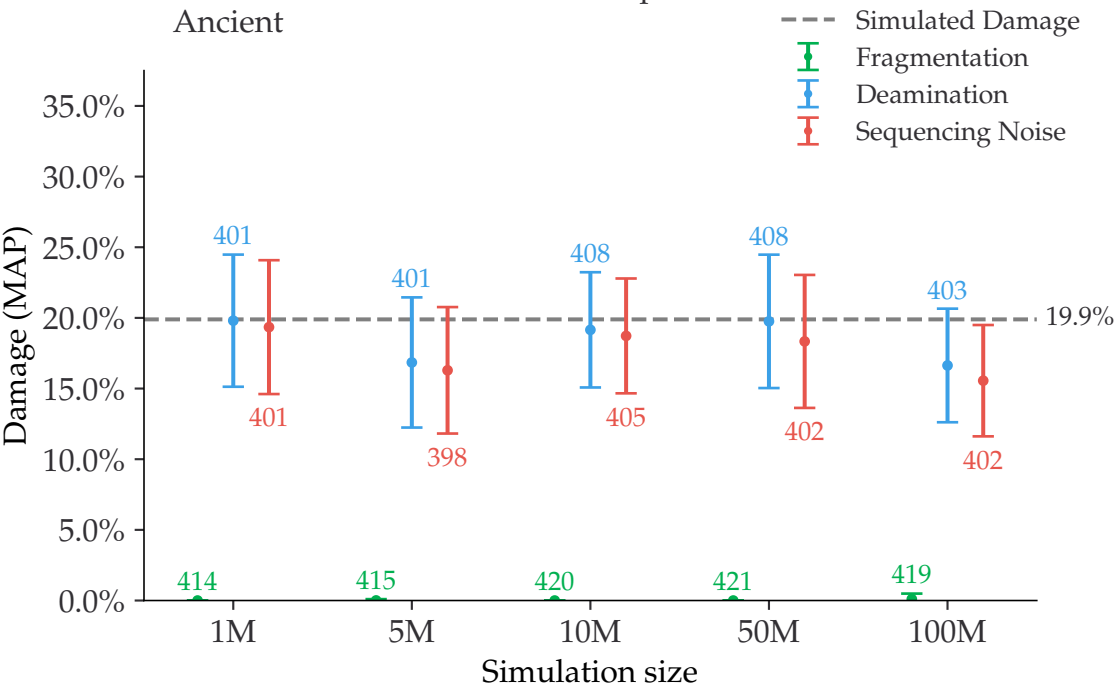
Ancient



Cave-102

Tax ID: 113453, s\_\_Oribacterium sp000160135

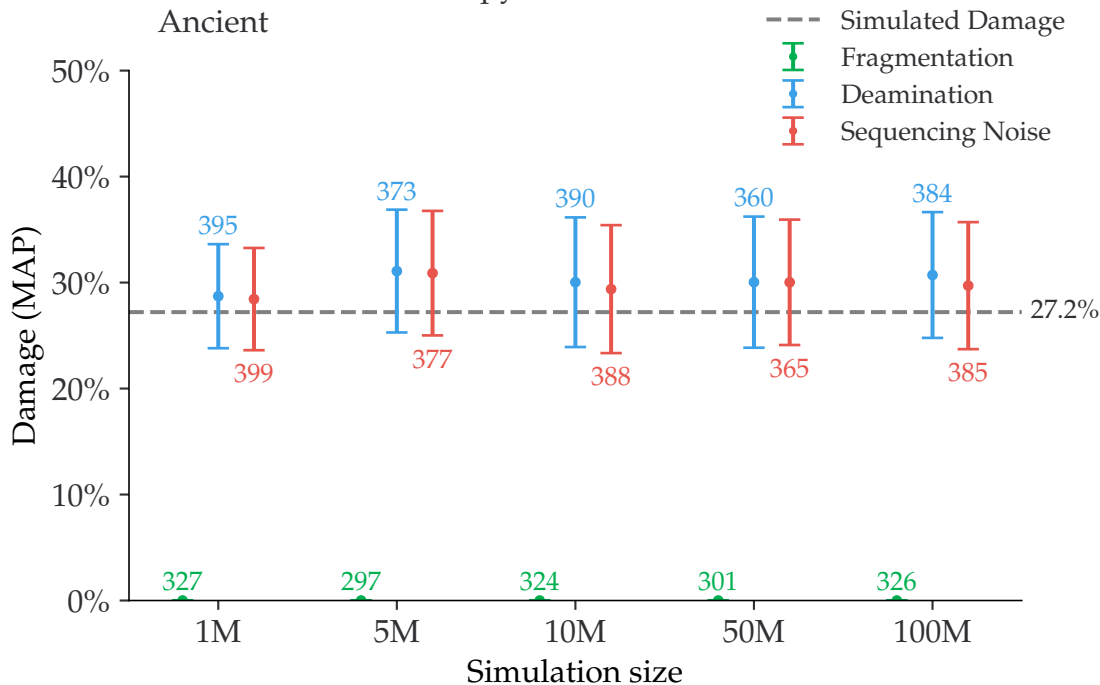
Ancient



Cave-102

Tax ID: 114887, s\_\_Campylobacter\_A showae\_B

Ancient

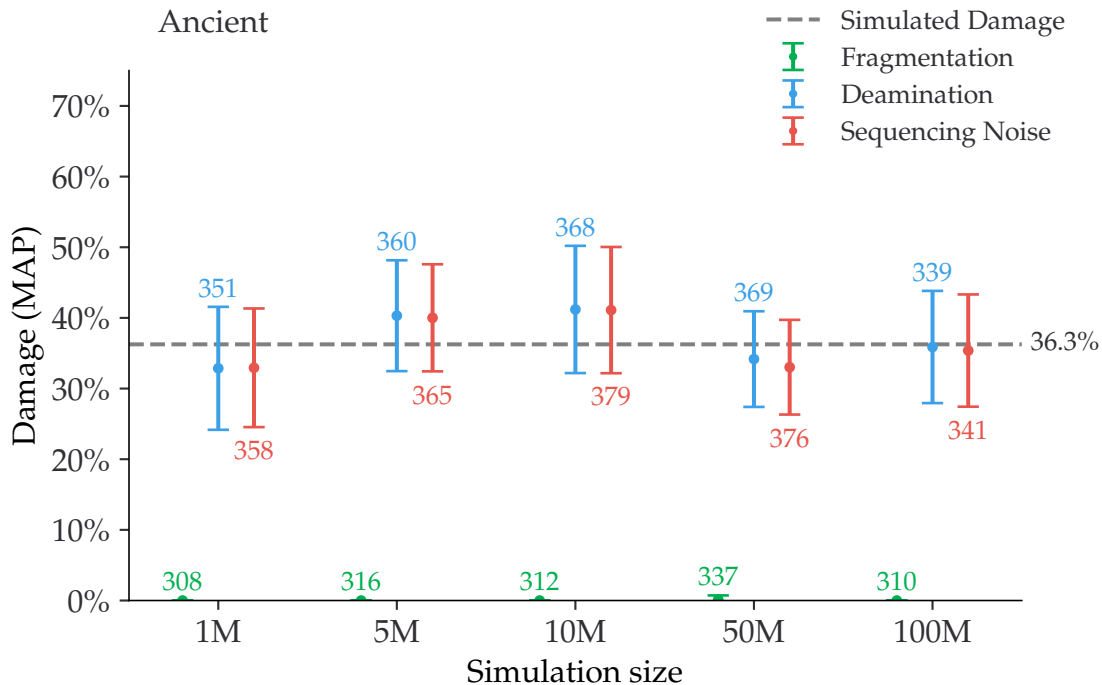




Cave-102

Tax ID: 114442, s\_\_Fusobacterium hwasookii

Ancient



Cave-102

Tax ID: 120211, s\_\_Enterobacter hormaechei\_A

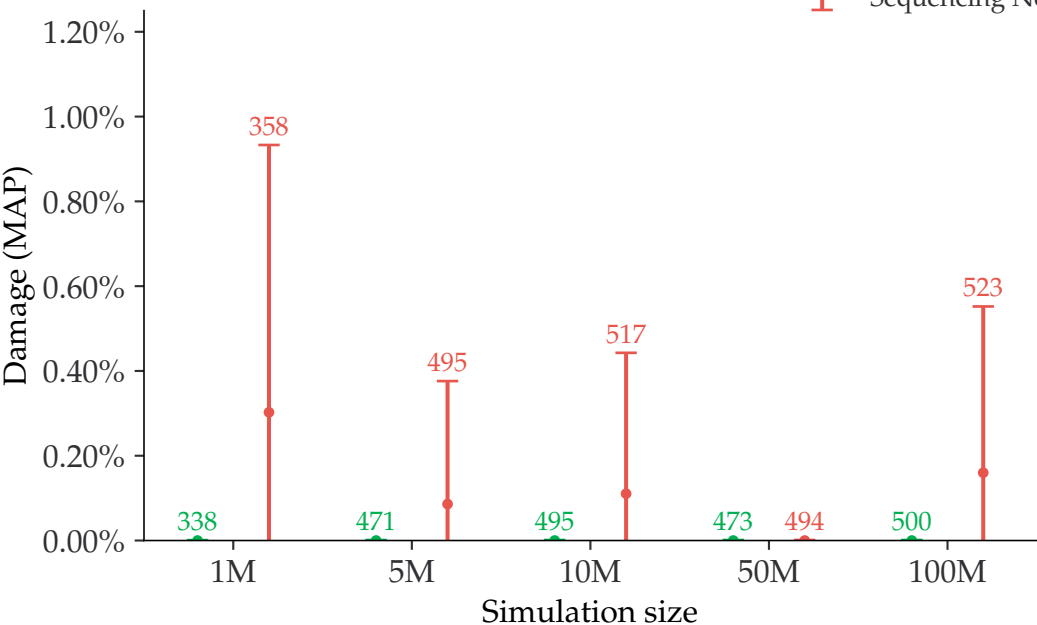
Non-ancient



Fragmentation



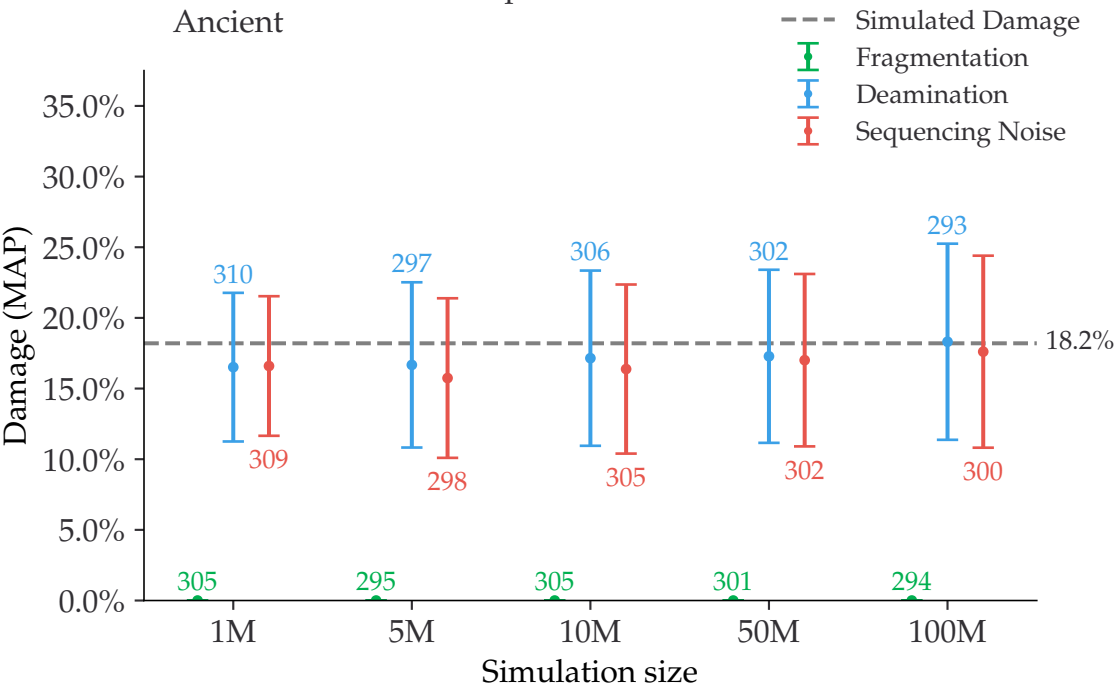
Sequencing Noise



Cave-102

Tax ID: 113459, s\_\_Centipeda noxia

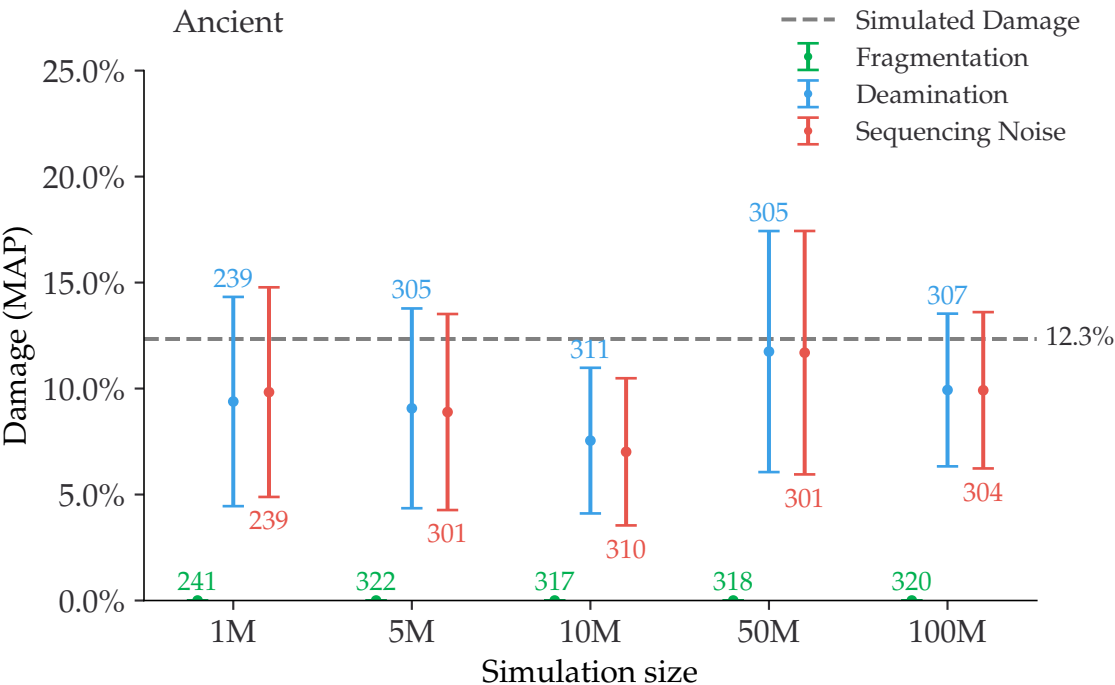
Ancient



Cave-102

Tax ID: 116152, s\_\_*Desulfocurvus vexinensis*

Ancient

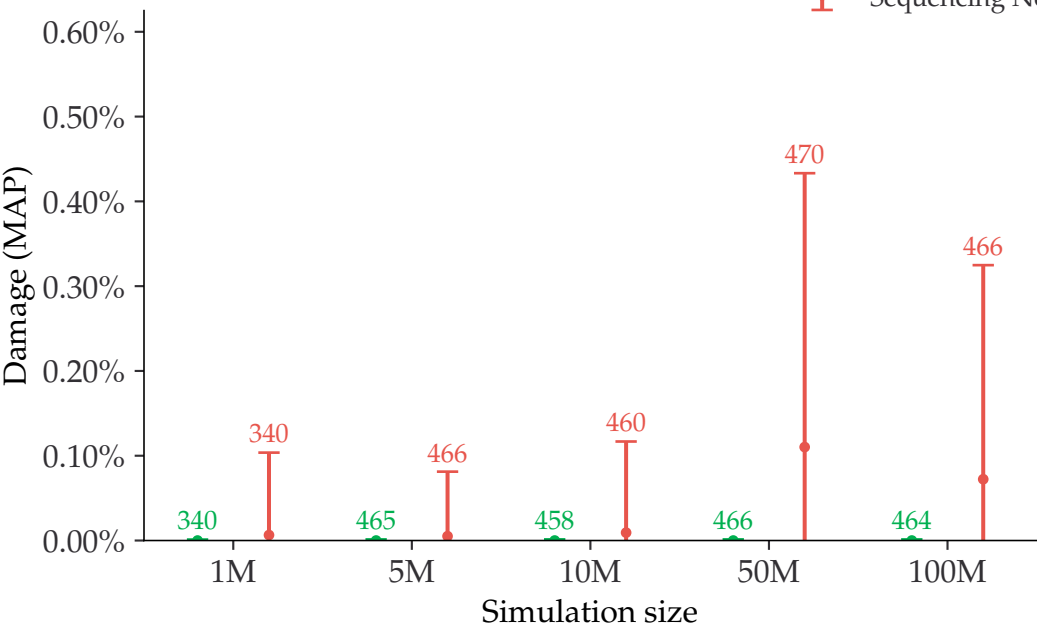


Cave-102

Tax ID: 129964, s\_\_Massilia aurea\_B

Non-ancient

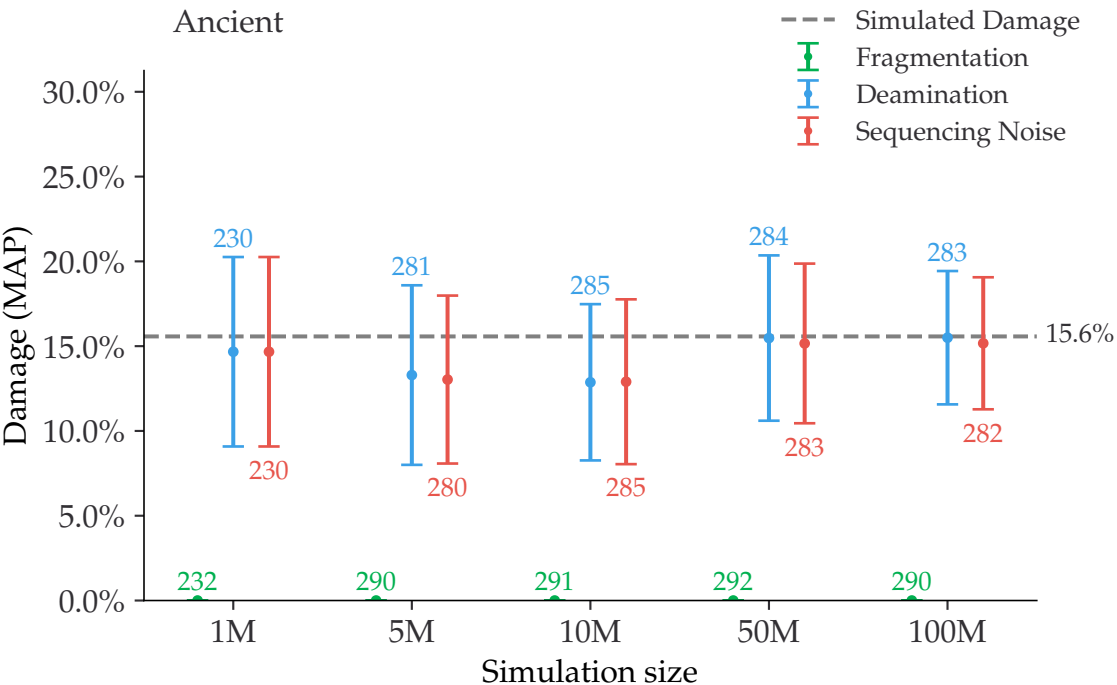
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 113287, s\_\_Desulfarculus baarsii

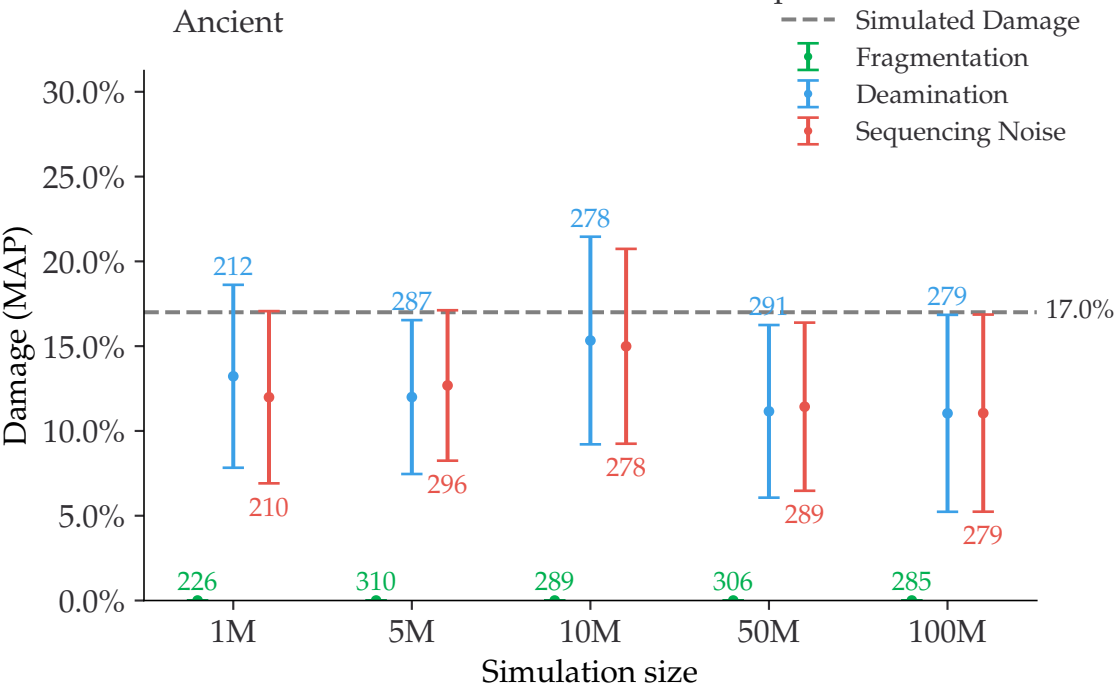
Ancient



Cave-102

Tax ID: 113606, s\_\_Pseudodesulfovibrio aespoeensis

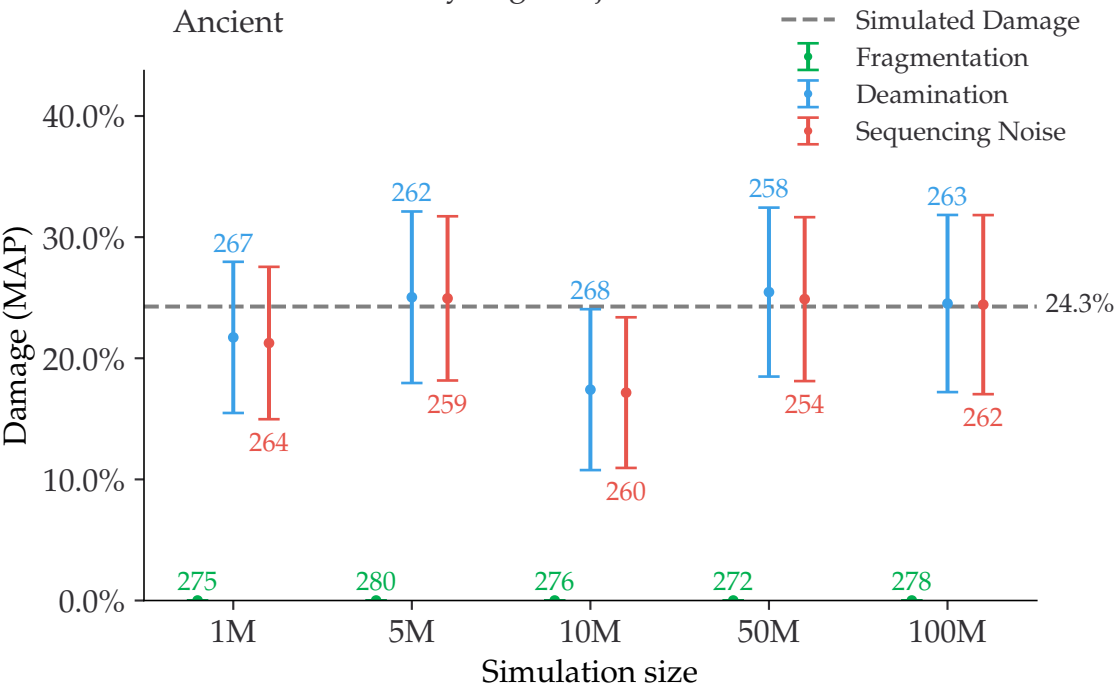
Ancient



Cave-102

Tax ID: 116725, s\_\_*Synergistes jonesii*

Ancient

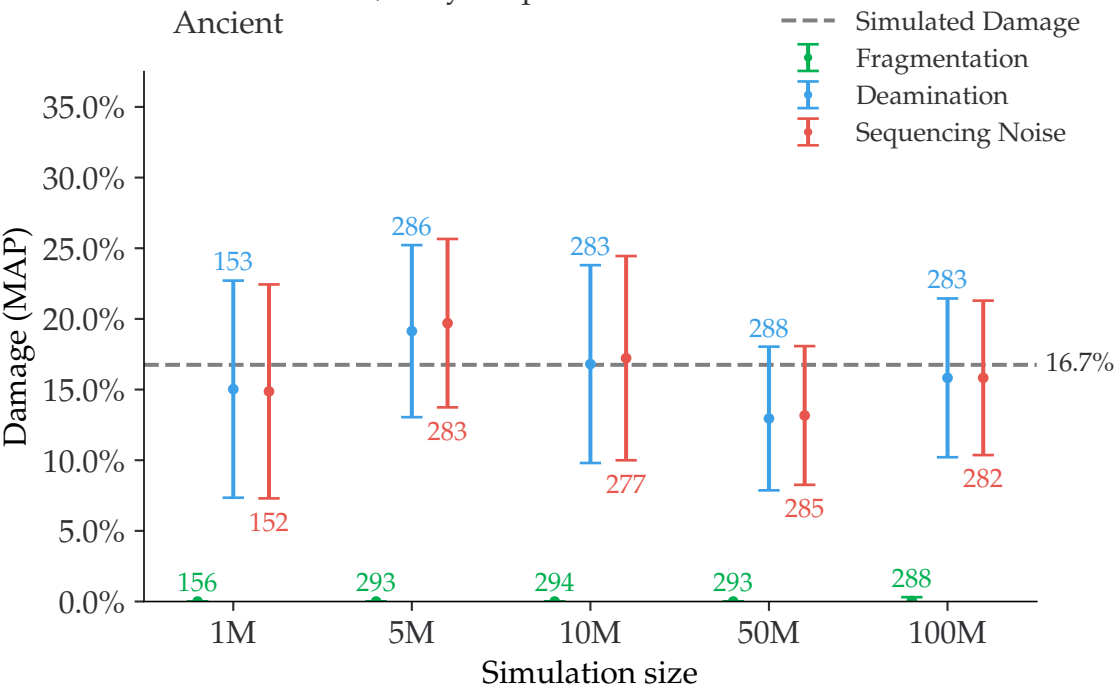




Cave-102

Tax ID: 112961, s\_\_Syntrophobacter fumaroxidans

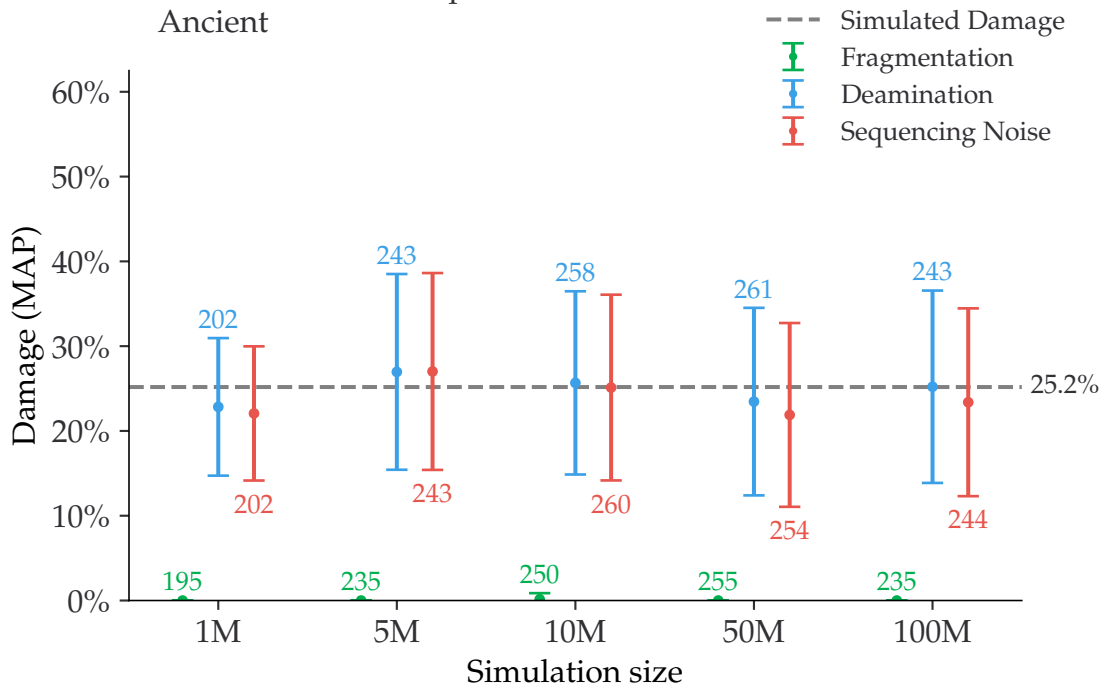
Ancient



Cave-102

Tax ID: 113143, s\_\_Leptotrichia buccalis

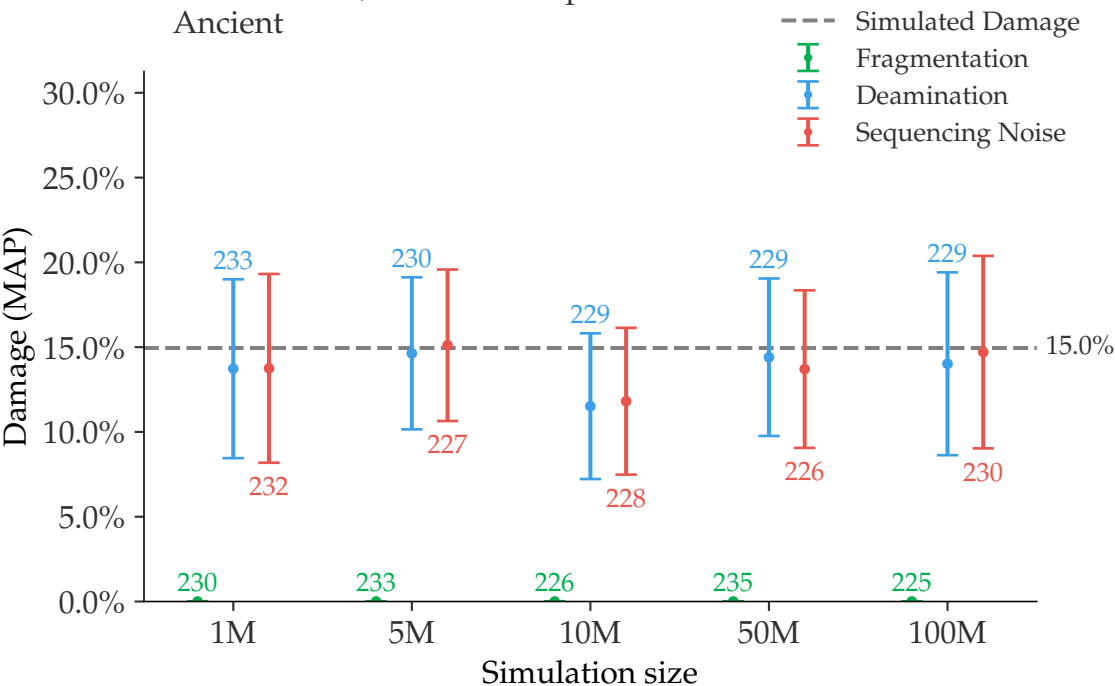
Ancient



Cave-102

Tax ID: 94838, *s\_\_Olsenella* sp003862195

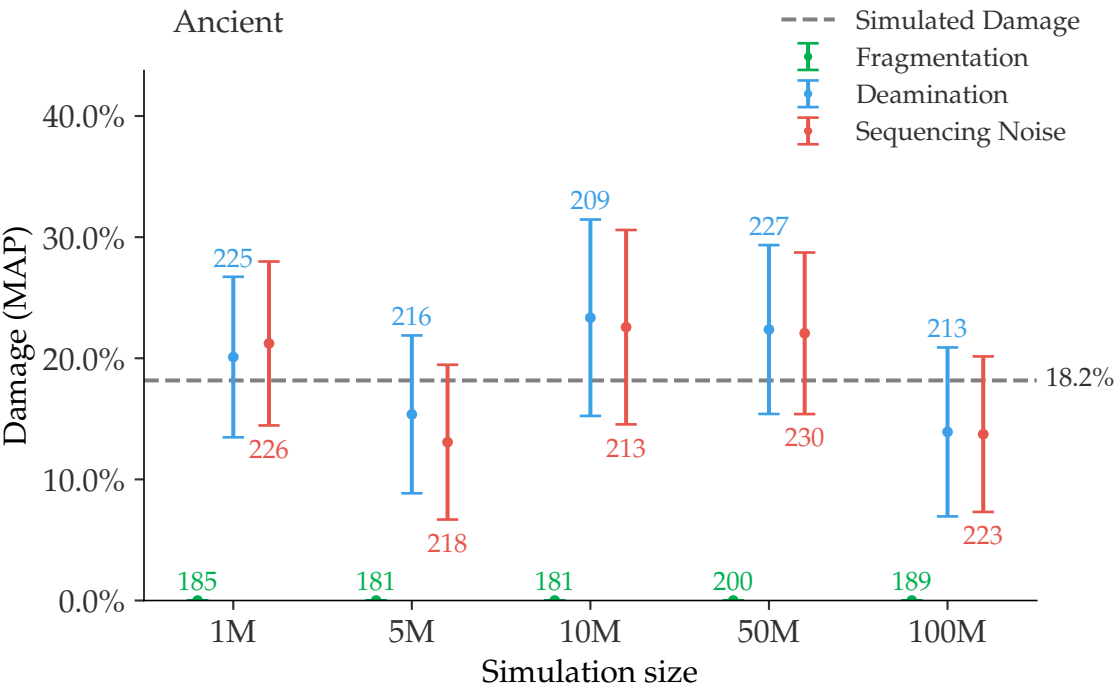
Ancient



Cave-102

Tax ID: 76369, *s\_\_Veillonella denticariosi*

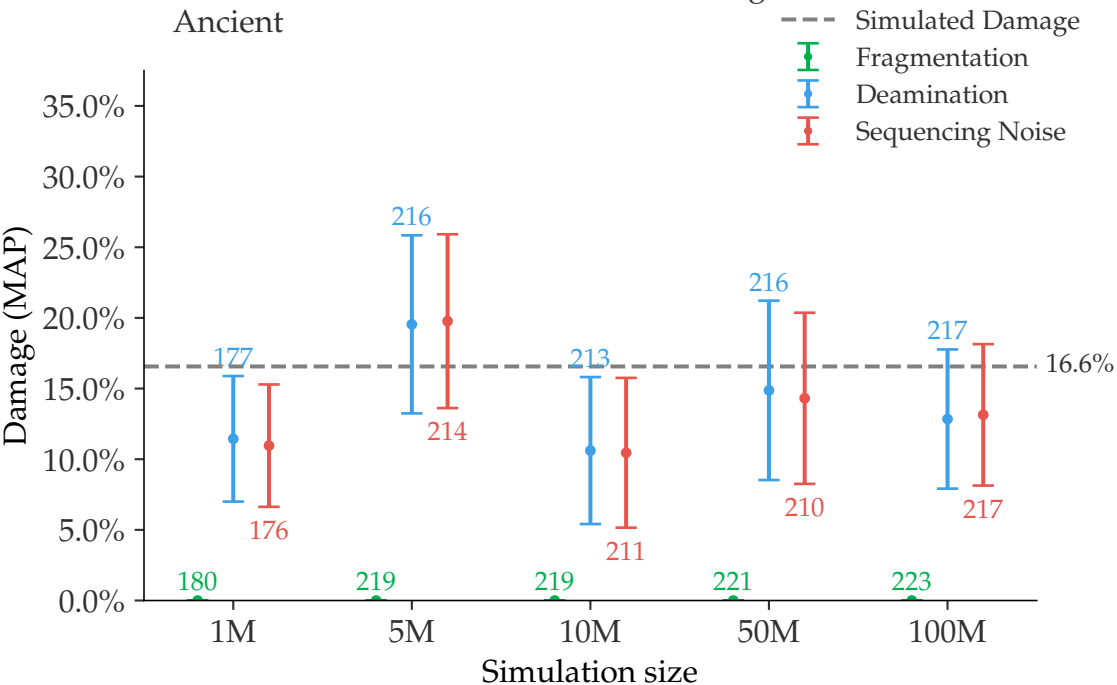
Ancient



Cave-102

Tax ID: 115405, s\_\_Paucidesulfovibrio longus

Ancient



Cave-102

Tax ID: 72447, s\_\_Pseudomonas nitroreducens

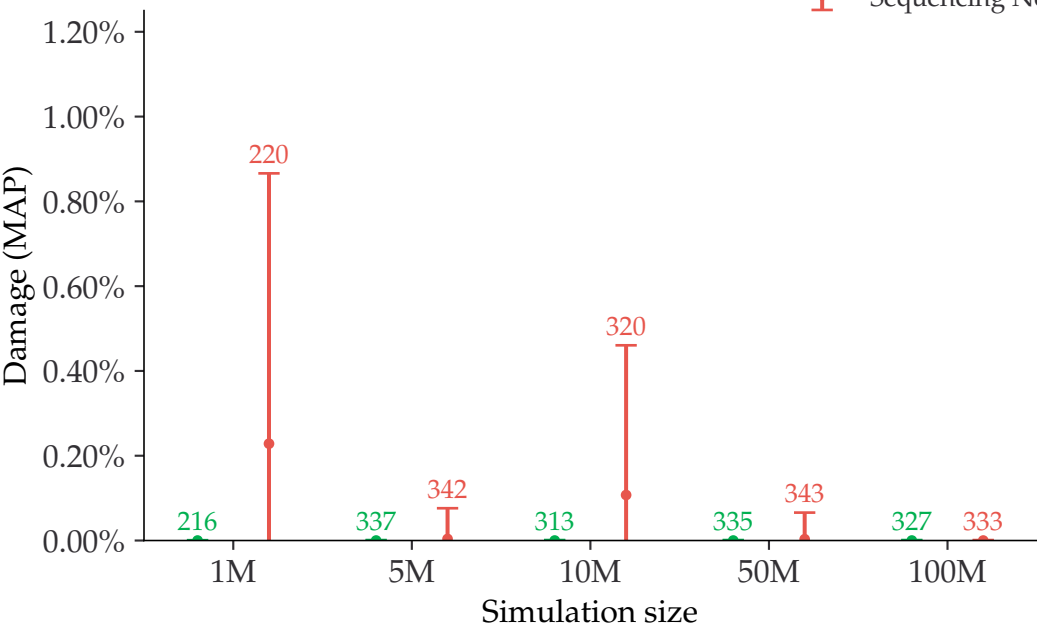
Non-ancient



Fragmentation



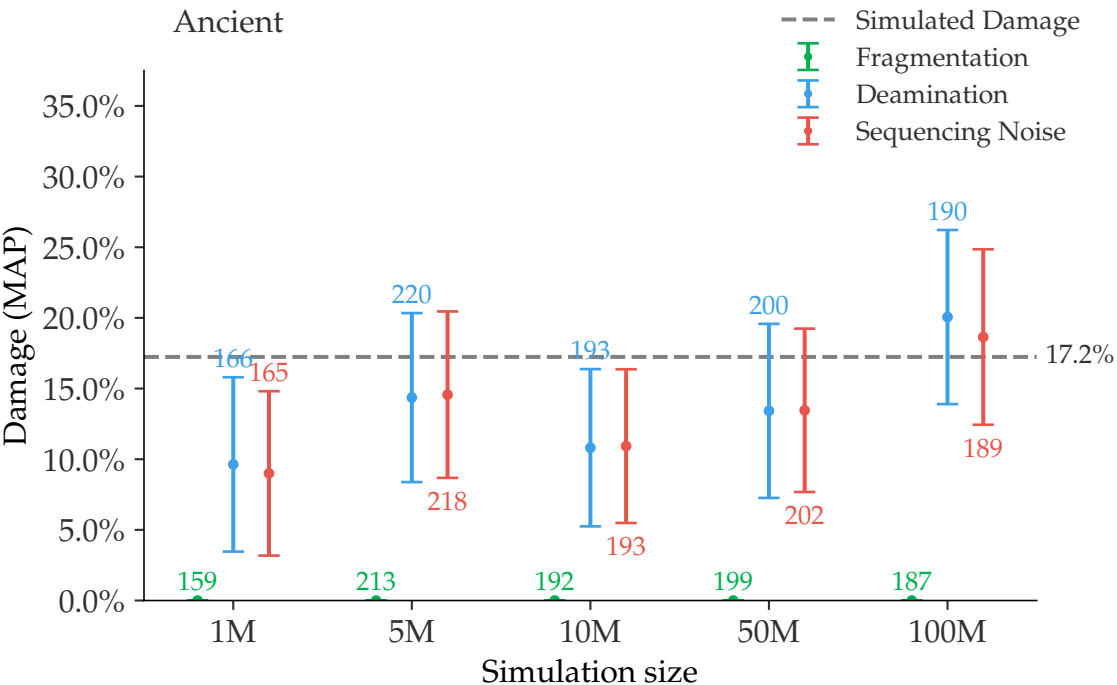
Sequencing Noise



Cave-102

Tax ID: 115672, s\_\_Desulfomicrobium escambiense

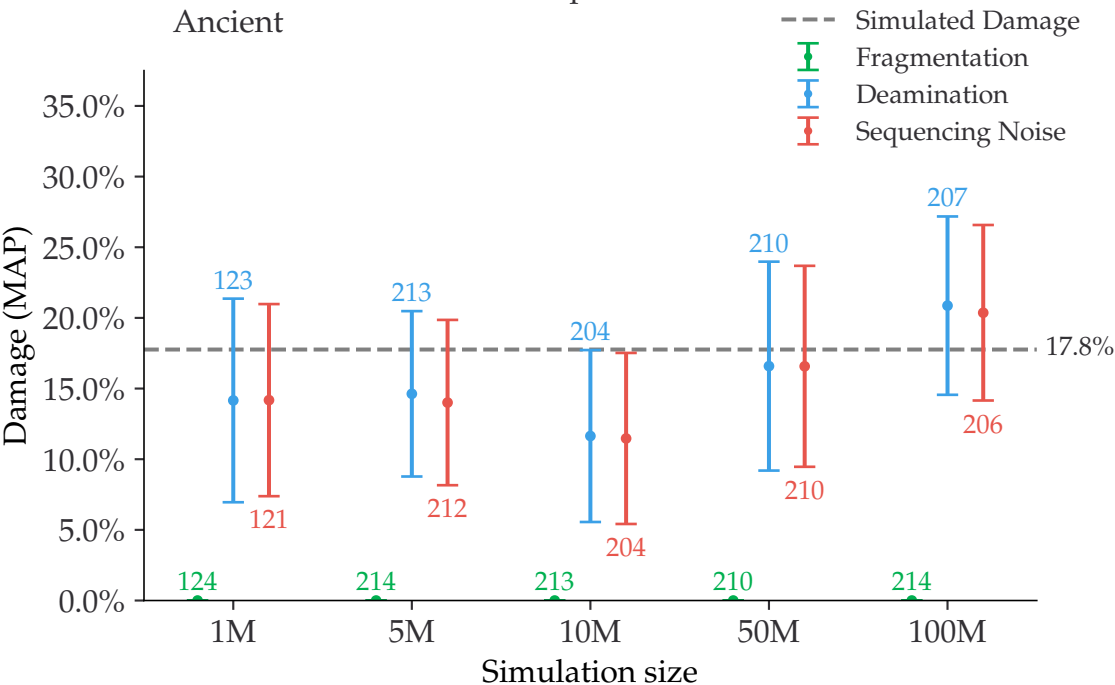
Ancient



Cave-102

Tax ID: 100789, s\_DSUX01 sp011328915

Ancient

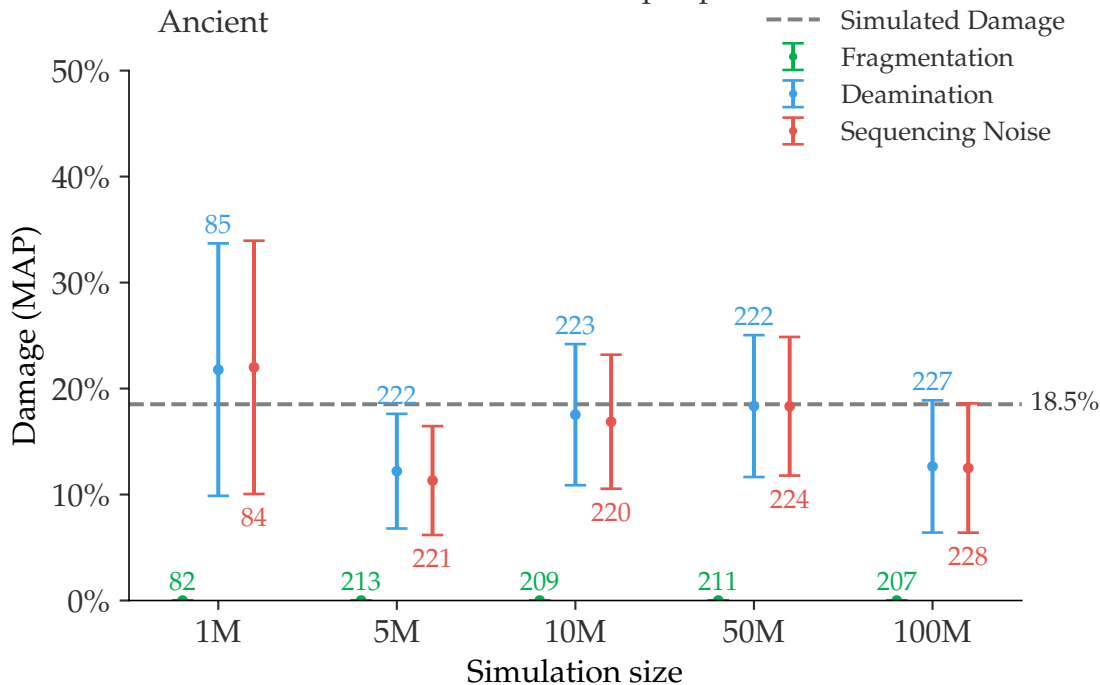




Cave-102

Tax ID: 118384, s\_\_Desulfatitalea tepidiphila

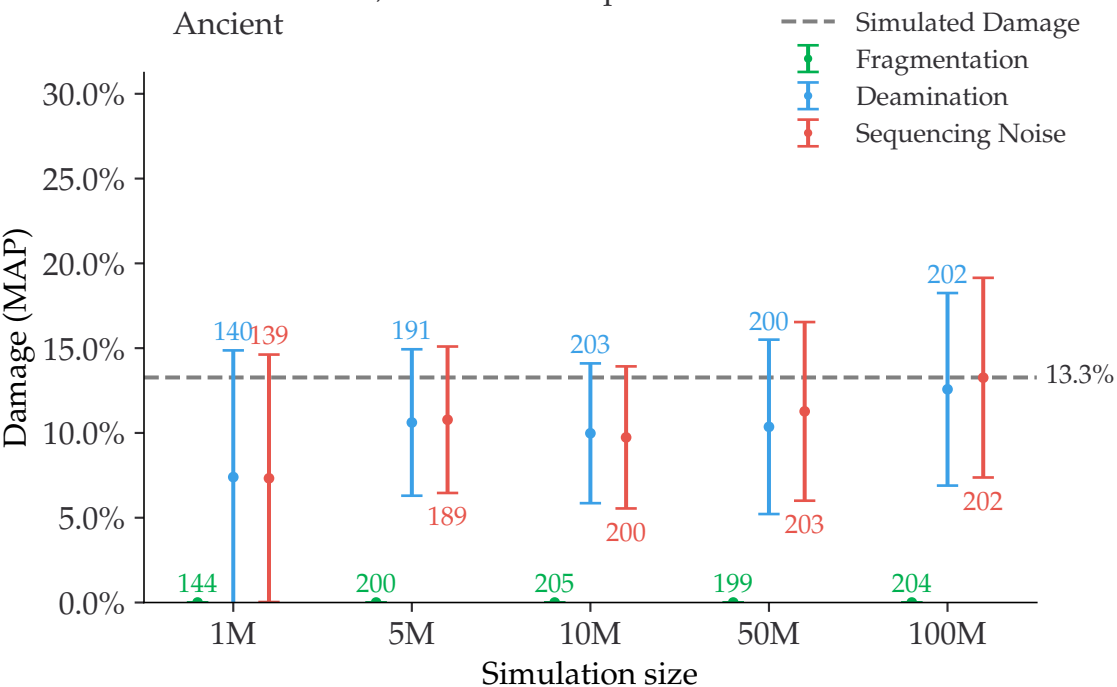
Ancient



Cave-102

Tax ID: 126020, s\_\_Thauera\_A sp004801295

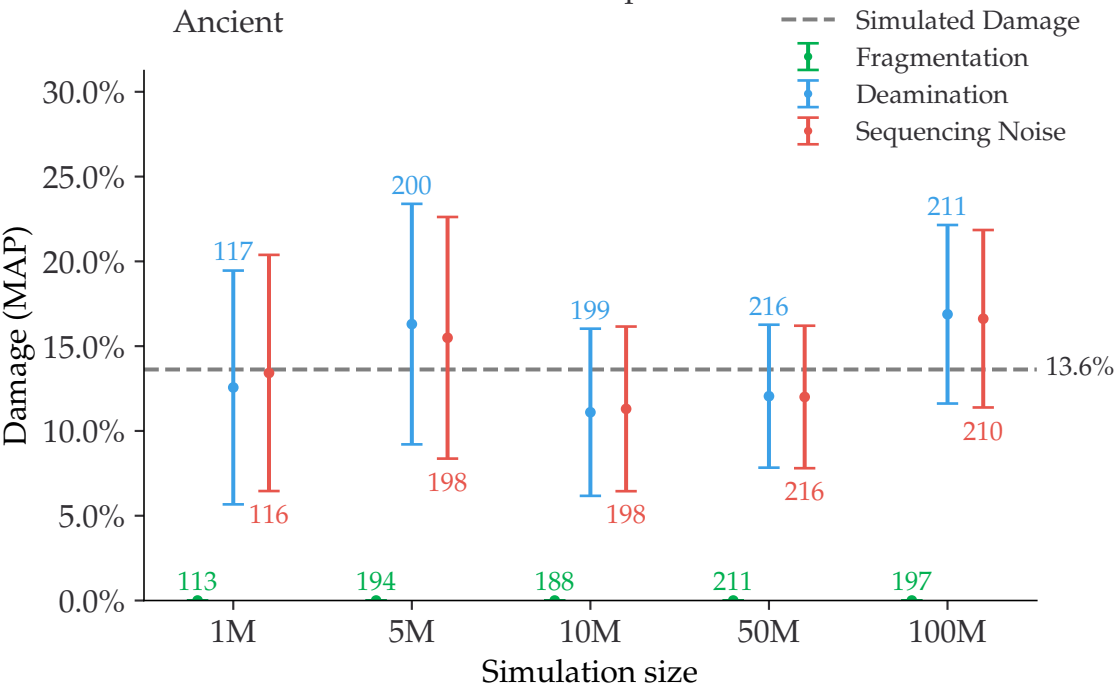
Ancient



Cave-102

Tax ID: 126819, s\_\_Bordetella\_B sp007679965

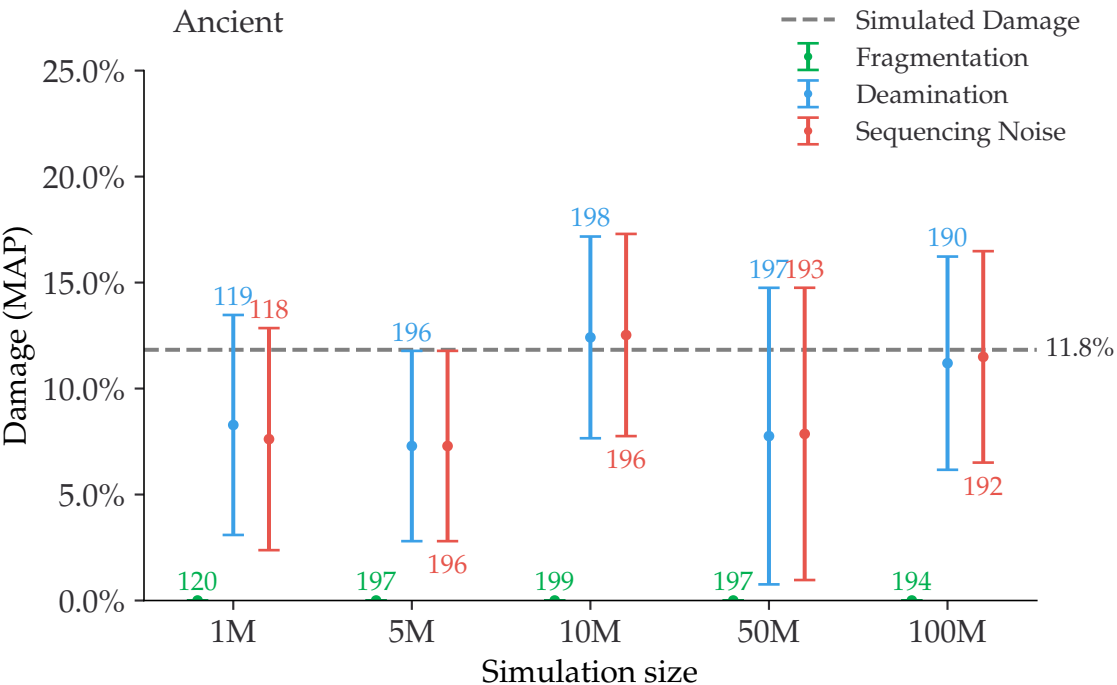
Ancient



Cave-102

Tax ID: 115662, s\_\_Chitinimonas koreensis

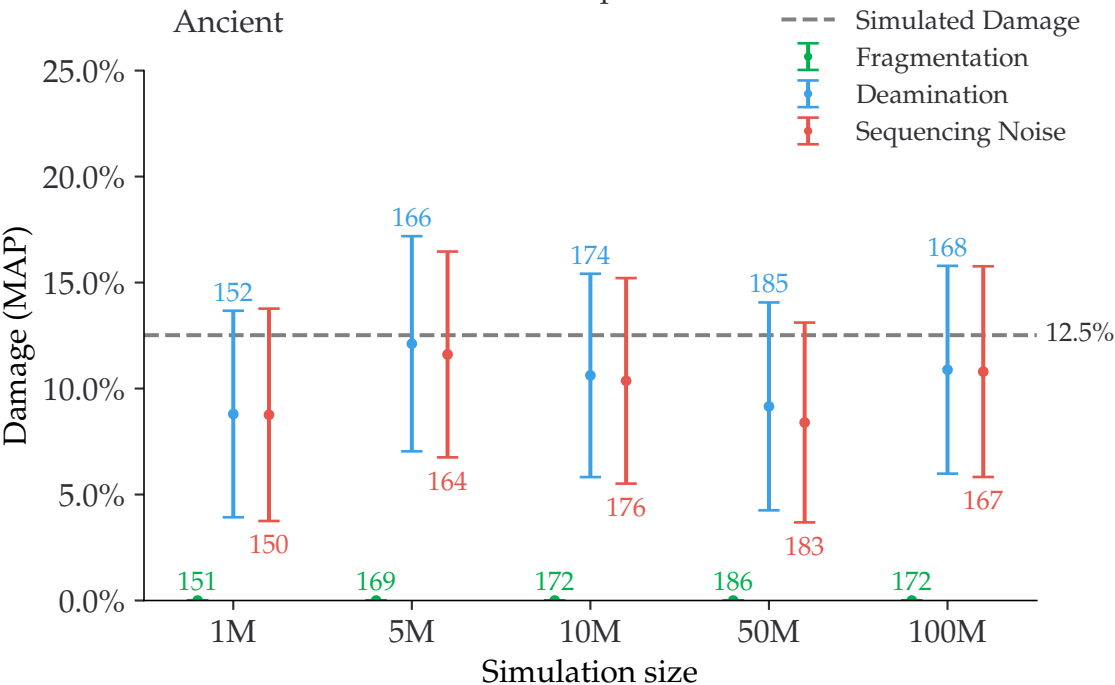
Ancient



Cave-102

Tax ID: 112670, s\_\_CAIZPE01 sp903934795

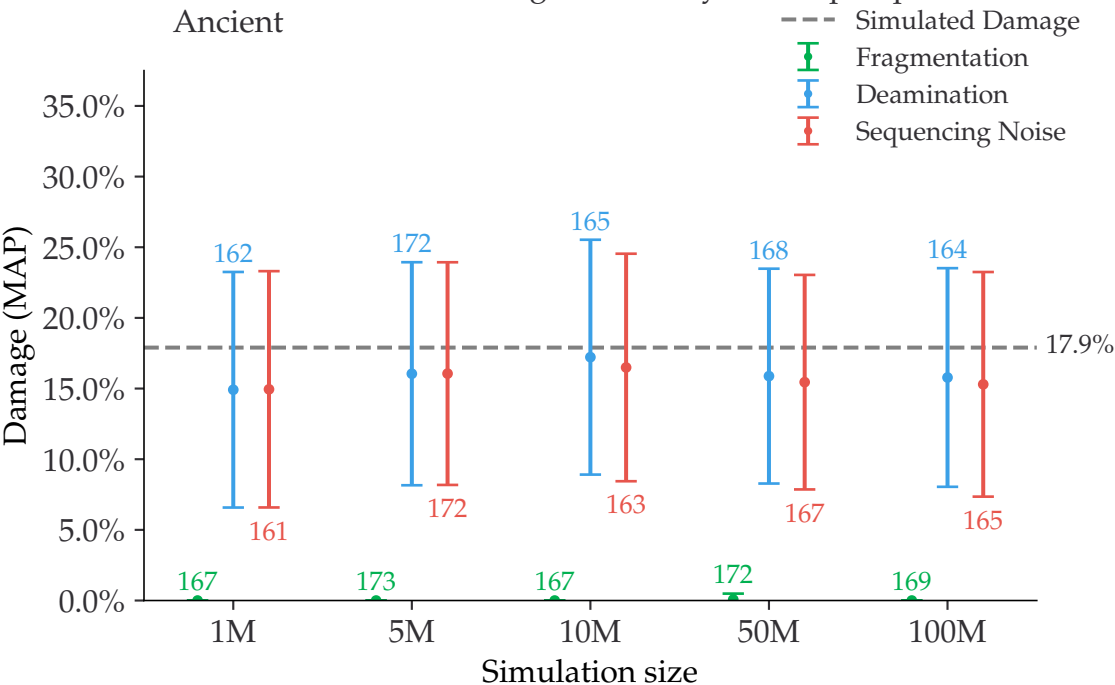
Ancient



Cave-102

Tax ID: 113278, s\_\_Dehalogenimonas lykanthroporepellens

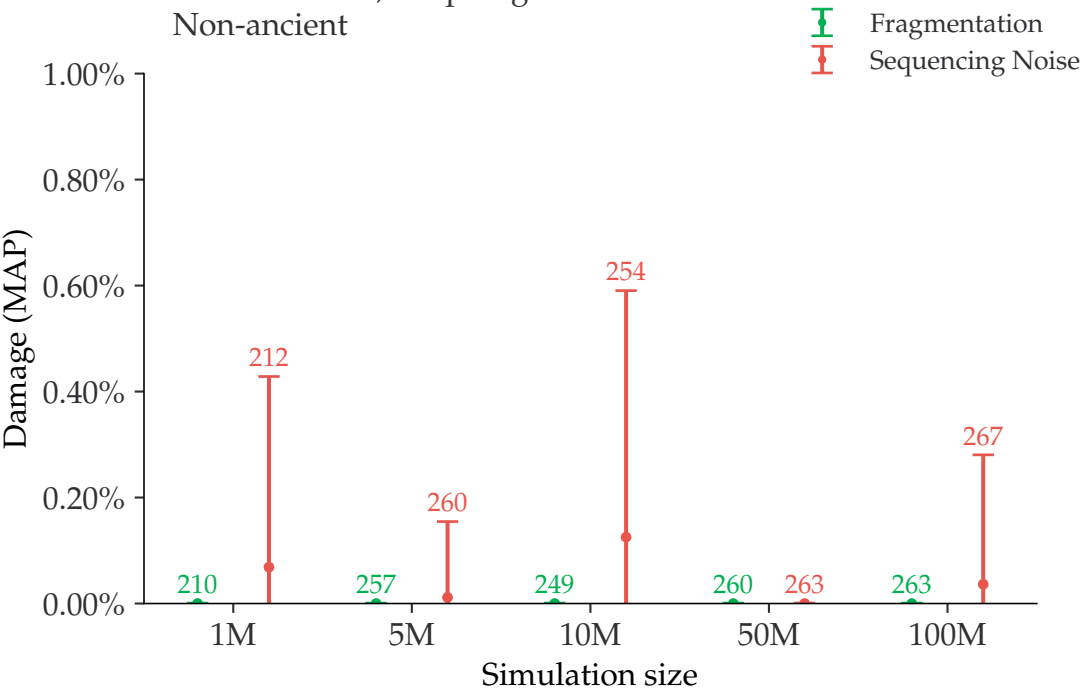
Ancient



Cave-102

Tax ID: 122872, s\_\_*Sphingomonas aurantiaca*

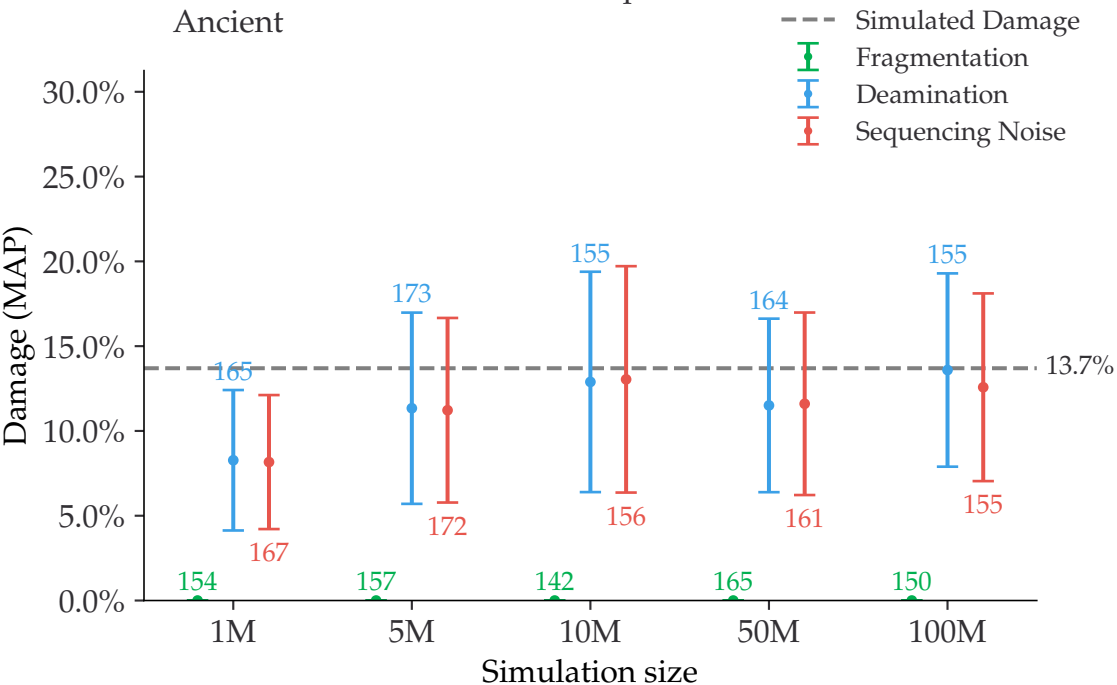
Non-ancient



Cave-102

Tax ID: 83167, *s\_\_Pulveribacter* sp002434305

Ancient





Cave-102

Tax ID: 122955, s\_\_Bradyrhizobium algeriense

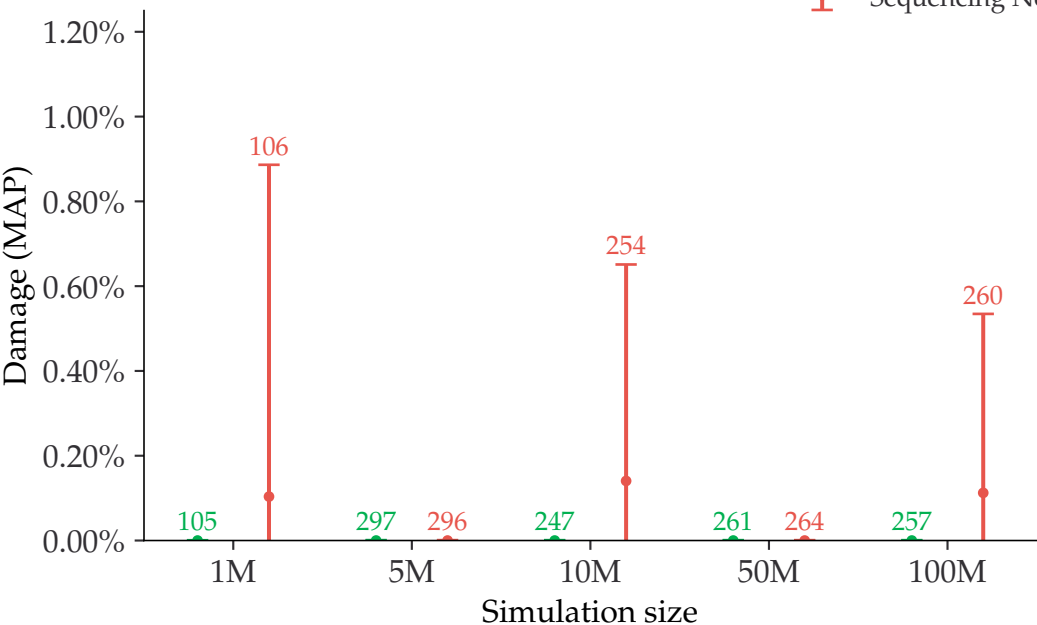
Non-ancient



Fragmentation



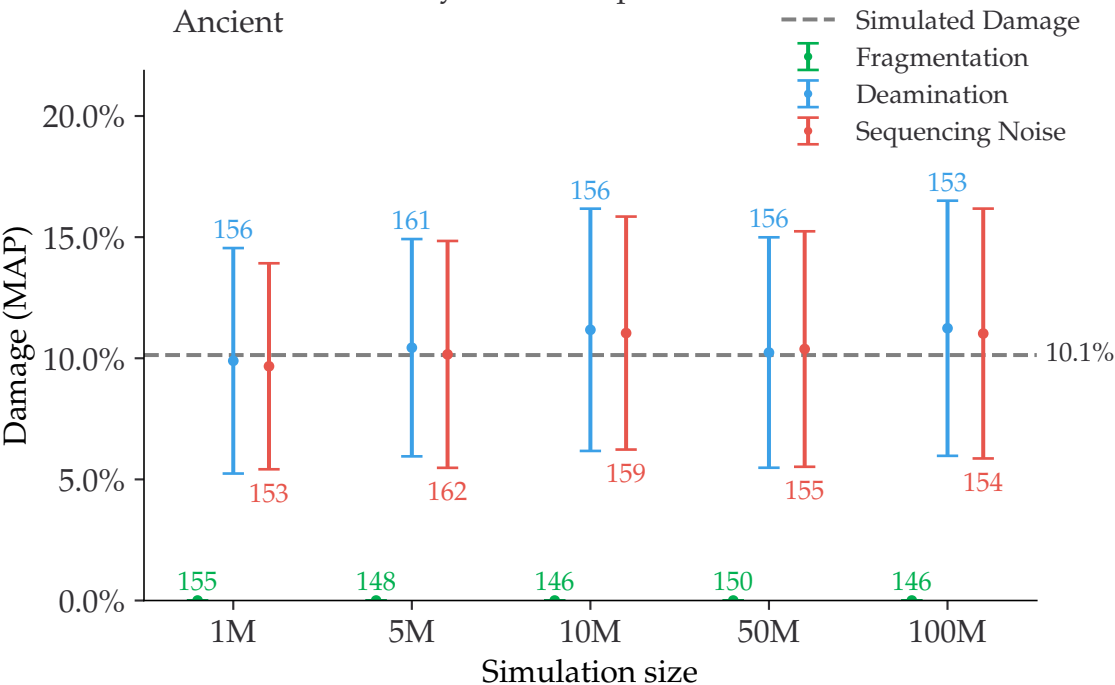
Sequencing Noise



Cave-102

Tax ID: 78155, *s\_\_Hylemonella* sp001797315

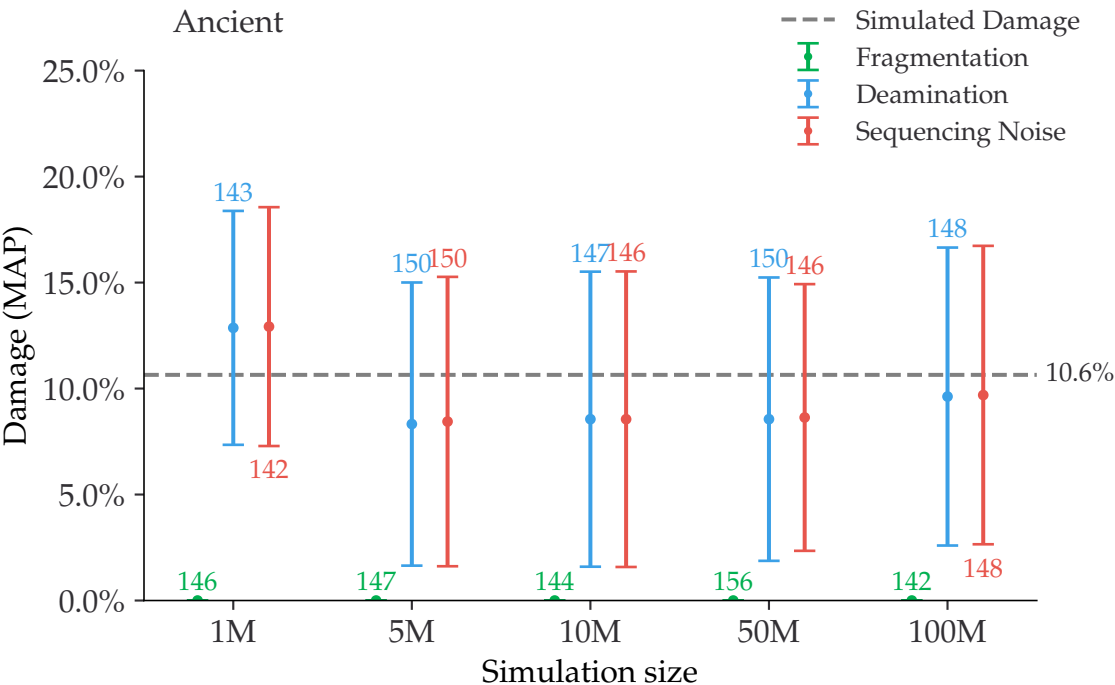
Ancient



Cave-102

Tax ID: 119568, s\_\_Castellaniella caeni

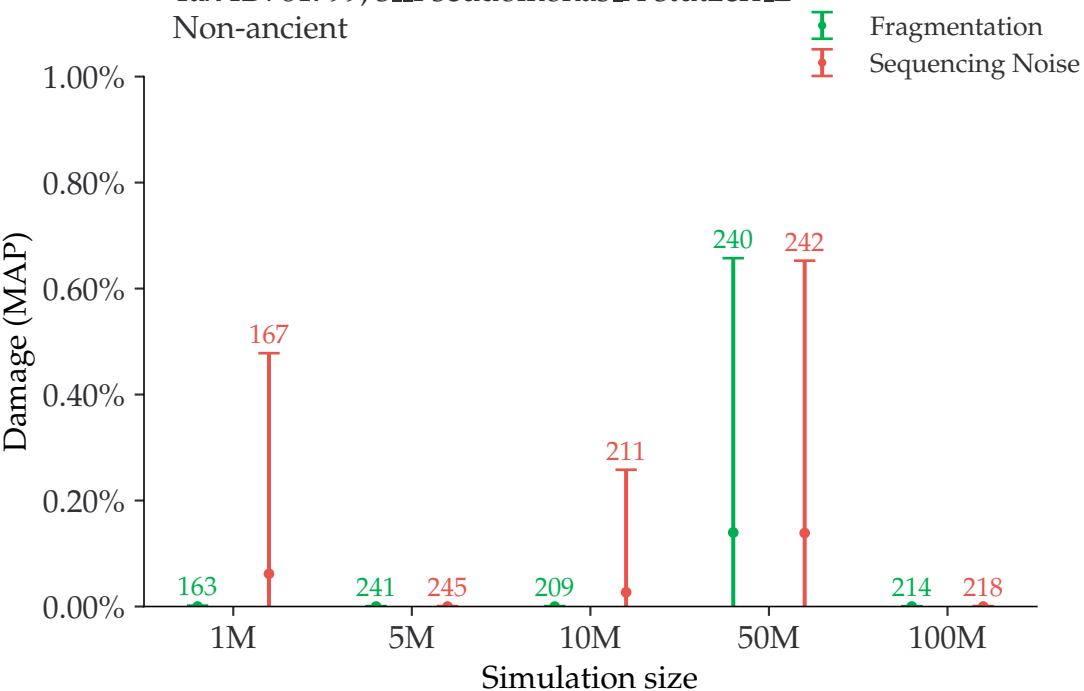
Ancient



Cave-102

Tax ID: 81799, s\_\_Pseudomonas\_A stutzeri\_L

Non-ancient



Cave-102

Tax ID: 81847, s\_\_*Stenotrophomonas bentonitica*\_A

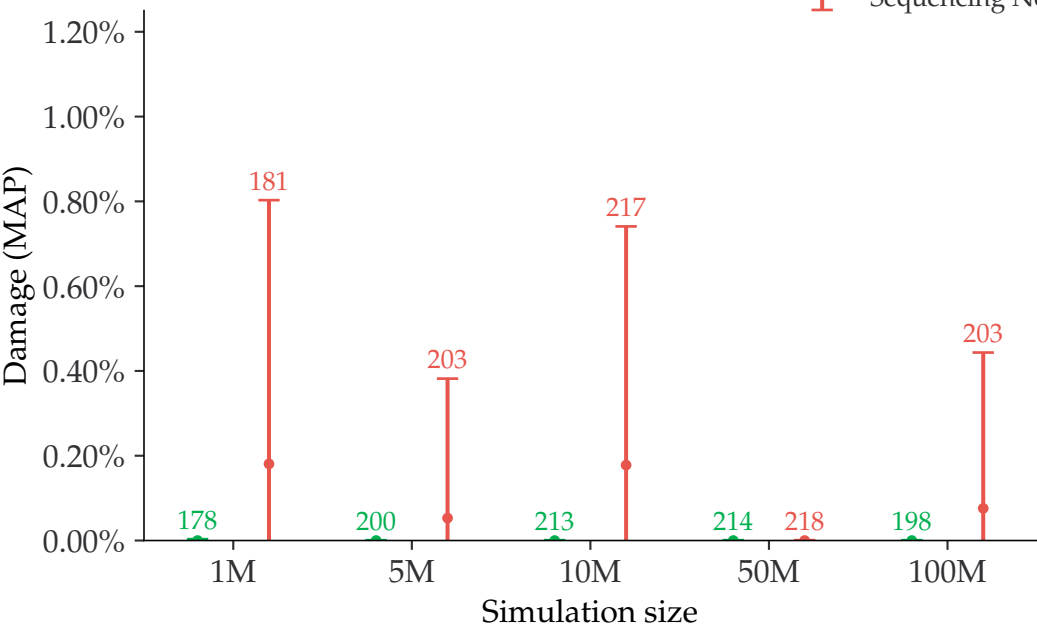
Non-ancient



Fragmentation



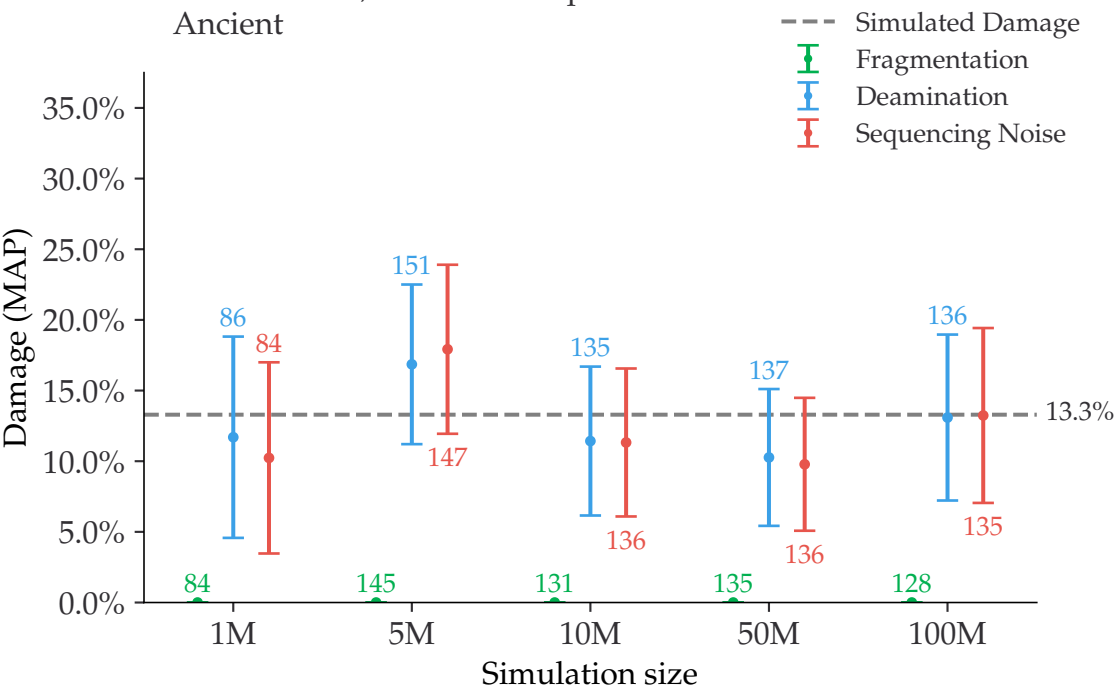
Sequencing Noise



Cave-102

Tax ID: 94149, s\_\_UBA4615 sp003818495

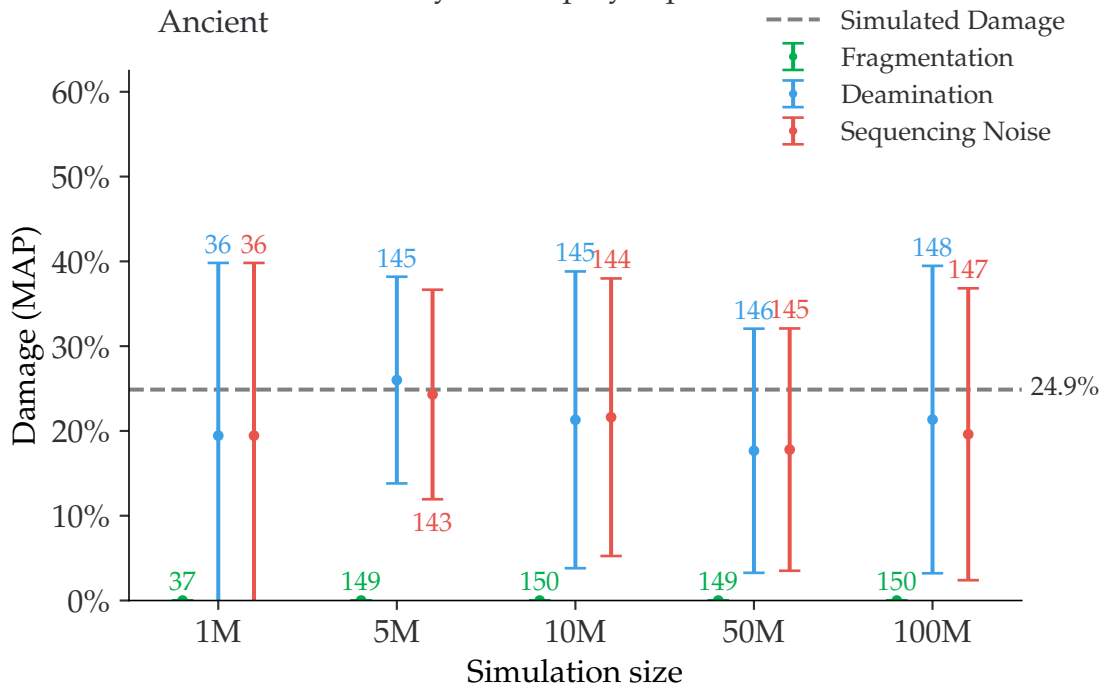
Ancient



Cave-102

Tax ID: 113499, s\_\_Ilyobacter polytropus

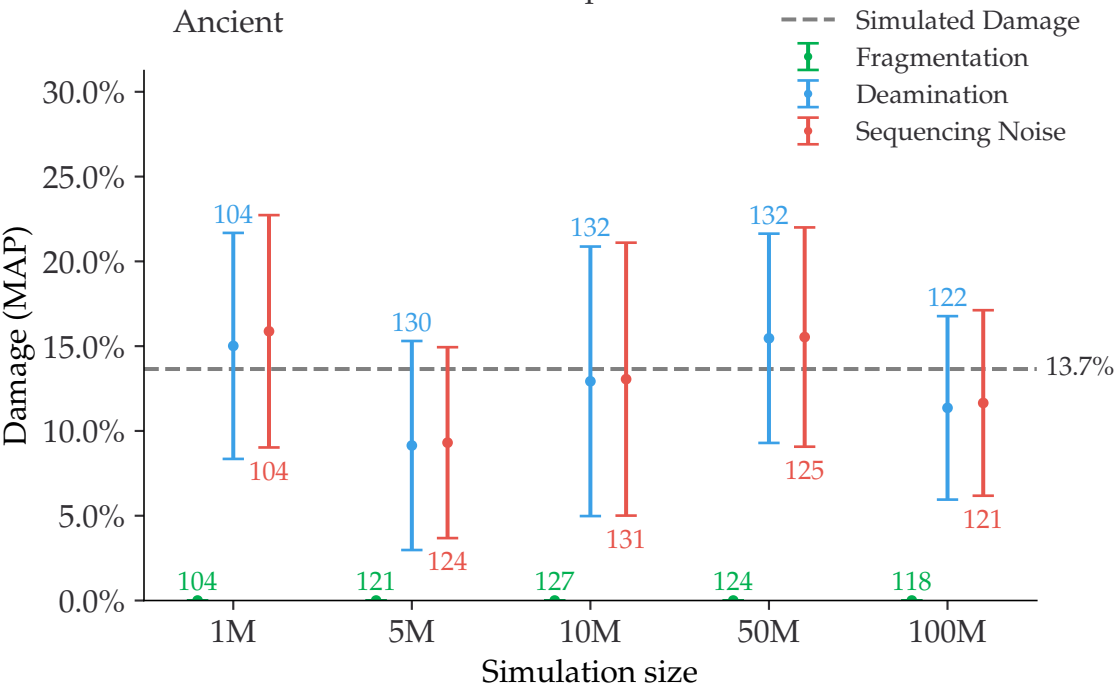
Ancient



Cave-102

Tax ID: 92904, s\_\_SCN-69-89 sp003577305

Ancient

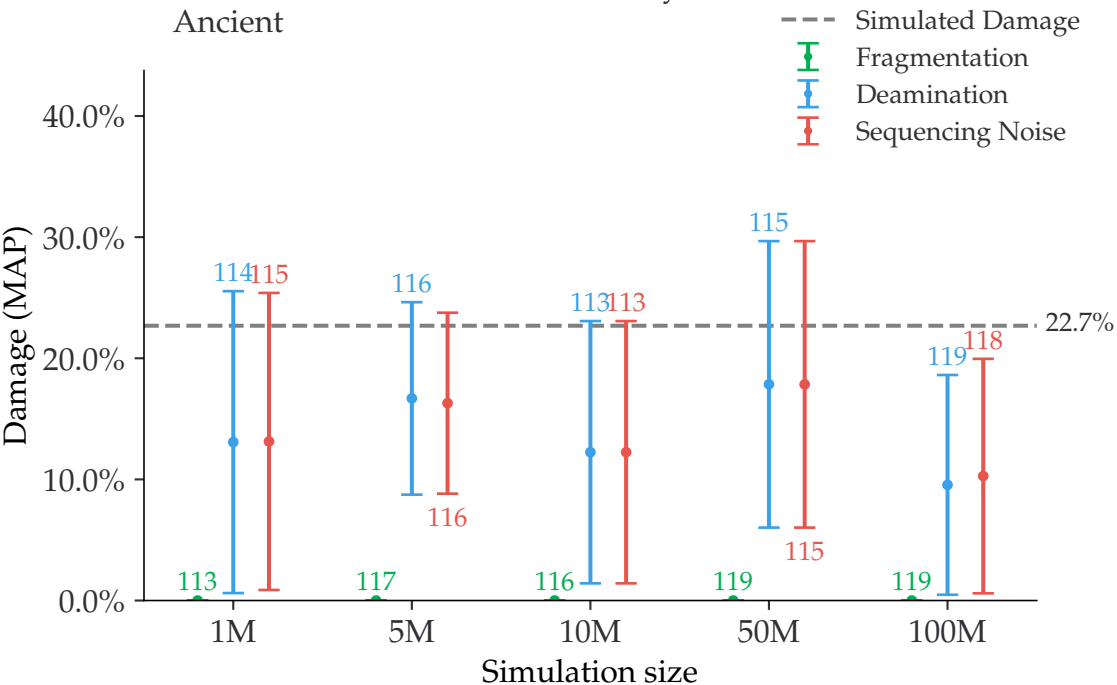




Cave-102

Tax ID: 120757, s\_\_Rodentibacter myodis

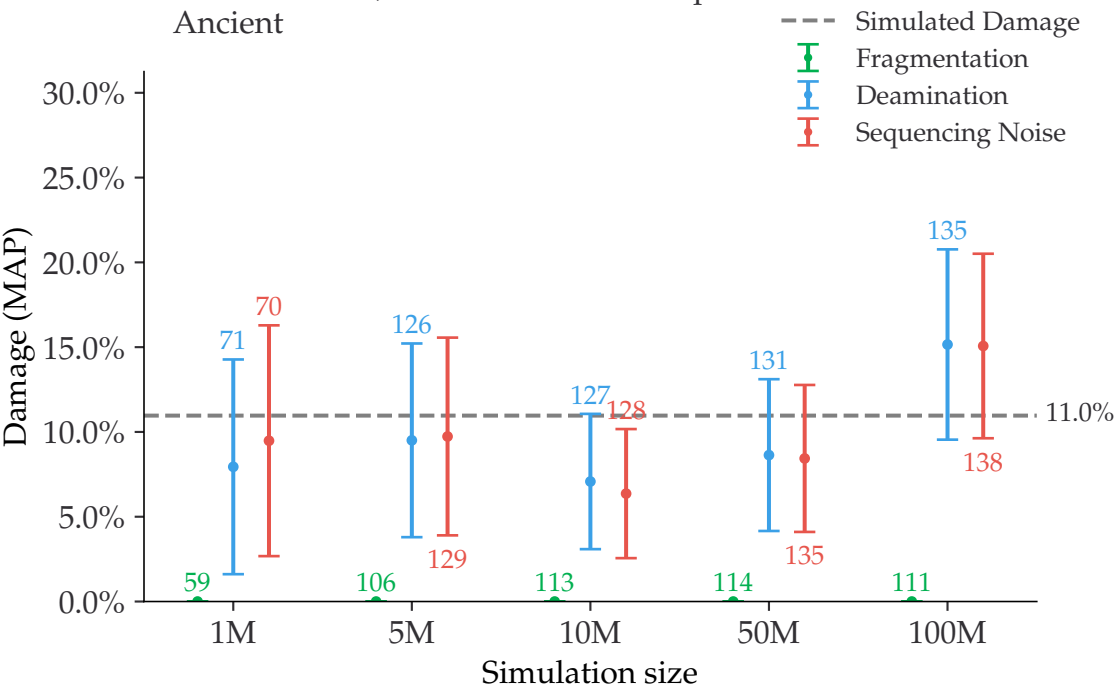
Ancient



Cave-102

Tax ID: 111729, s\_\_Pseudacidovorax sp903864295

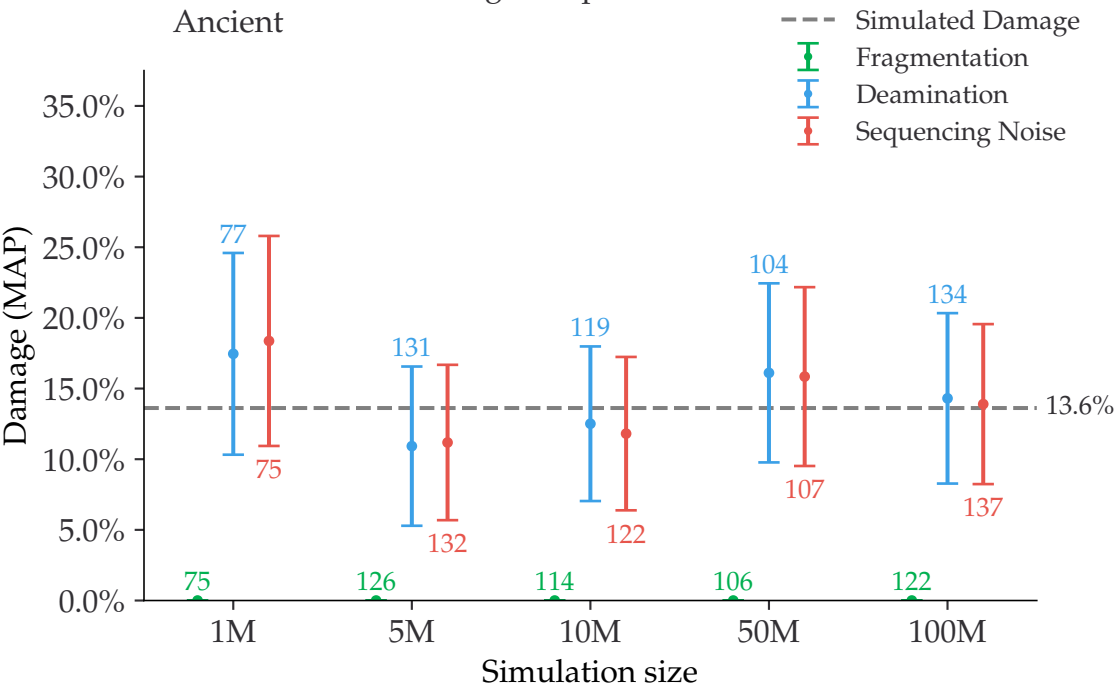
Ancient



Cave-102

Tax ID: 129070, s\_\_Zoogloea sp012927165

Ancient



Cave-102

Tax ID: 121127, s\_\_Hydrogenophaga sp002127215

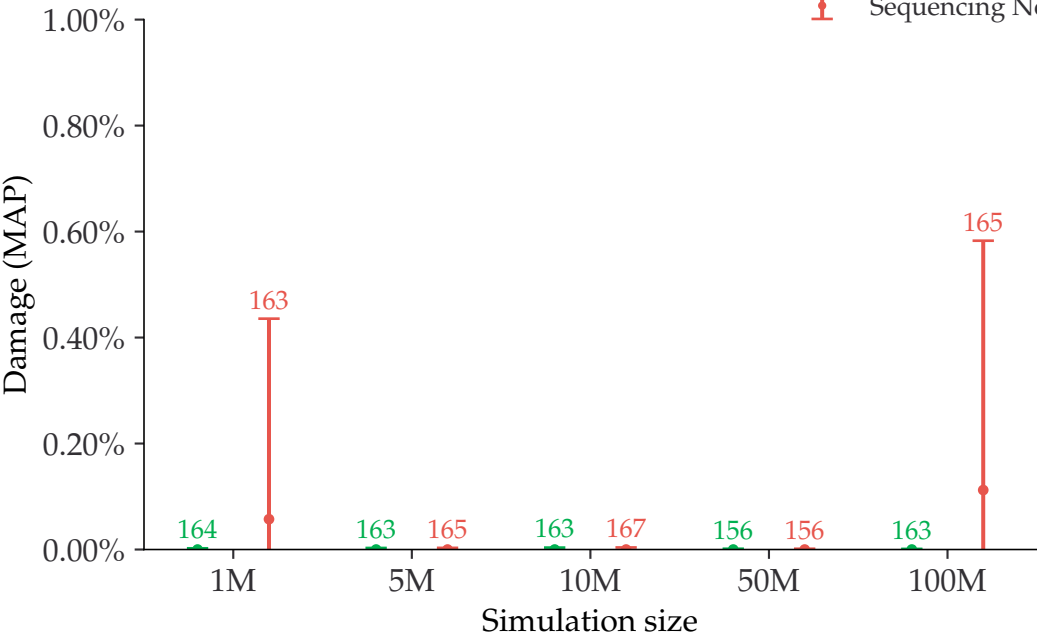
Non-ancient



Fragmentation



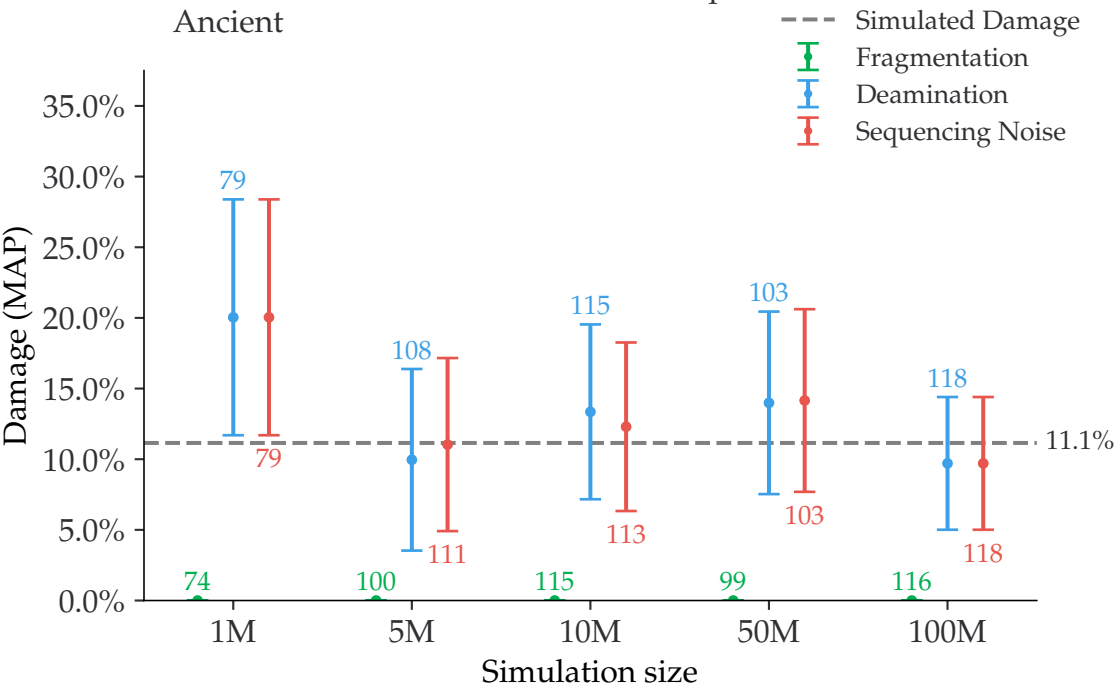
Sequencing Noise



Cave-102

Tax ID: 122447, s\_\_Chromobacterium sp002924365

Ancient



Cave-102

Tax ID: 124195, s\_\_Sphingobium limneticum

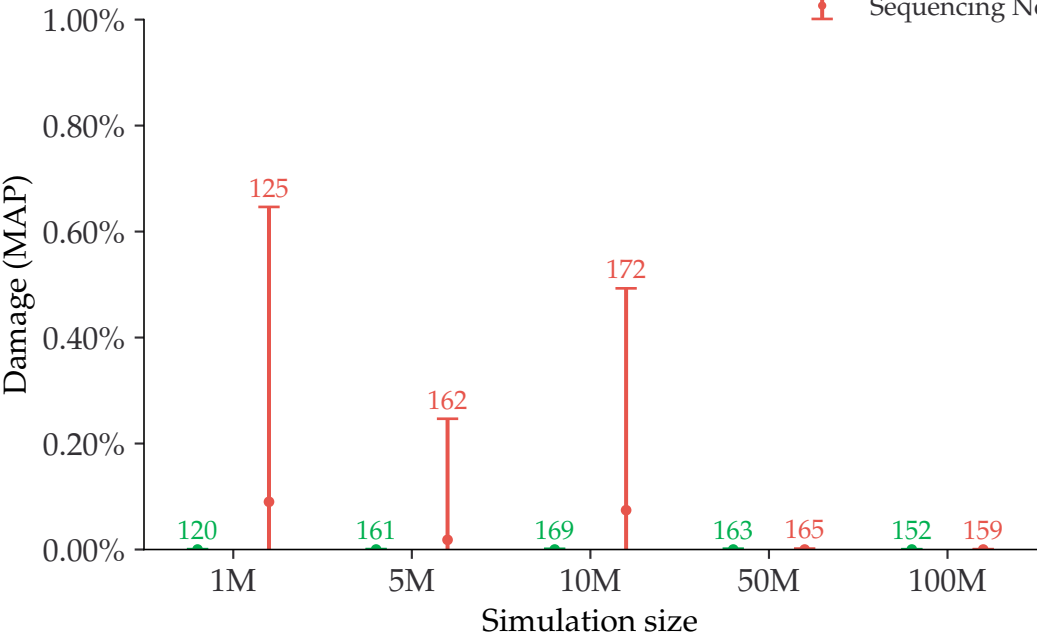
Non-ancient



Fragmentation



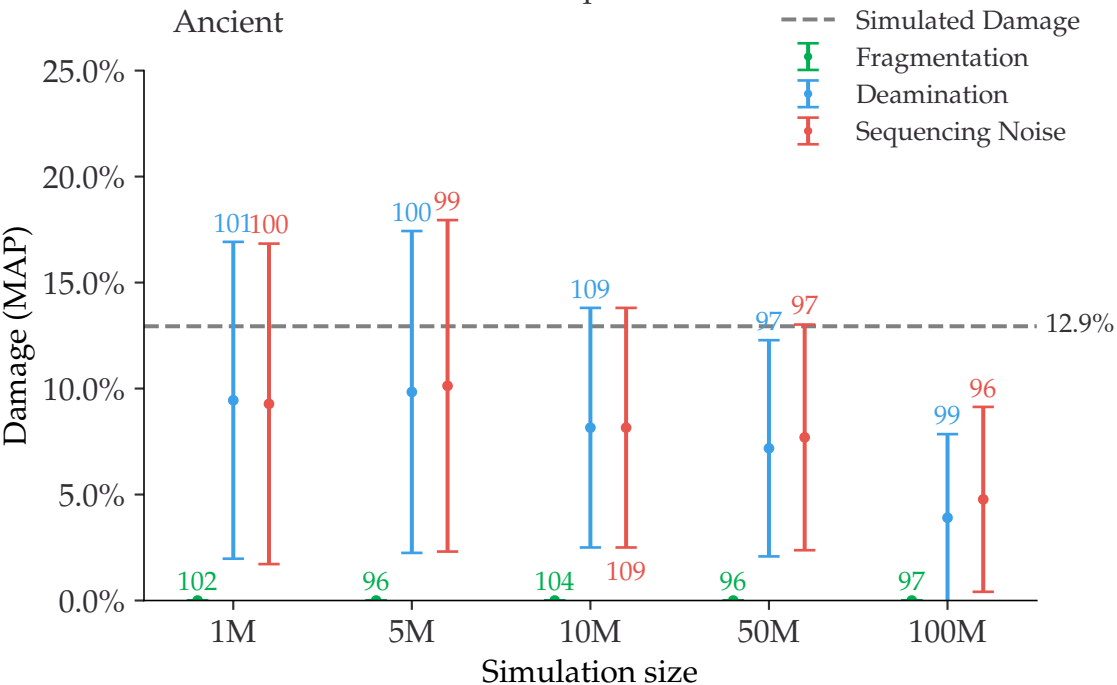
Sequencing Noise



Cave-102

Tax ID: 105737, s\_\_UBA1367 sp900314645

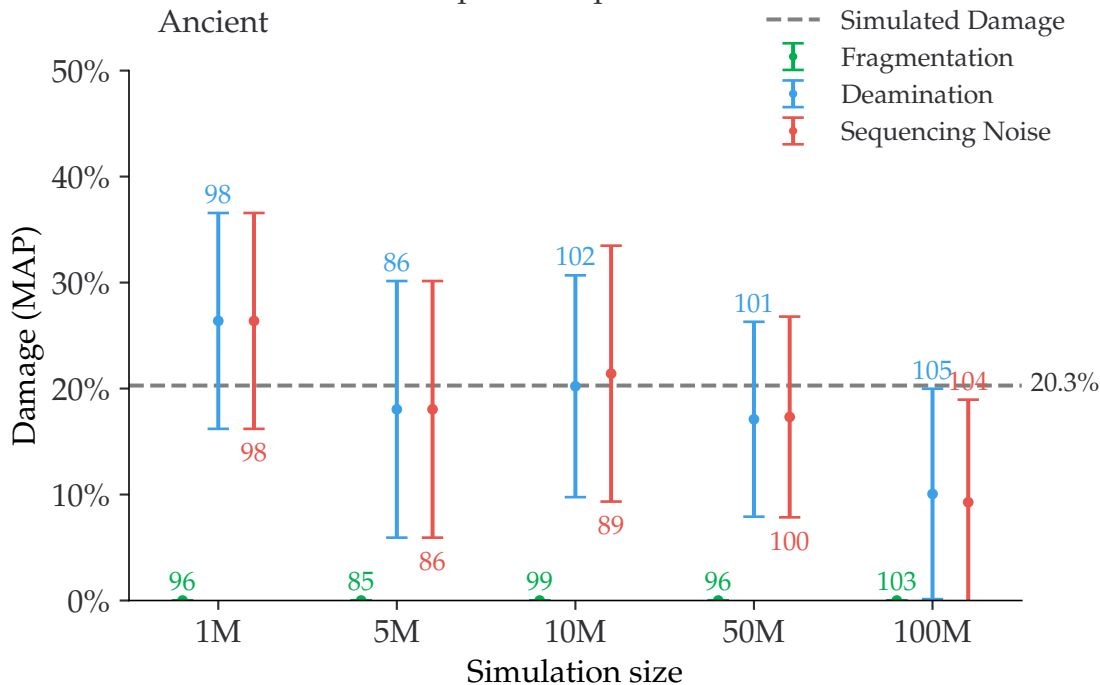
Ancient



Cave-102

Tax ID: 117333, s\_\_Treponema sp000775995

Ancient

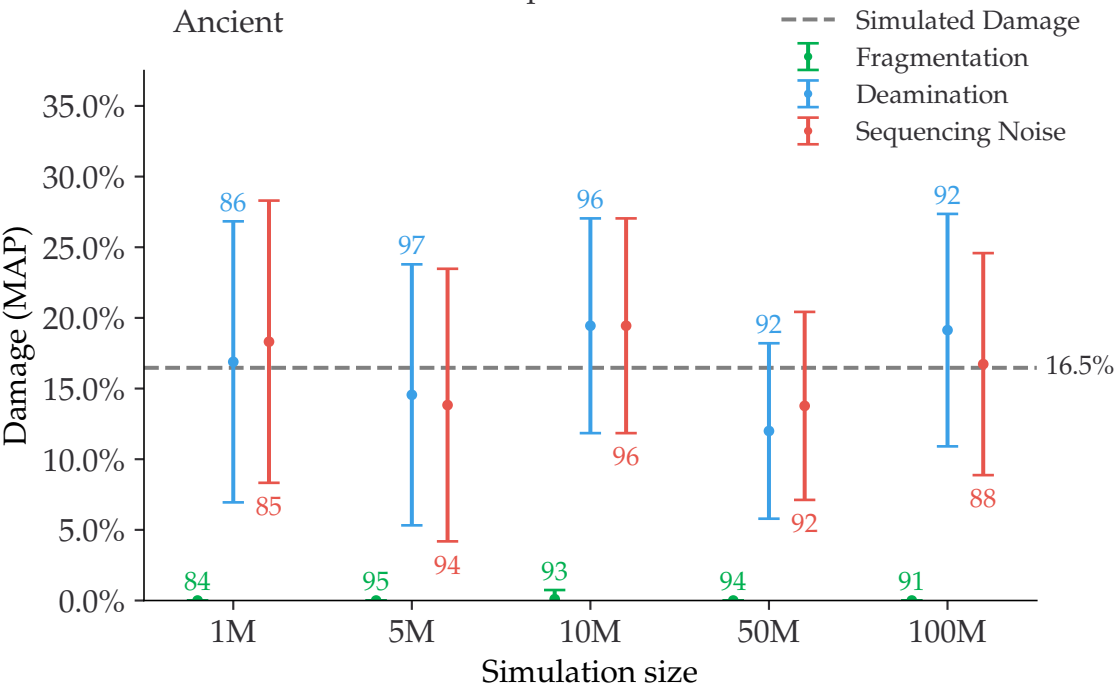




Cave-102

Tax ID: 126085, s\_\_Chitiniphilus eburneus

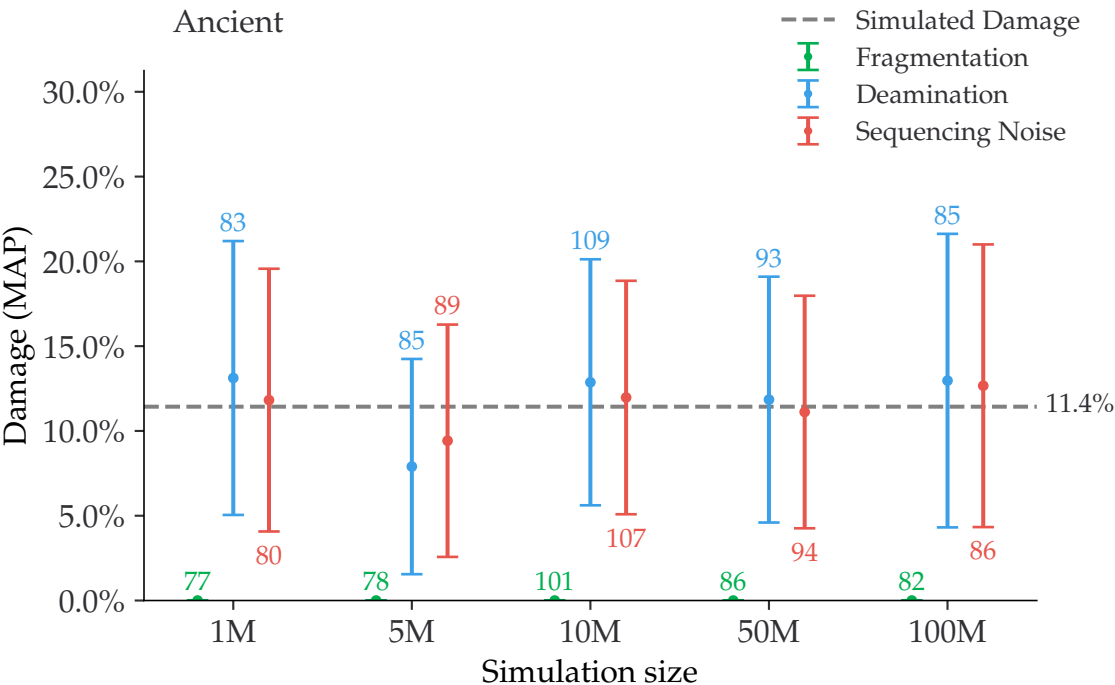
Ancient



Cave-102

Tax ID: 120450, s\_\_Halomonas aestuarii

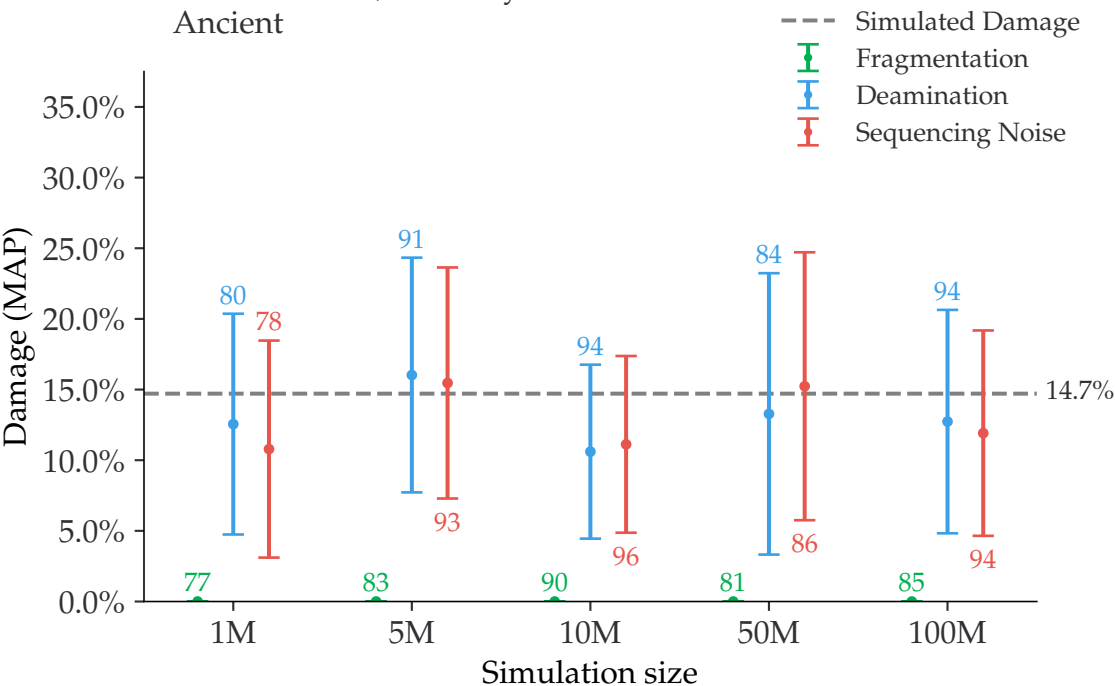
Ancient



Cave-102

Tax ID: 113852, s\_\_Methyloversatilis universalis

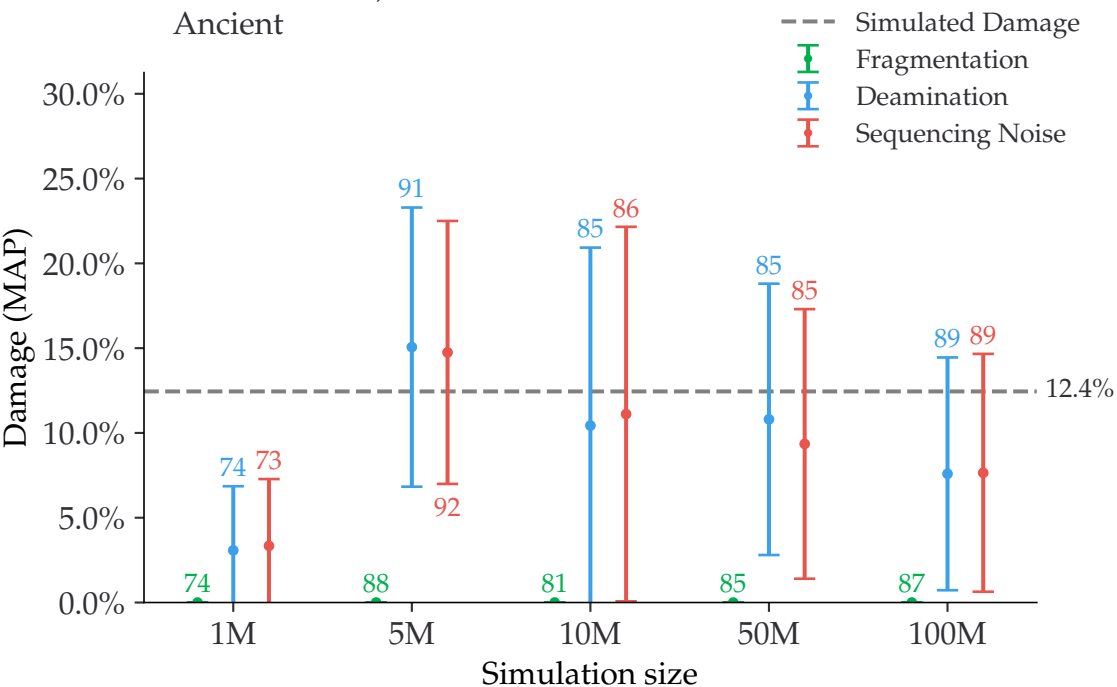
Ancient



Cave-102

Tax ID: 126420, s\_\_Arenimonas terrae

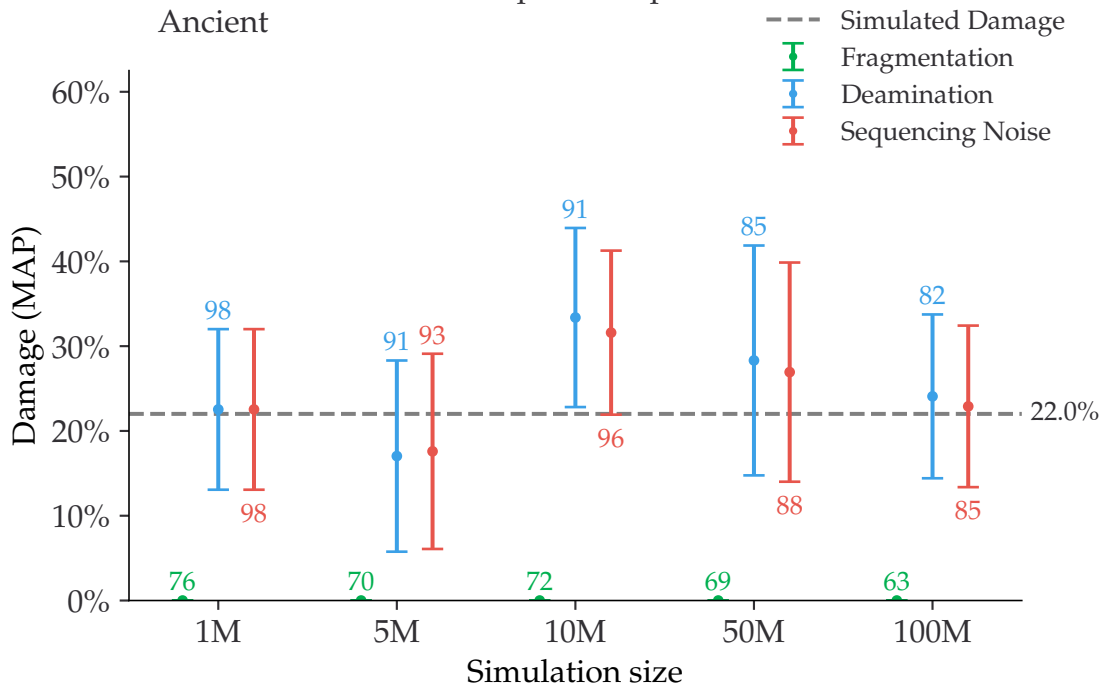
Ancient



Cave-102

Tax ID: 118100, s\_\_Haemophilus\_D parainfluenzae\_N

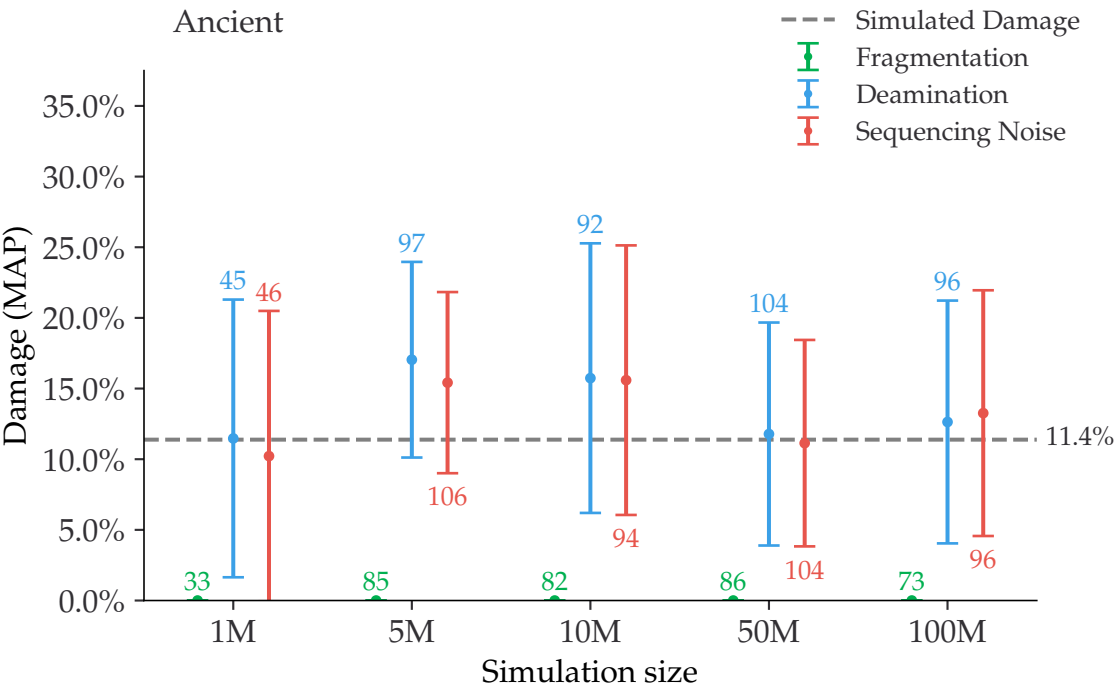
Ancient



Cave-102

Tax ID: 132814, s\_\_Achromobacter insuavis

Ancient

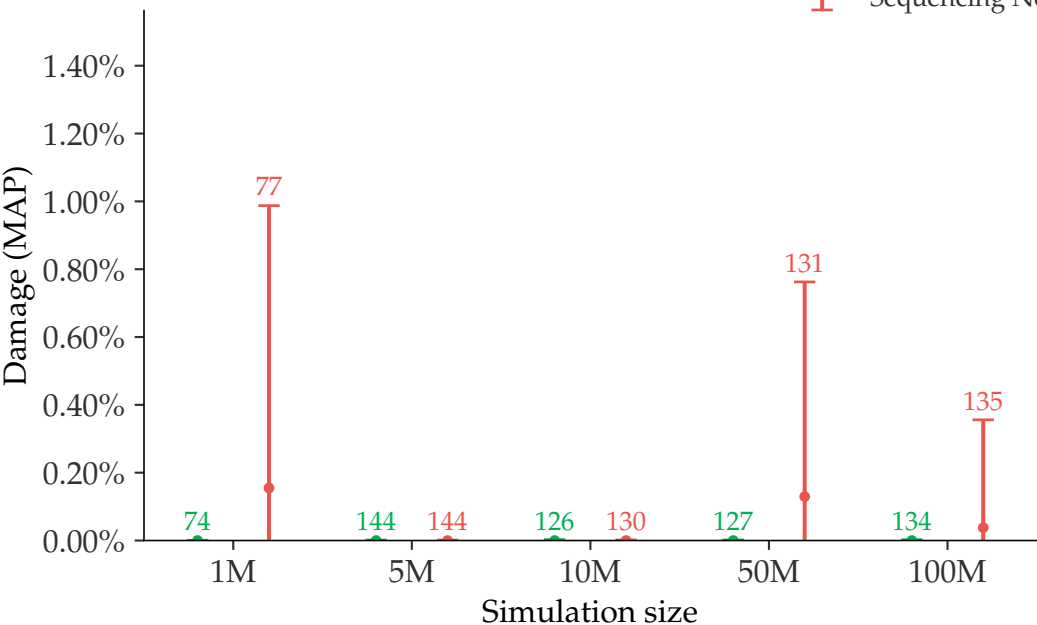


Cave-102

Tax ID: 80314, s\_\_*Ralstonia pickettii*\_B

Non-ancient

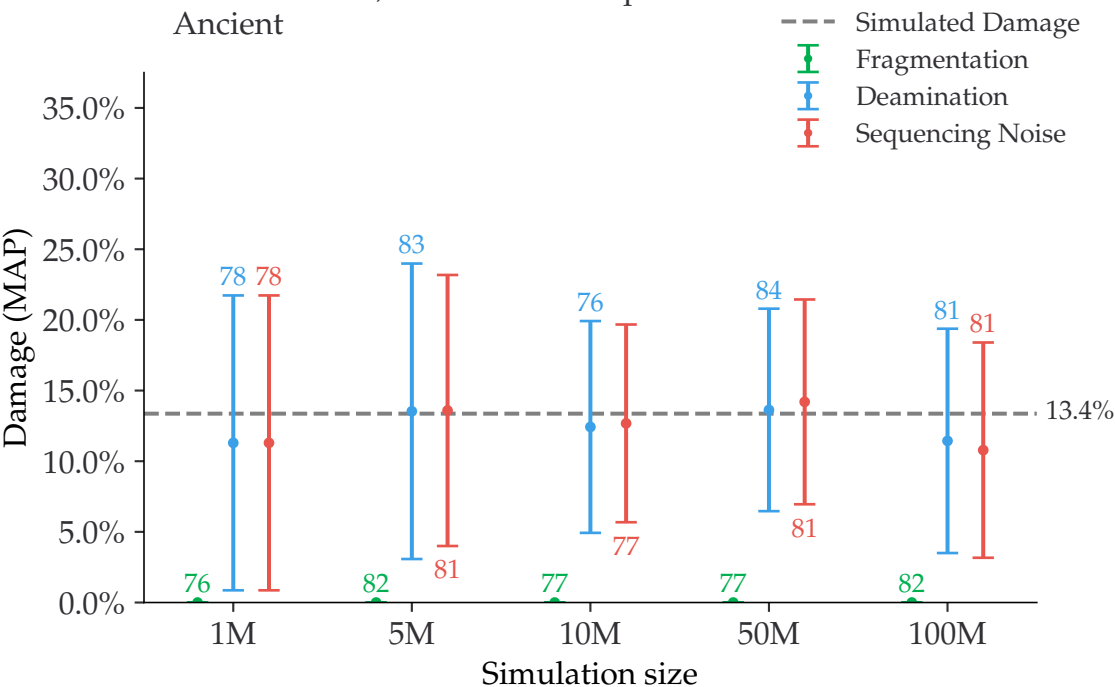
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 111527, s\_\_CAINMN01 sp903850735

Ancient

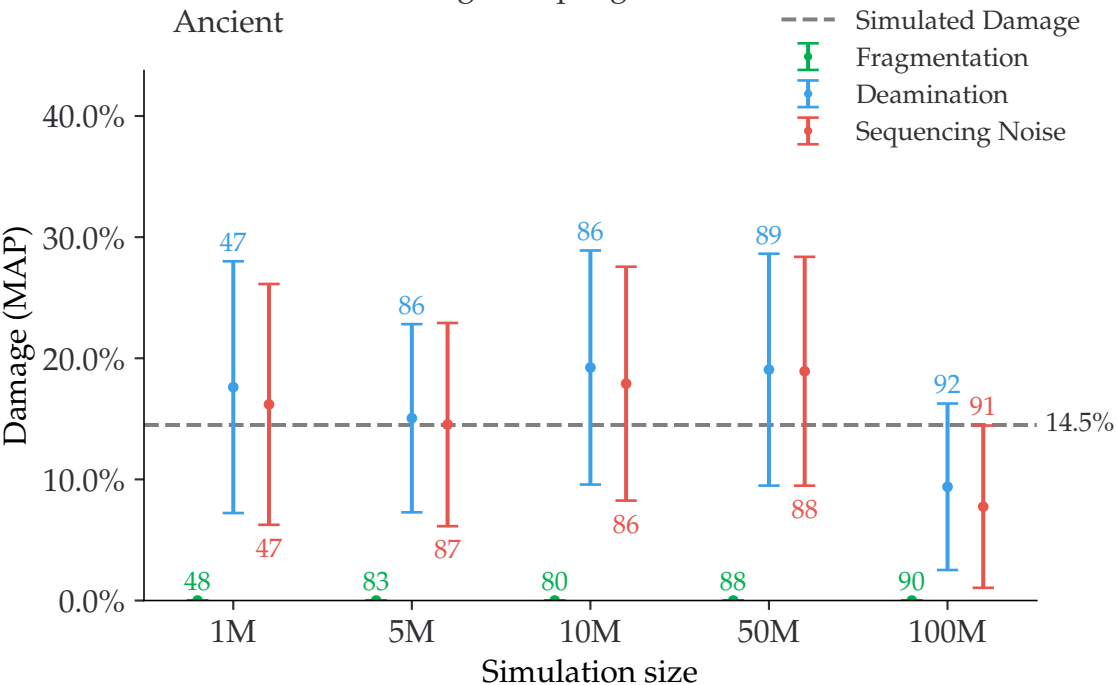




Cave-102

Tax ID: 129542, s\_Pigmentiphaga litoralis\_A

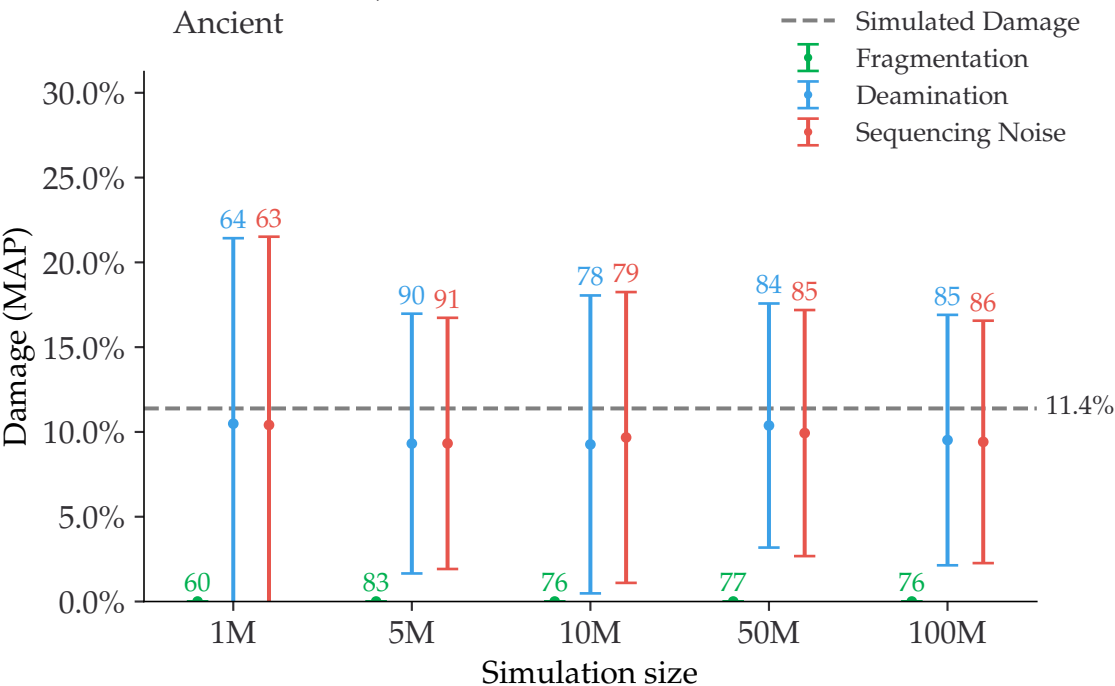
Ancient



Cave-102

Tax ID: 113189, s\_\_*Allochrotrium vinosum*

Ancient



Cave-102

Tax ID: 116510, s\_\_Paraburkholderia ferrariae

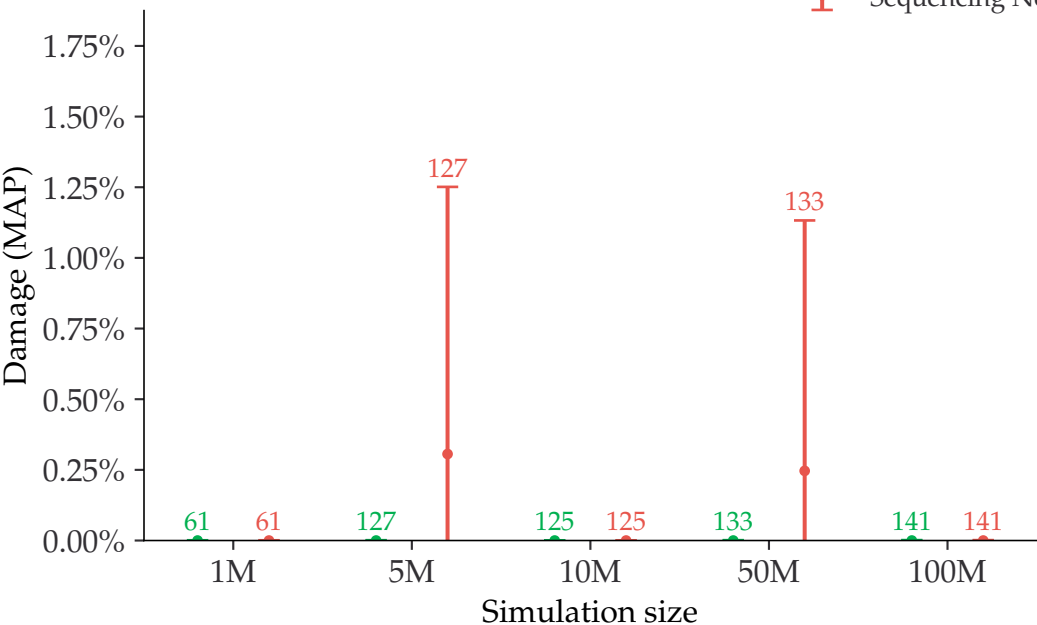
Non-ancient



Fragmentation



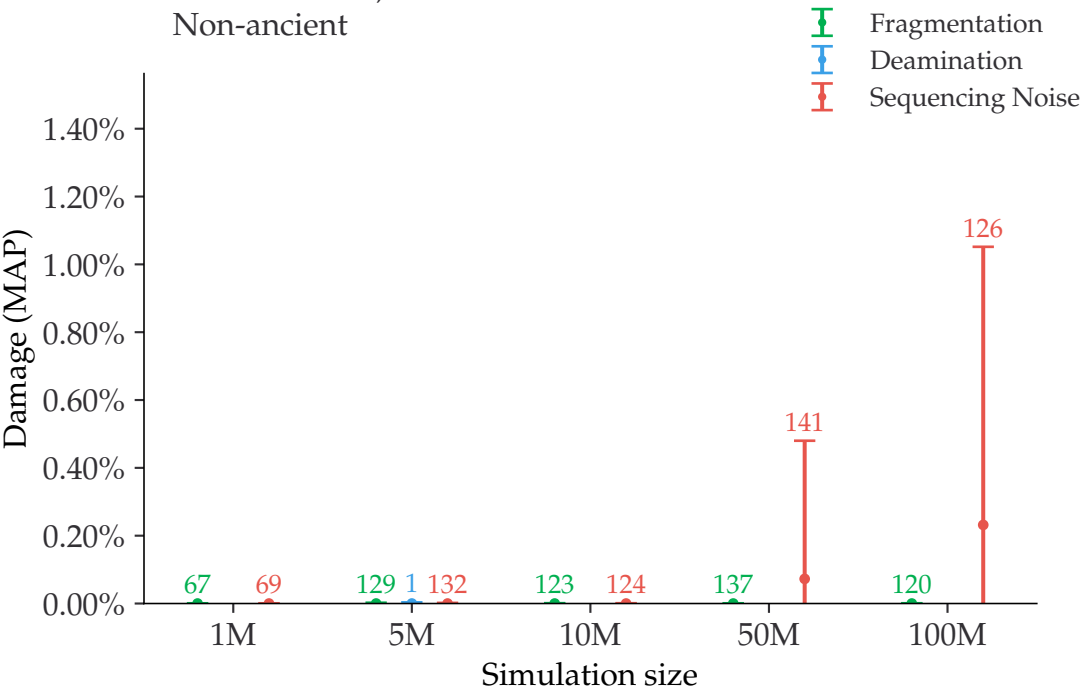
Sequencing Noise



Cave-102

Tax ID: 119460, s\_\_Achromobacter denitrificans

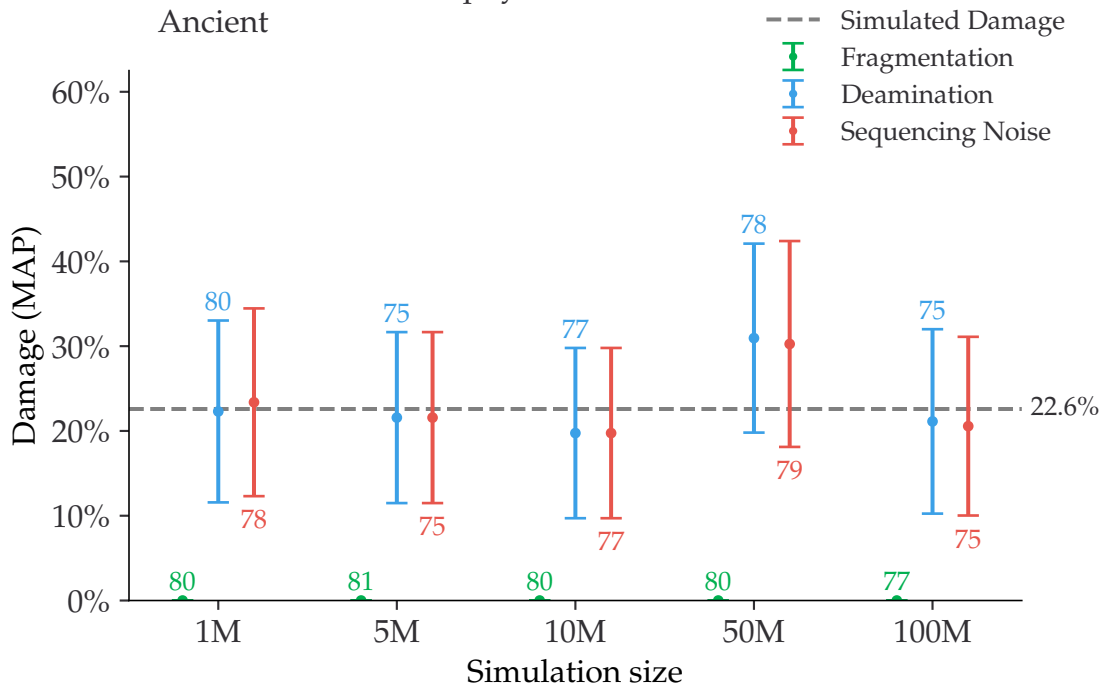
Non-ancient



Cave-102

Tax ID: 114694, s\_\_Porphyromonas catoniae

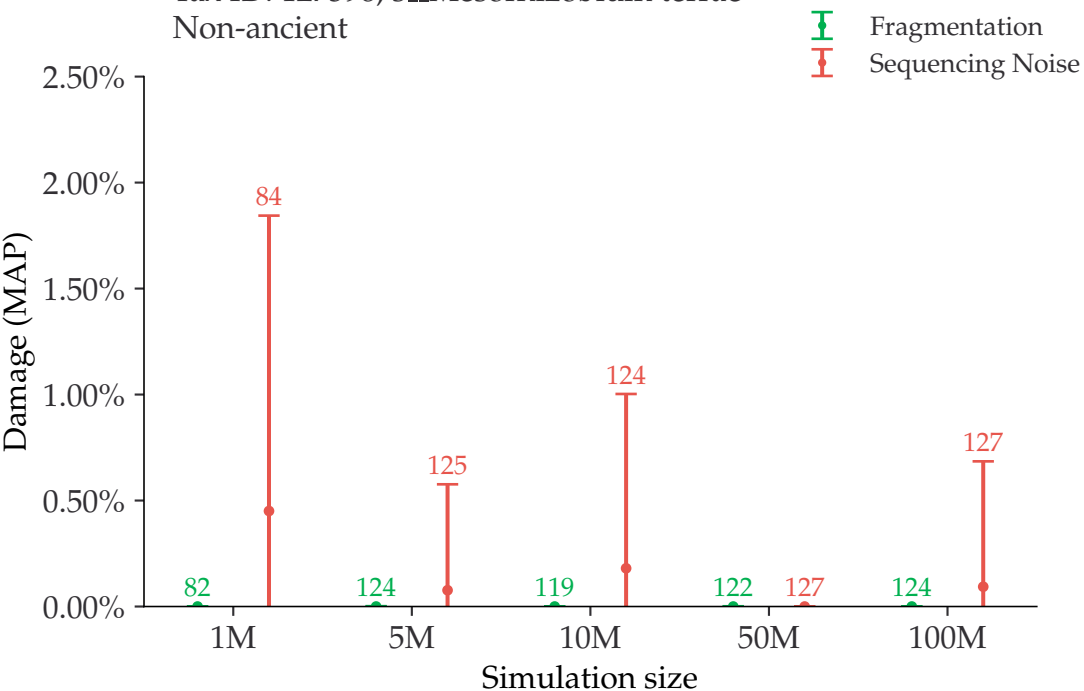
Ancient



Cave-102

Tax ID: 127398, s\_\_Mesorhizobium terrae

Non-ancient

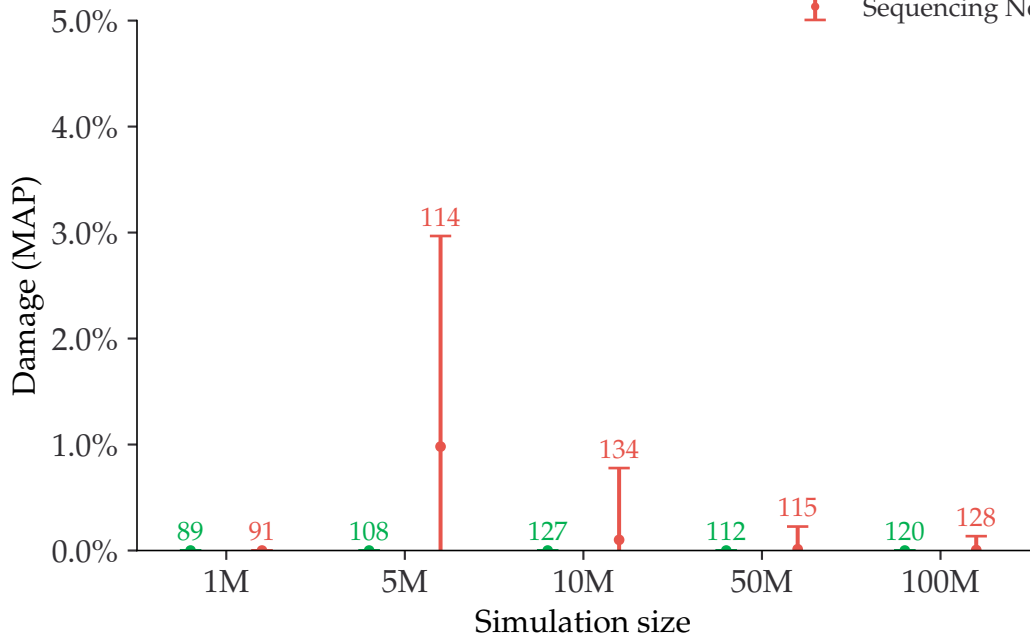


Cave-102

Tax ID: 124618, s\_\_Citrobacter youngae

Non-ancient

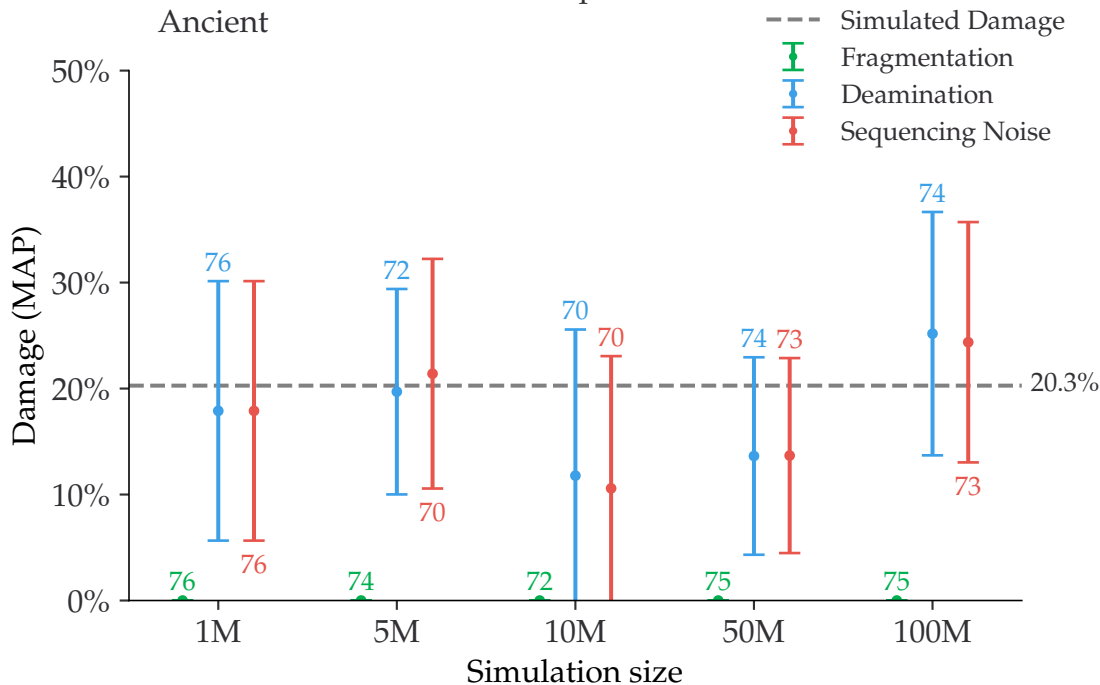
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 106725, s\_\_UMGS973 sp900547295

Ancient

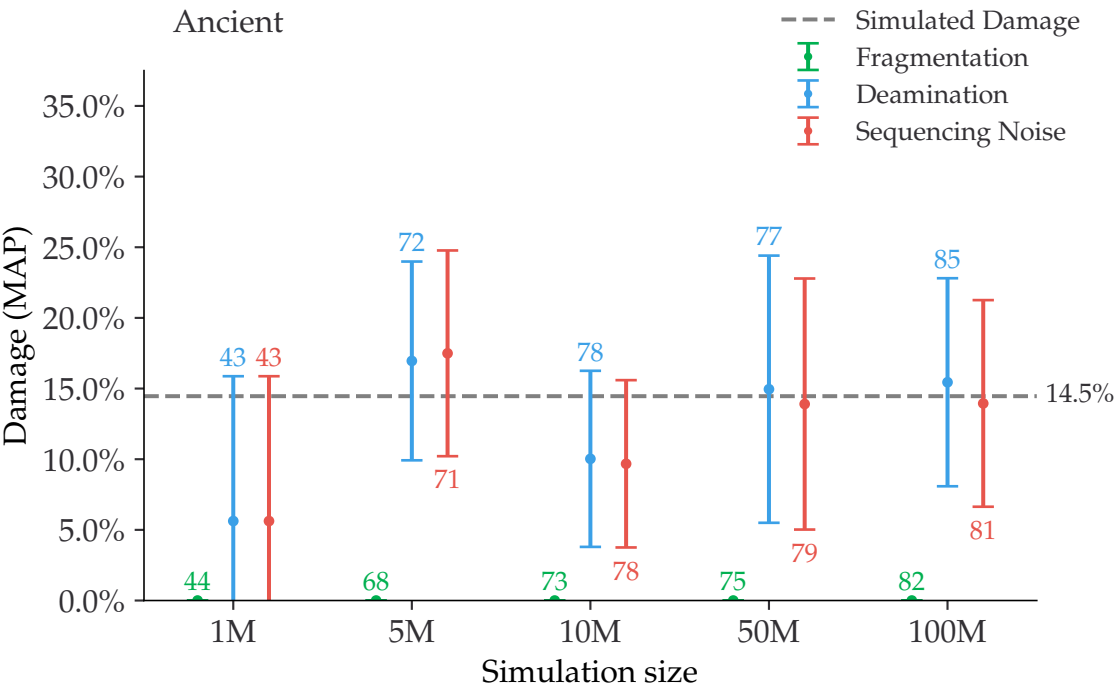




Cave-102

Tax ID: 123700, s\_\_Paraburkholderia kururiensis\_A

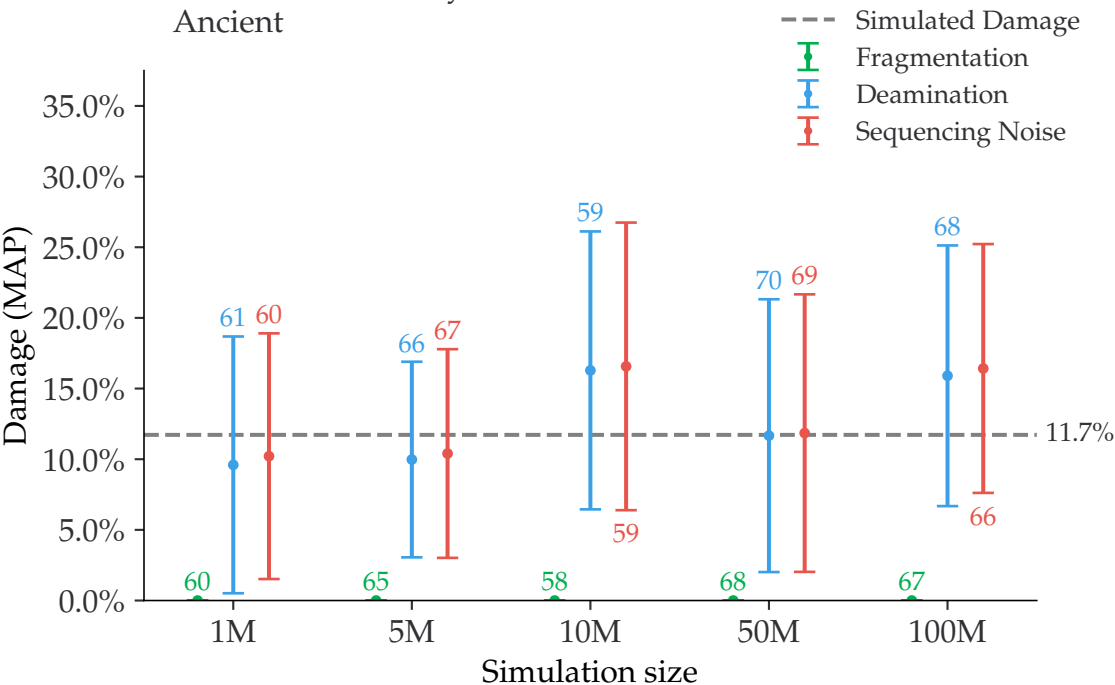
Ancient



Cave-102

Tax ID: 117307, s\_\_Lysobacter\_A dokdonensis

Ancient



Cave-102

Tax ID: 107069, s\_\_Veillonella sp900552445

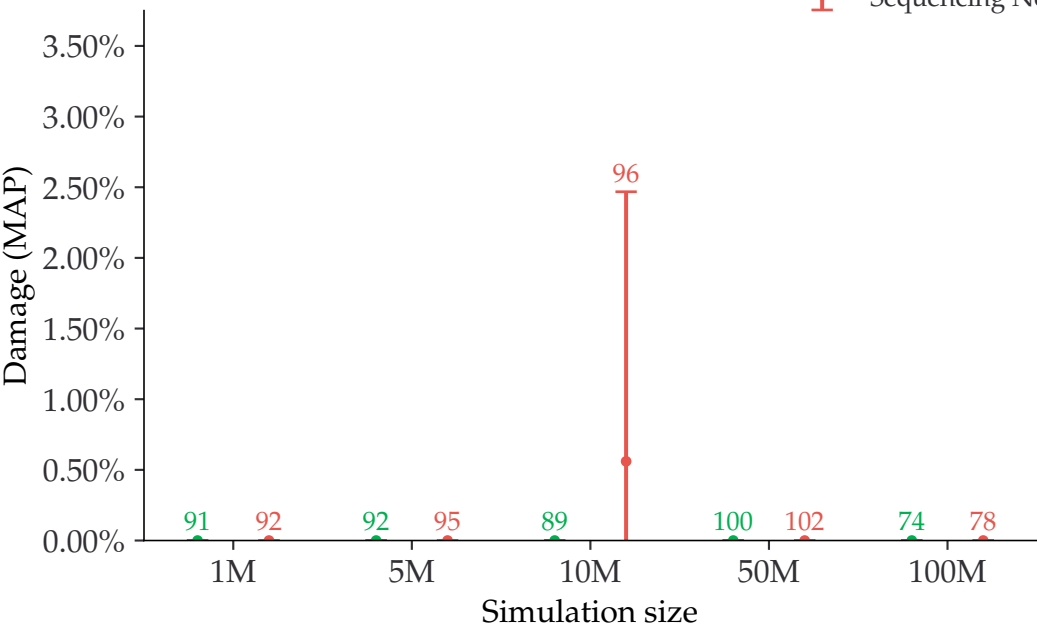
Non-ancient



Fragmentation



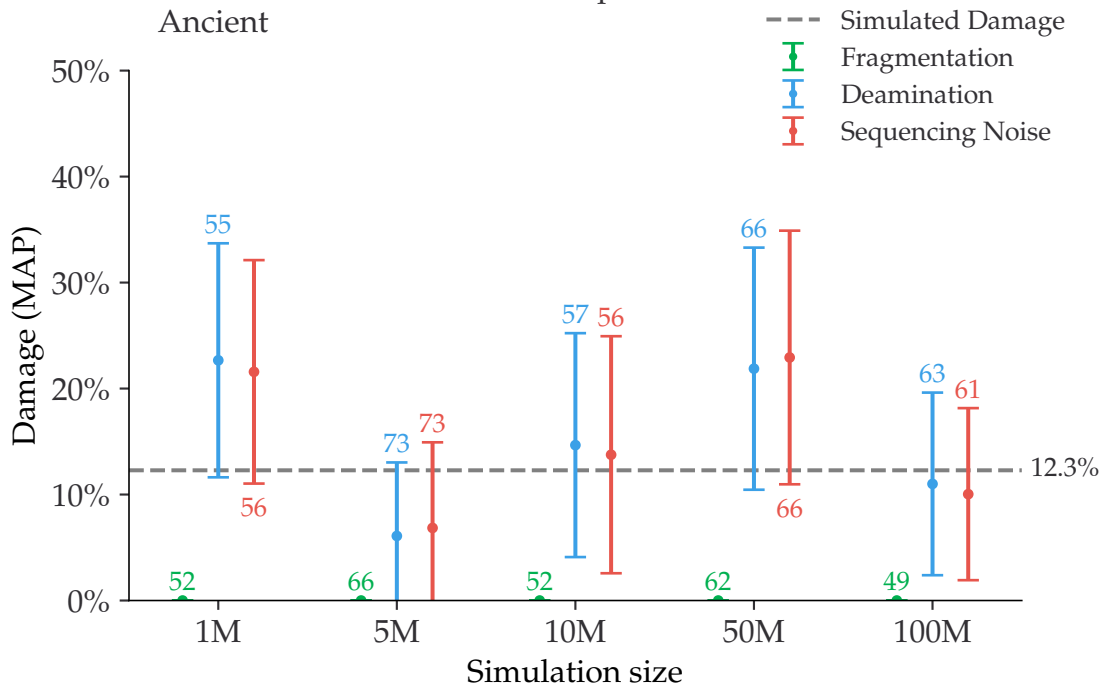
Sequencing Noise



Cave-102

Tax ID: 107630, s\_\_Olsenella\_B sp900768455

Ancient

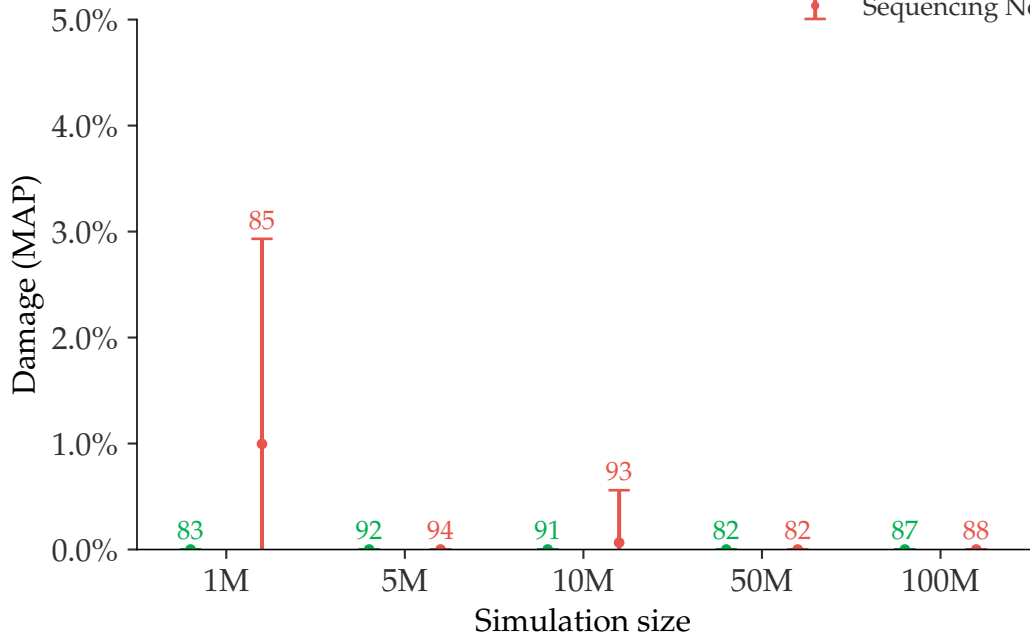


Cave-102

Tax ID: 127578, s\_\_Halomonas sp009363755

Non-ancient

Fragmentation  
Sequencing Noise

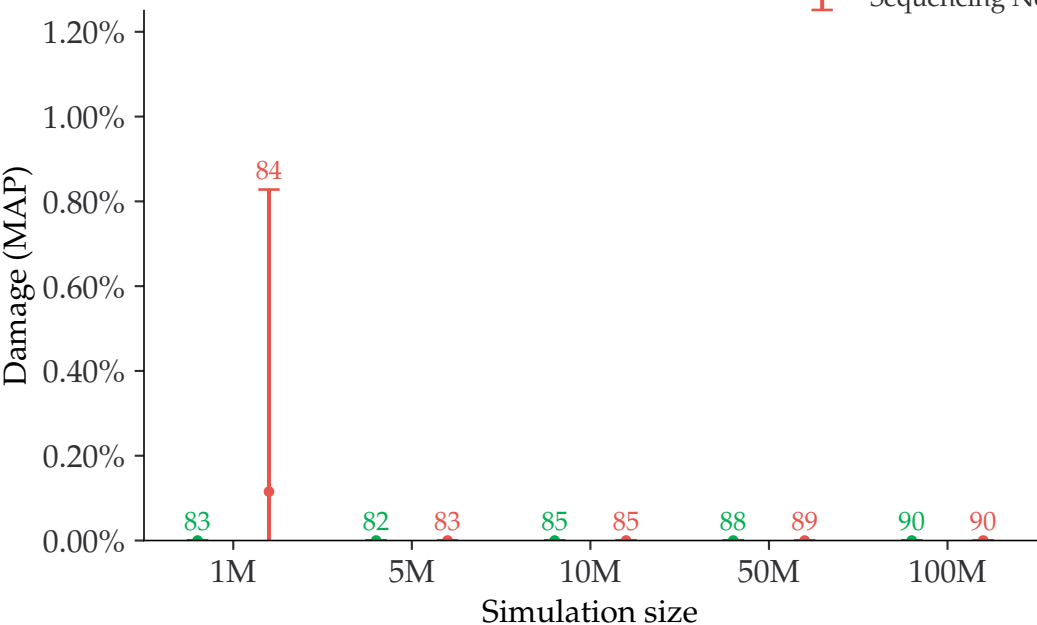


Cave-102

Tax ID: 101517, s\_\_Azonexus sp012026885

Non-ancient

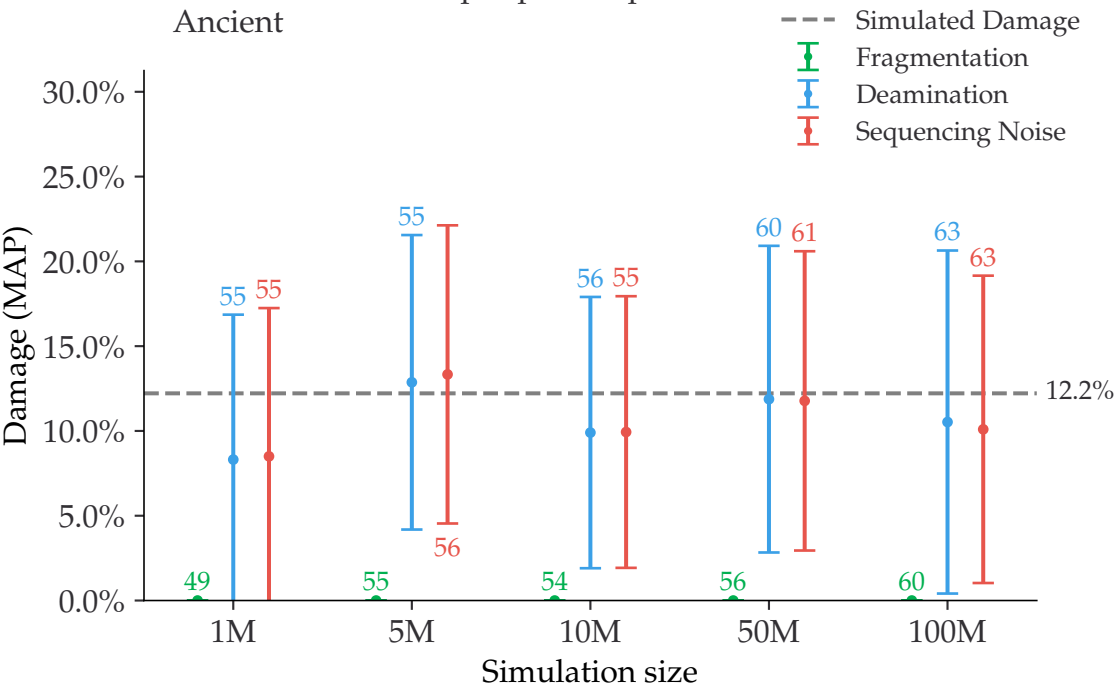
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 126678, s\_\_Tepidiphilus sp006980785

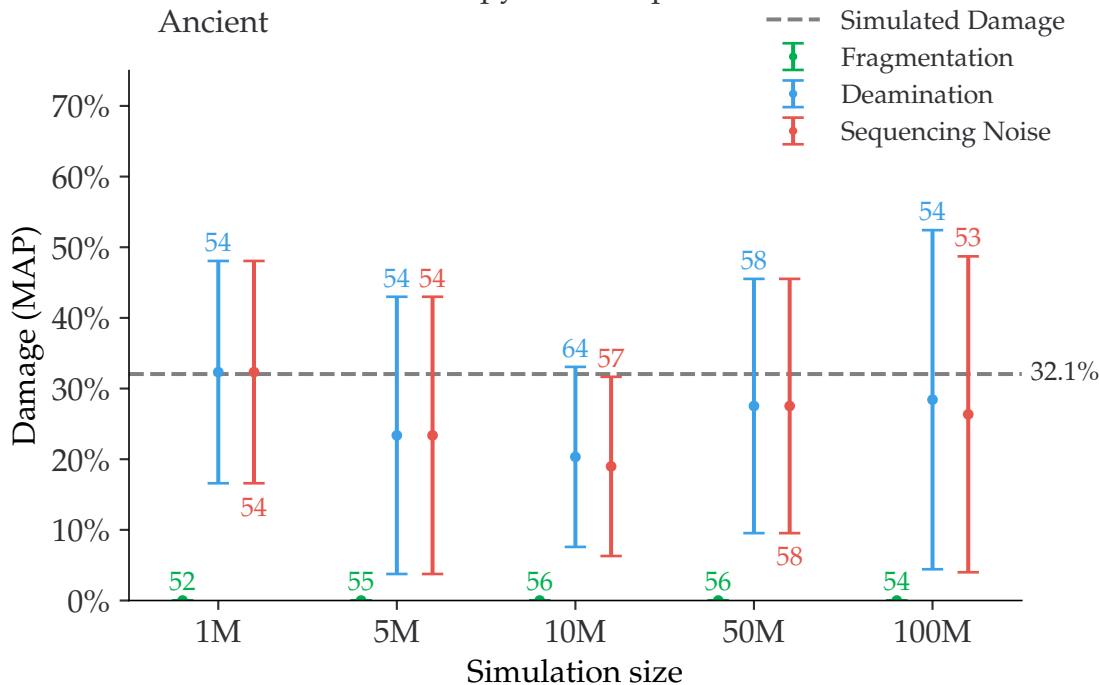
Ancient



Cave-102

Tax ID: 121157, s\_\_Campylobacter sp002139855

Ancient

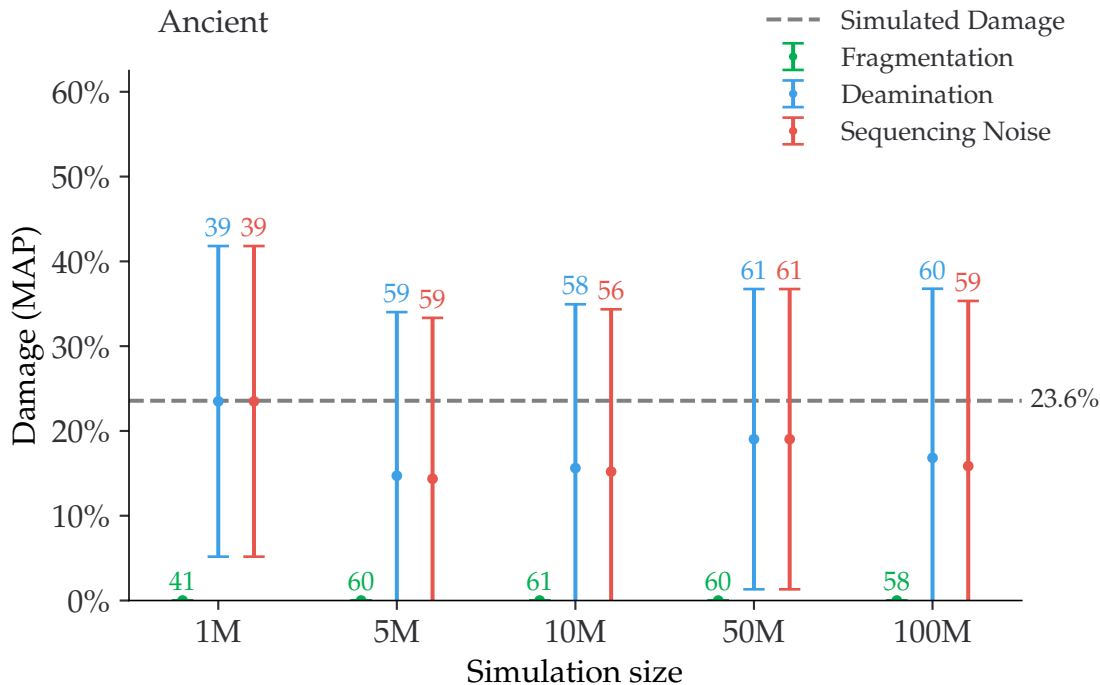




Cave-102

Tax ID: 80931, *s\_\_Barnesiella viscericola*

Ancient



Cave-102

Tax ID: 114016, s\_\_Pseudoxanthomonas\_A spadix

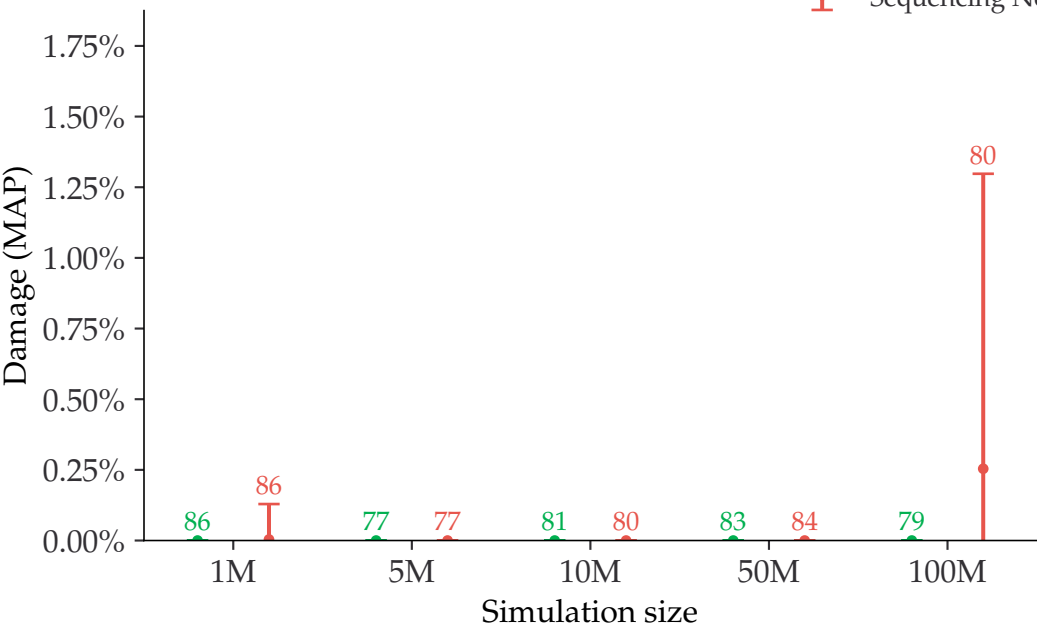
Non-ancient



Fragmentation



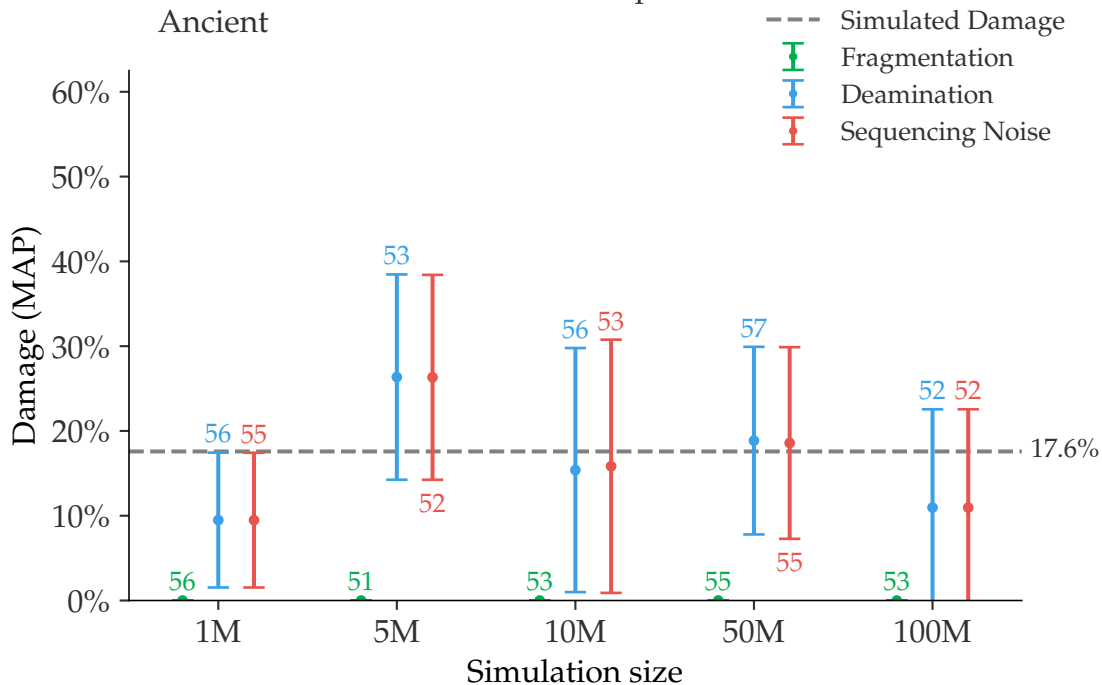
Sequencing Noise



Cave-102

Tax ID: 128104, s\_\_Nitrosomonas sp009833125

Ancient

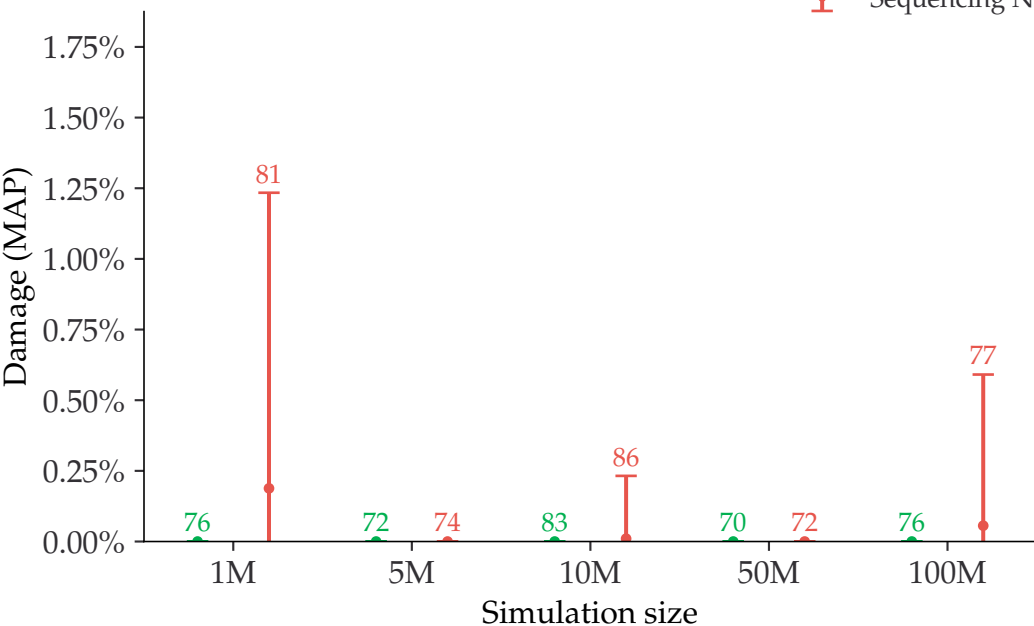


Cave-102

Tax ID: 117778, s\_\_Paracoccus marcusii

Non-ancient

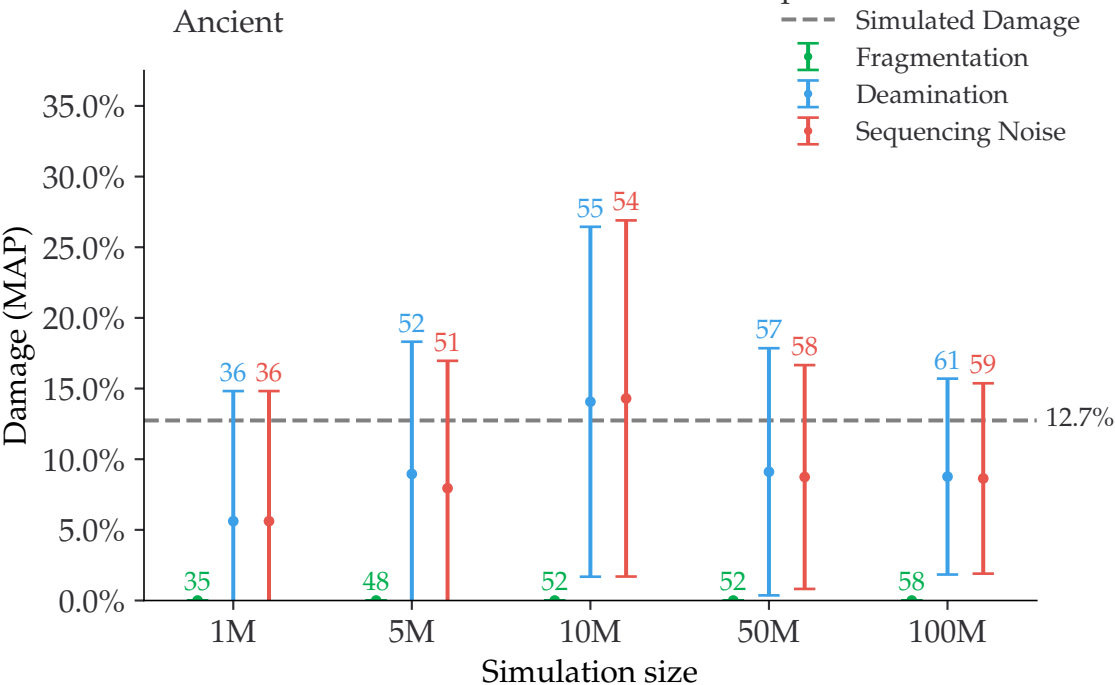
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 125354, s\_\_Pseudoxanthomonas\_A spadix\_A

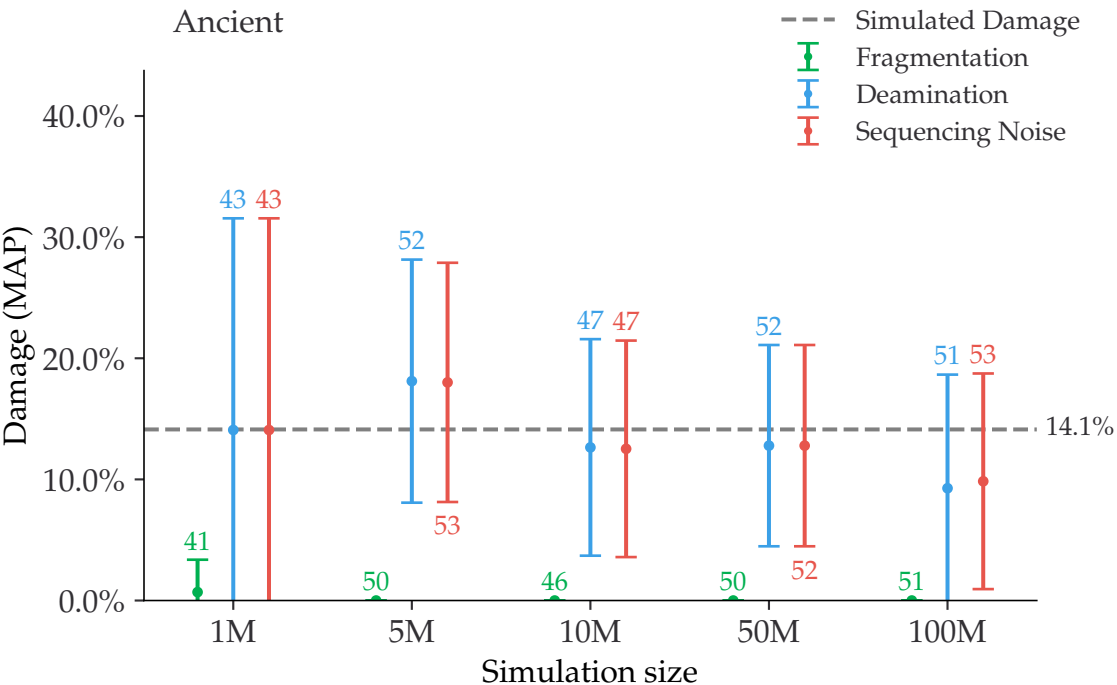
Ancient



Cave-102

Tax ID: 76194, s\_\_Caballeronia calva

Ancient

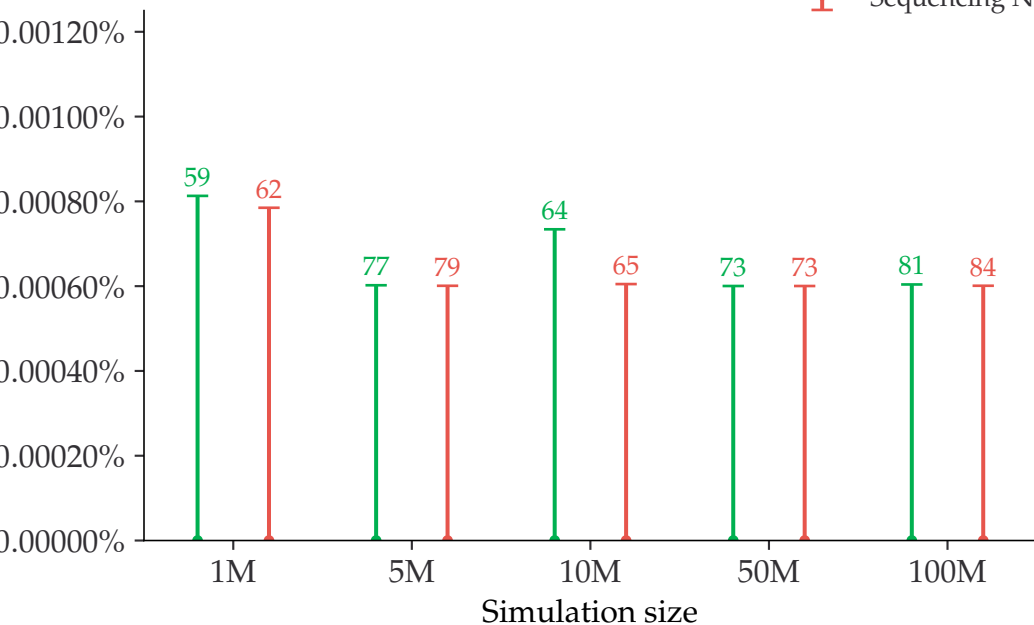


Cave-102

Tax ID: 118654, s\_\_Methylobacterium sp001422375

Non-ancient

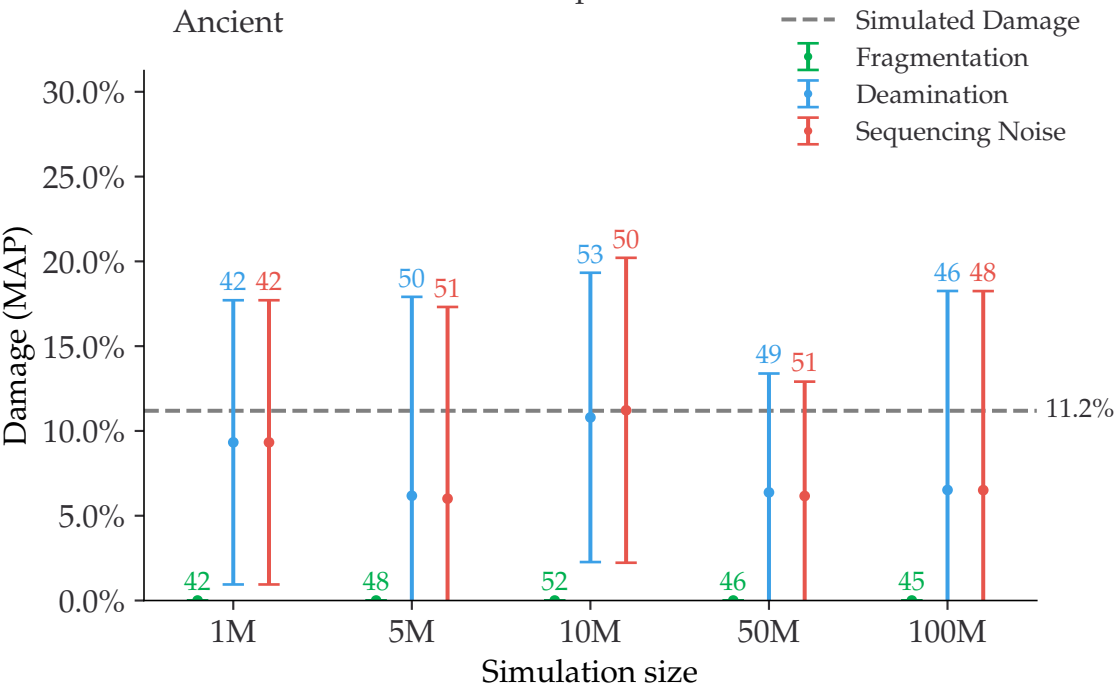
Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 87159, *s\_\_Azonexus* sp002842145

Ancient





Cave-102

Tax ID: 80191, *s\_\_Flavobacterium frigidimaris*

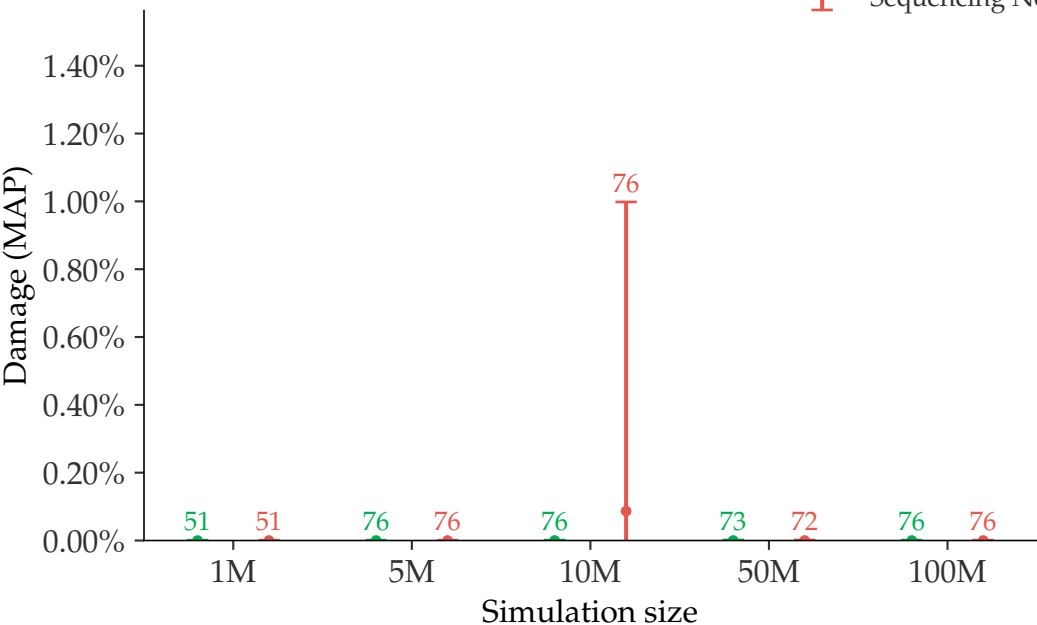
Non-ancient



Fragmentation



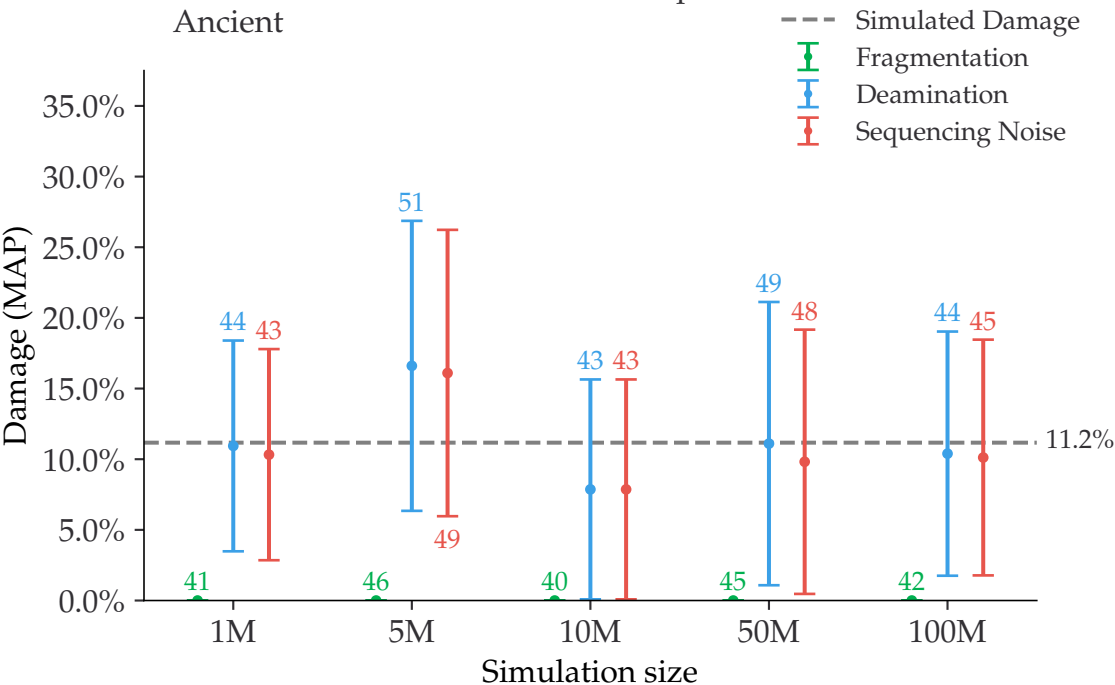
Sequencing Noise



Cave-102

Tax ID: 115094, s\_Thioalkalivibrio sp000377405

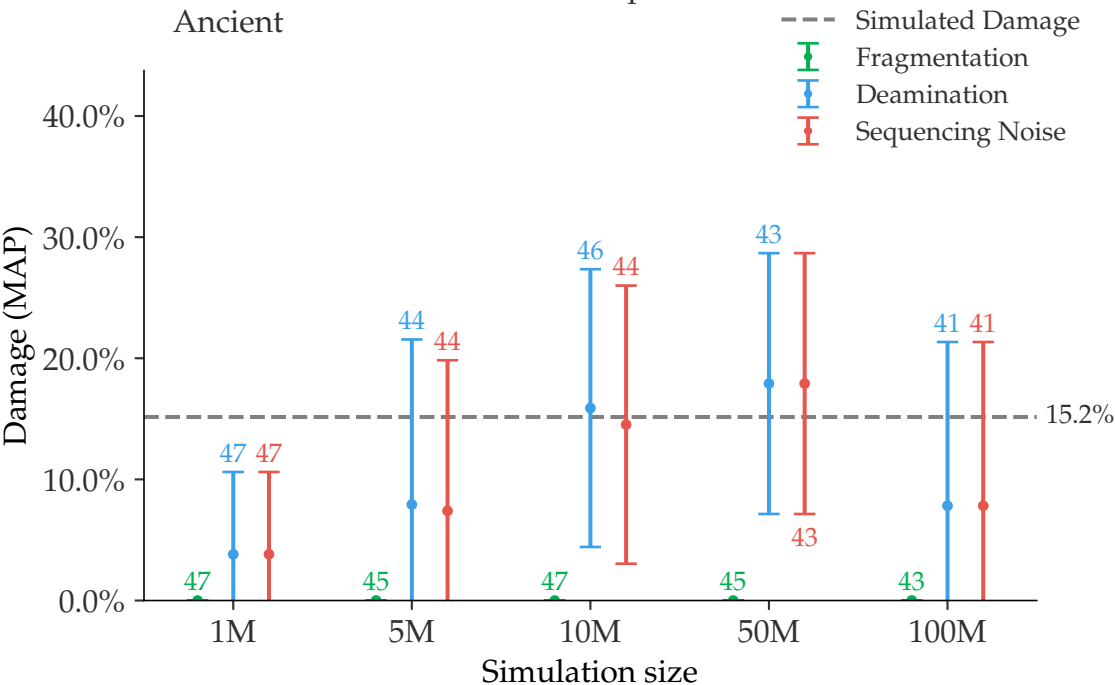
Ancient



Cave-102

Tax ID: 82057, *s\_\_Sulfurivermis* sp002376325

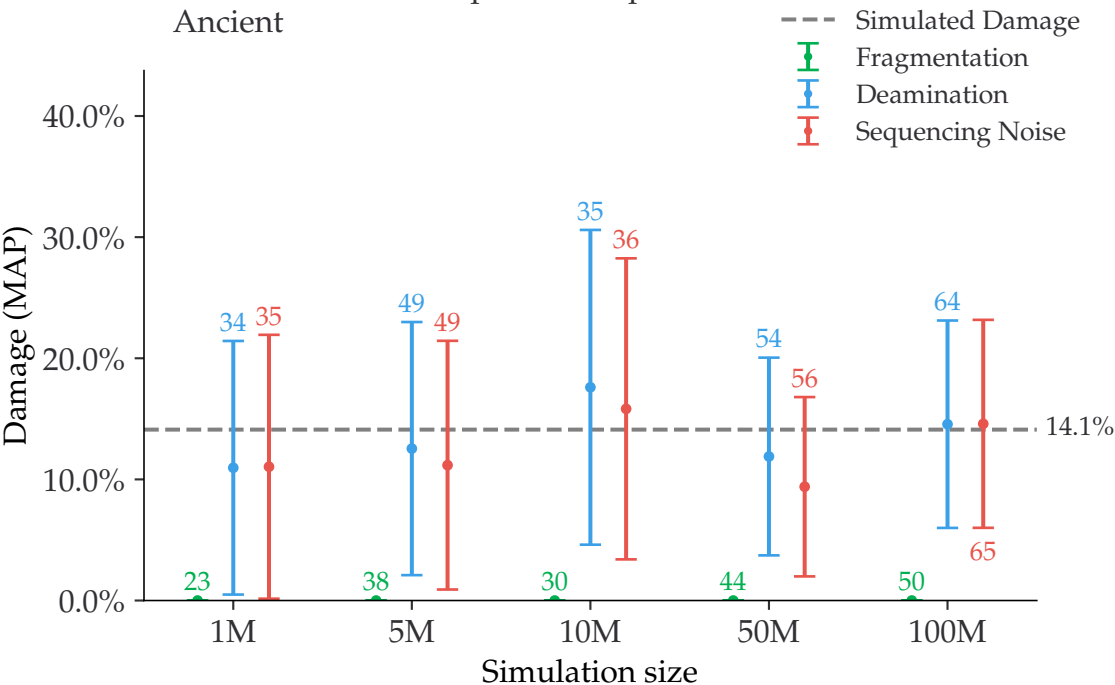
Ancient



Cave-102

Tax ID: 103855, s\_\_Cupriavidus sp013361545

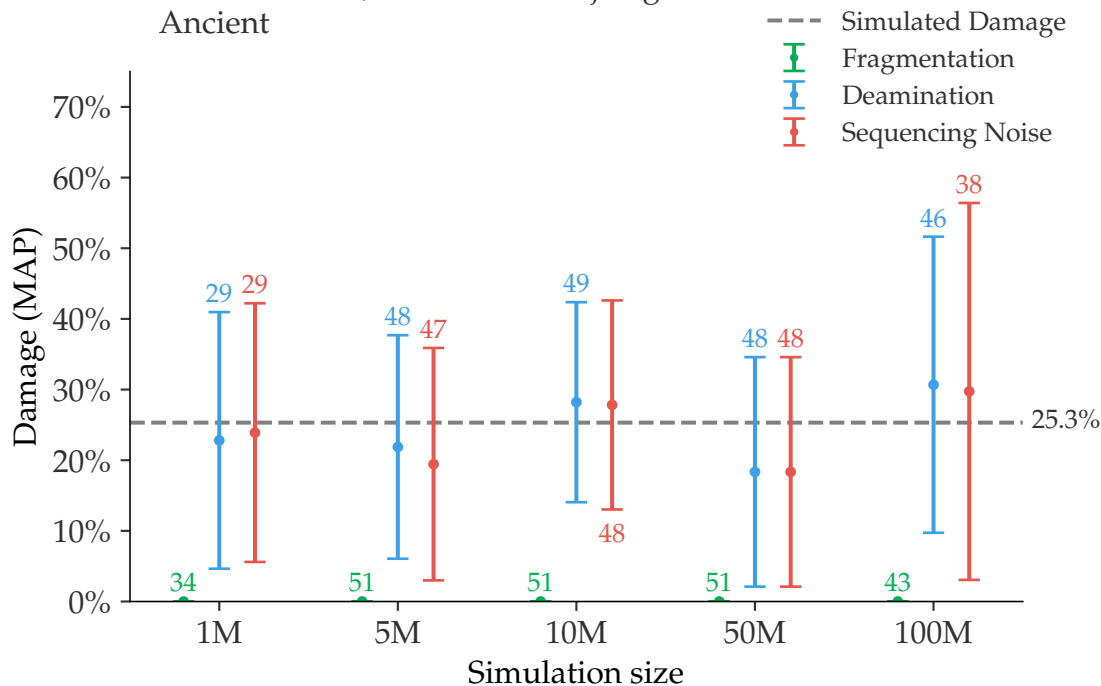
Ancient



Cave-102

Tax ID: 119681, s\_\_Microbacter jiangxiensis

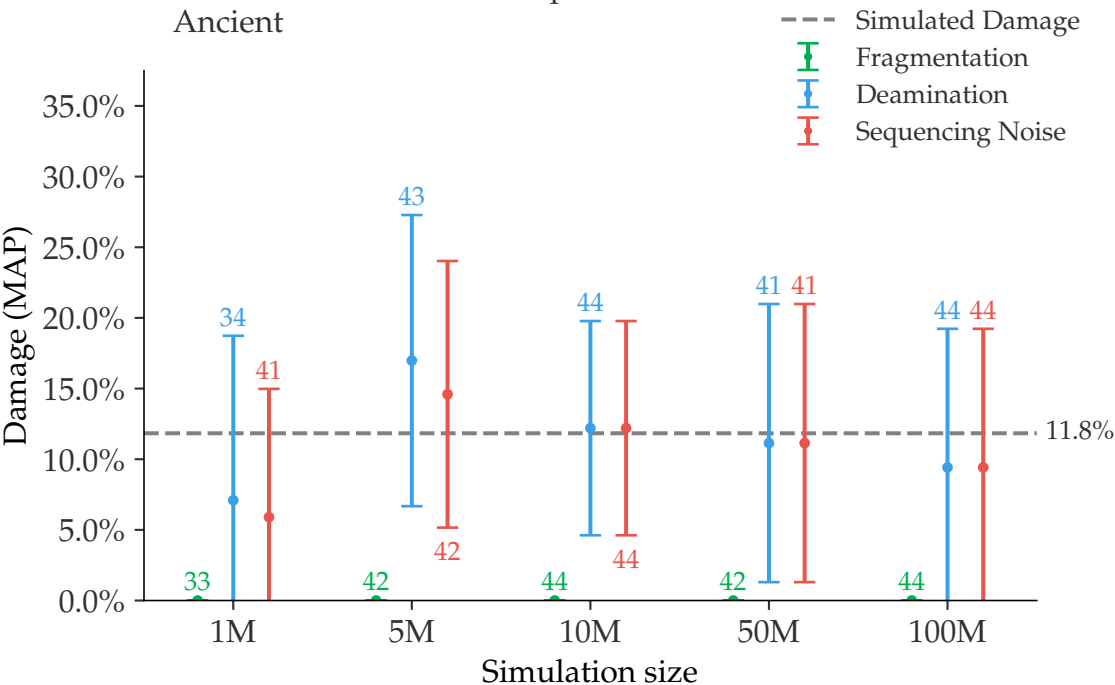
Ancient



Cave-102

Tax ID: 98302, s\_\_SKTG01 sp007121785

Ancient



Cave-102

Tax ID: 123028, s\_\_Cupriavidus alkaliphilus

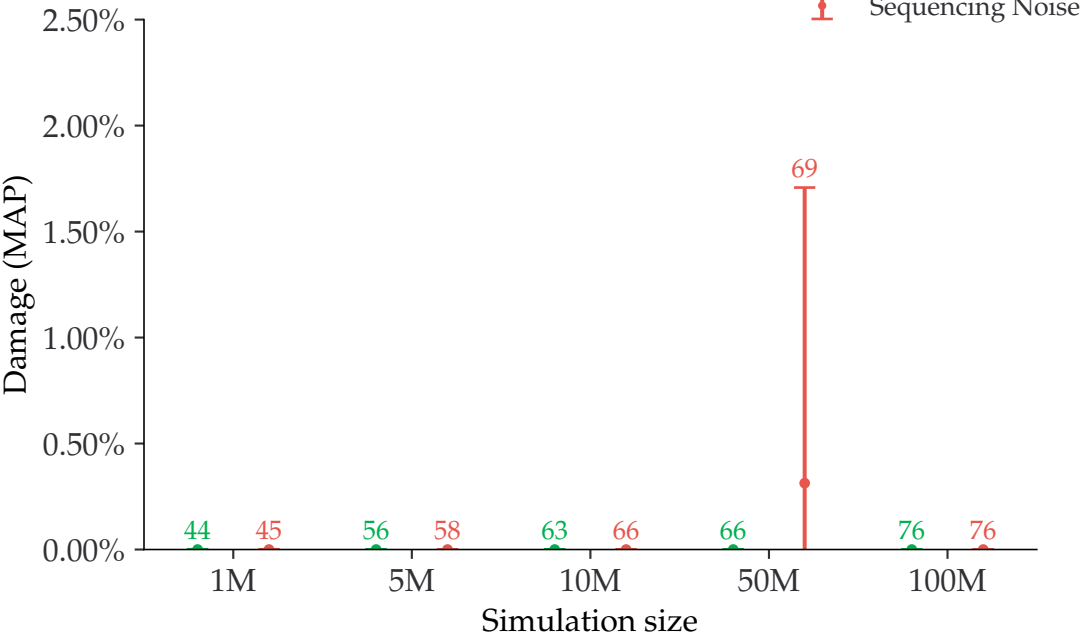
Non-ancient



Fragmentation



Sequencing Noise



Cave-102

Tax ID: 82905, s\_\_Rhodoferax sp002422455

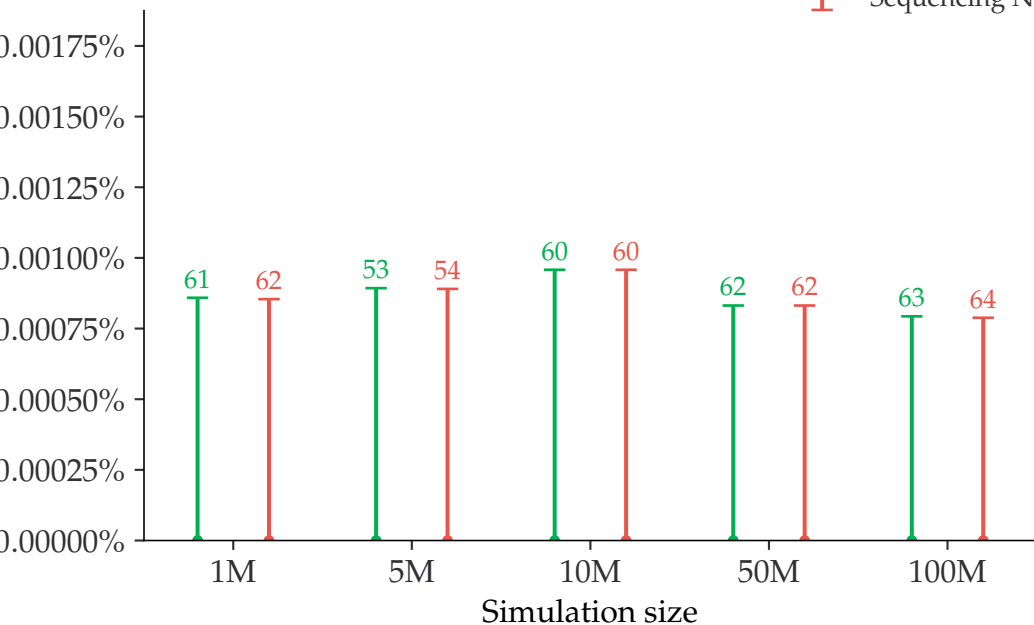
Non-ancient



Fragmentation



Sequencing Noise

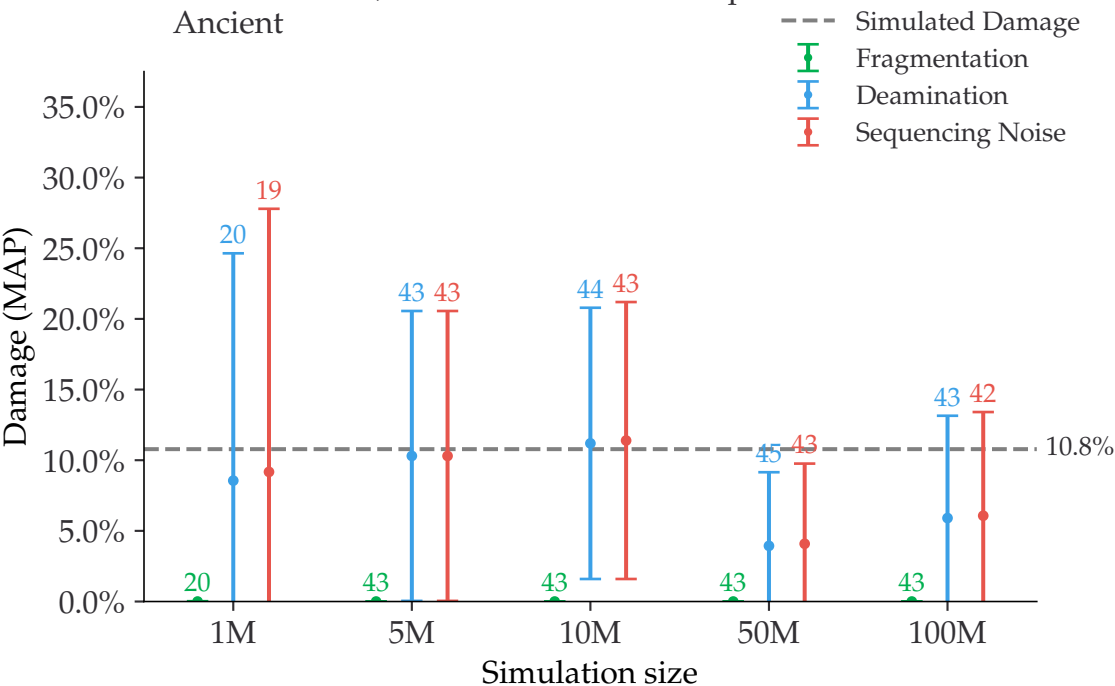




Cave-102

Tax ID: 119055, s\_\_Lacimicrobium alkaliphilum\_B

Ancient



Cave-102

Tax ID: 129095, s\_\_Novosphingobium sp014200275

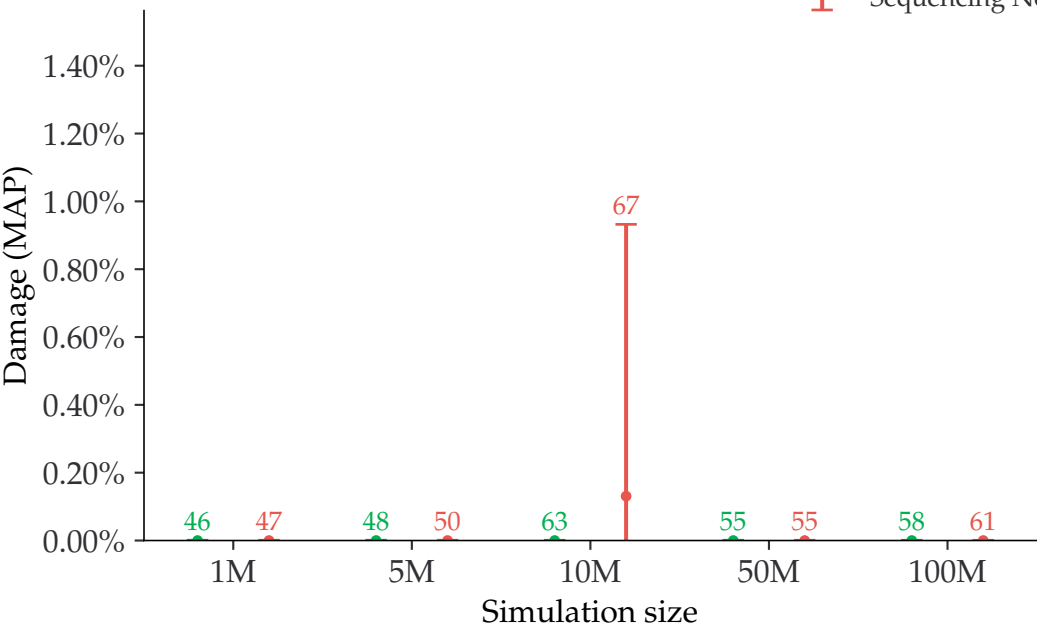
Non-ancient



Fragmentation



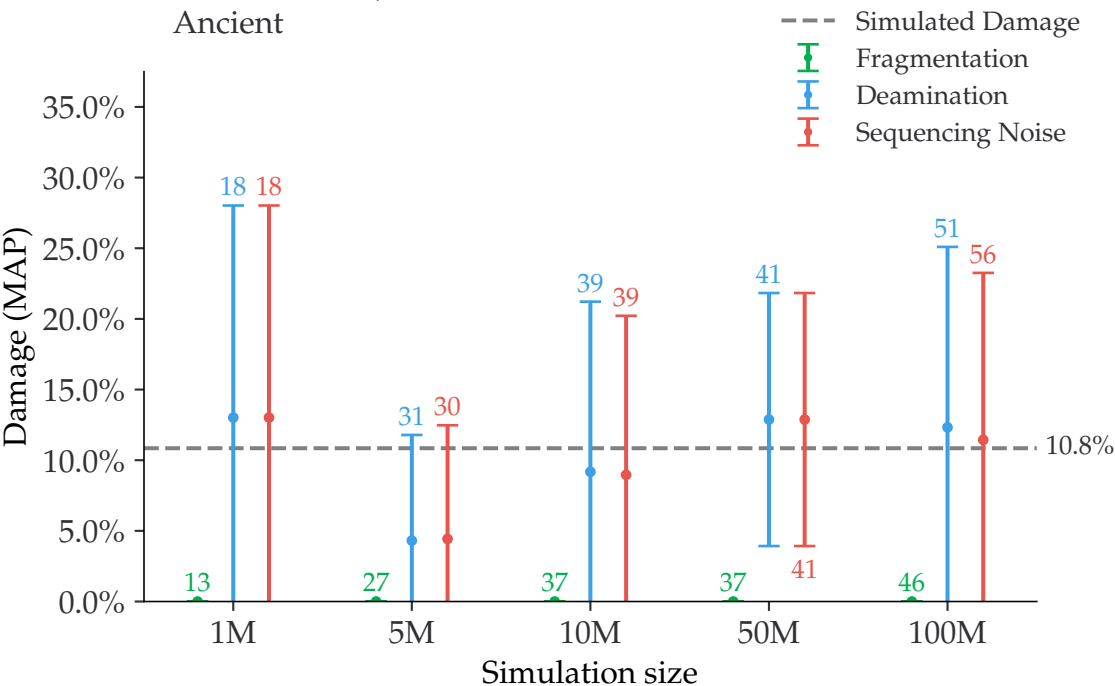
Sequencing Noise



Cave-102

Tax ID: 132808, s\_\_Burkholderia metallica

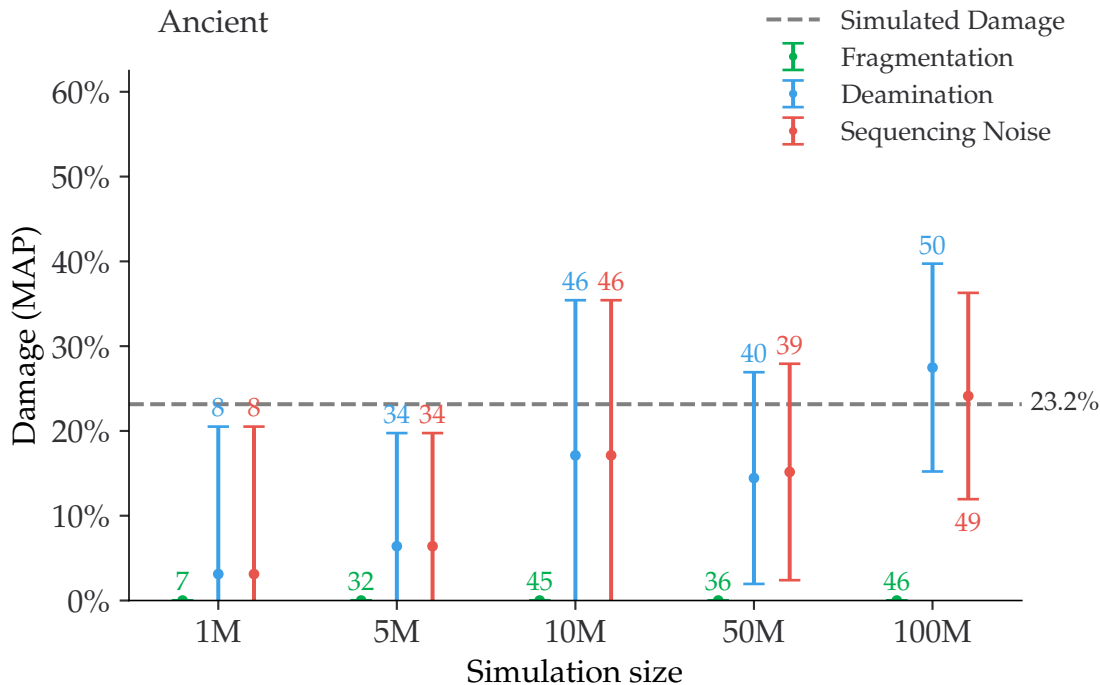
Ancient



Cave-102

Tax ID: 72420, s\_\_Parabacteroides distasonis

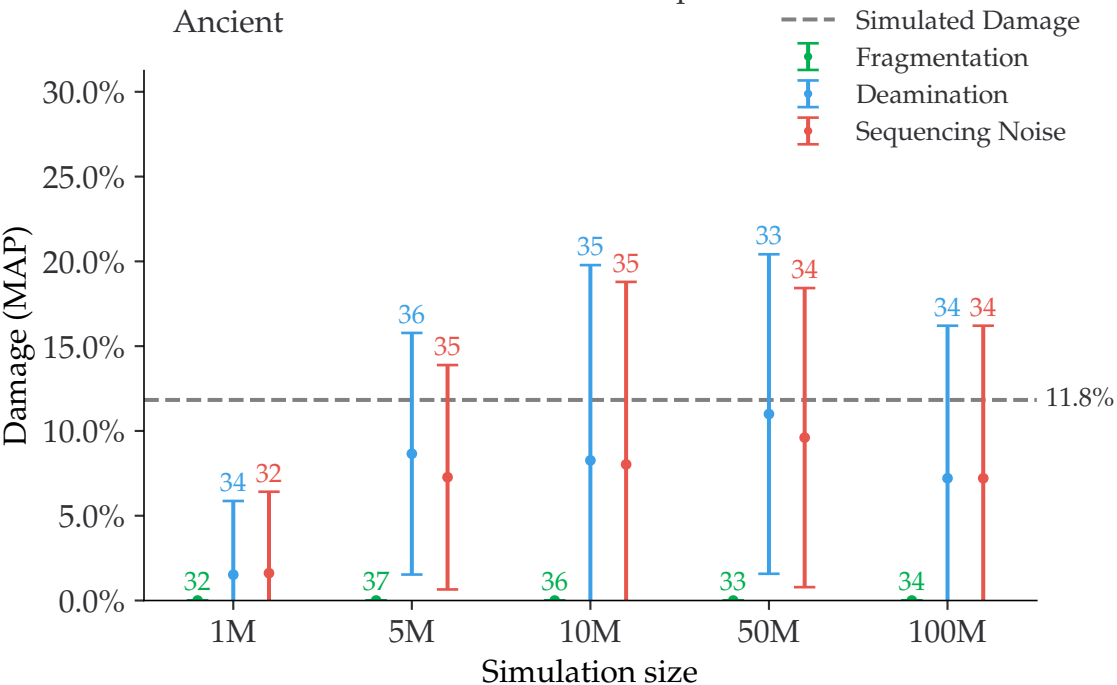
Ancient



Cave-102

Tax ID: 92754, *s\_\_Halochromatium* sp003562815

Ancient



Cave-102

Tax ID: 106162, s\_\_Bosea sp900466745

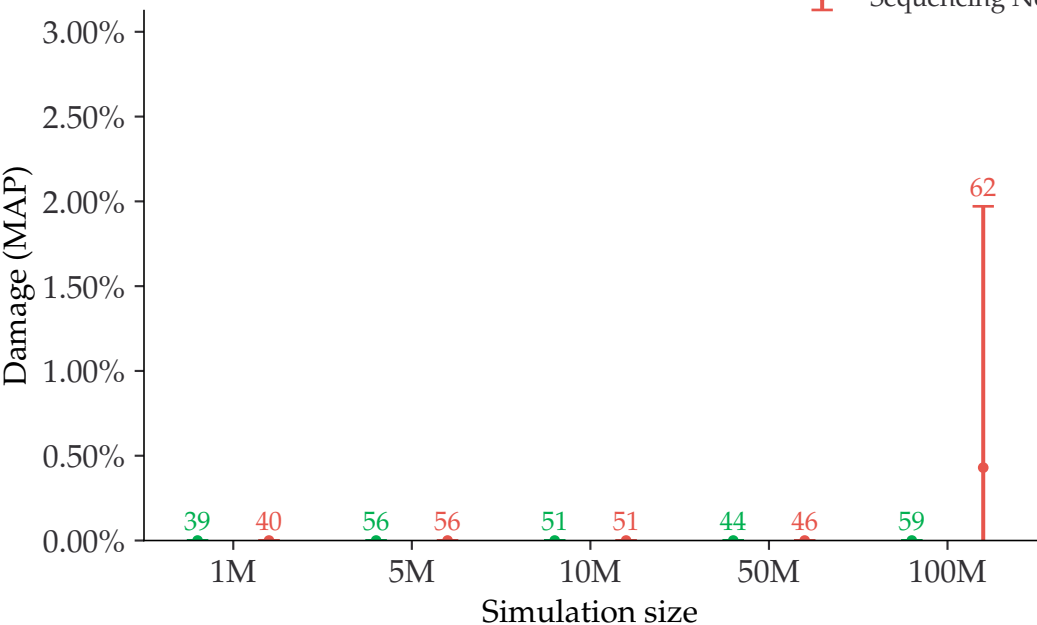
Non-ancient



Fragmentation



Sequencing Noise



Cave-102

Tax ID: 119671, s\_\_Rhodanobacter sp001617365

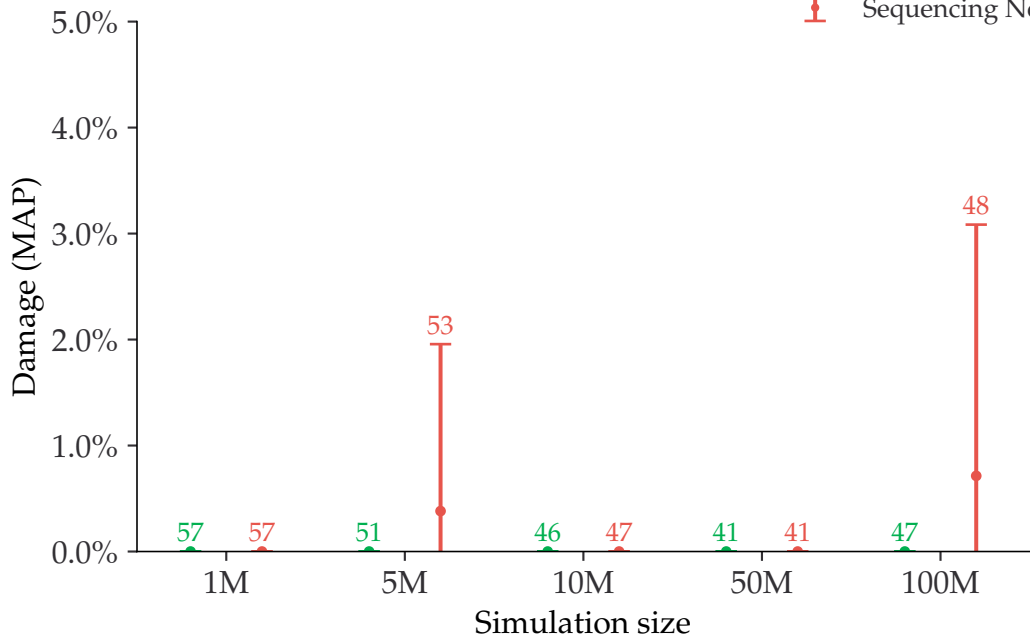
Non-ancient



Fragmentation



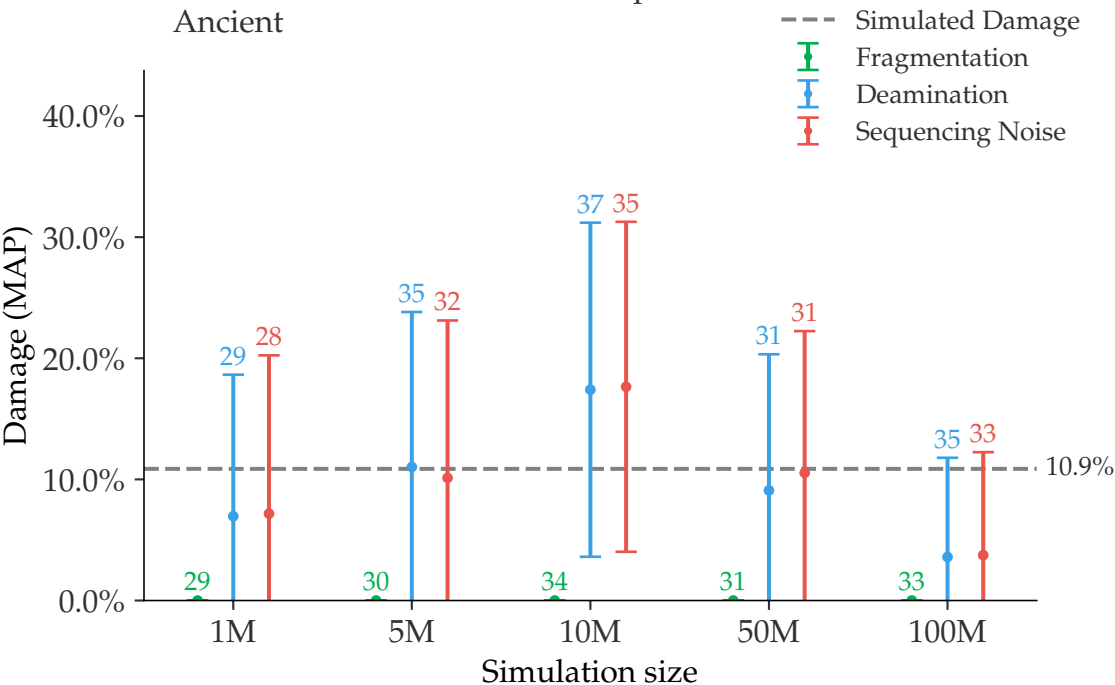
Sequencing Noise



Cave-102

Tax ID: 128154, s\_\_Thalassobius sp009857745

Ancient

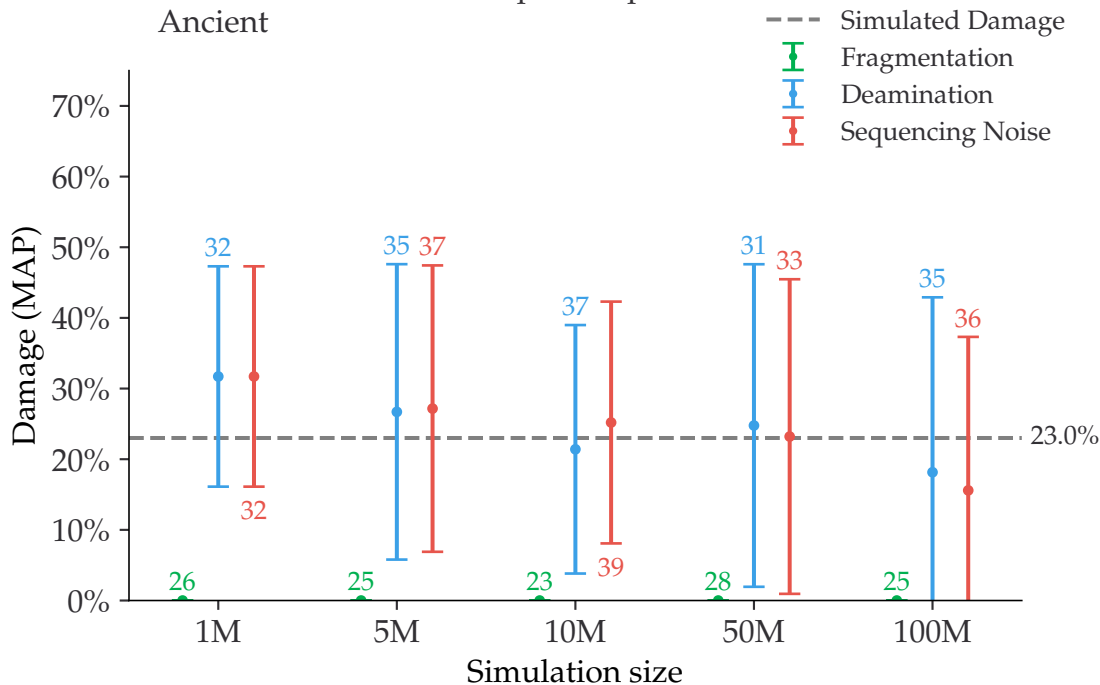




Cave-102

Tax ID: 118311, s\_\_Haemophilus sp001276515

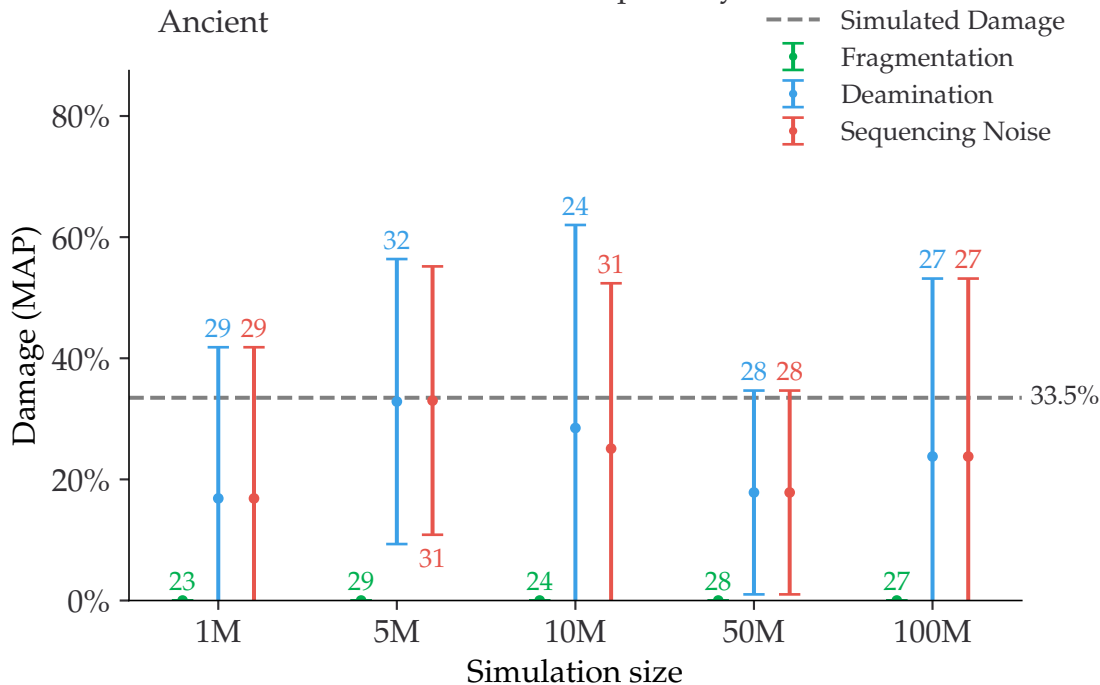
Ancient



Cave-102

Tax ID: 122675, s\_\_Bacteroides heparinolyticus

Ancient



Cave-102

Tax ID: 128121, s\_\_Xanthomonas sacchari\_B

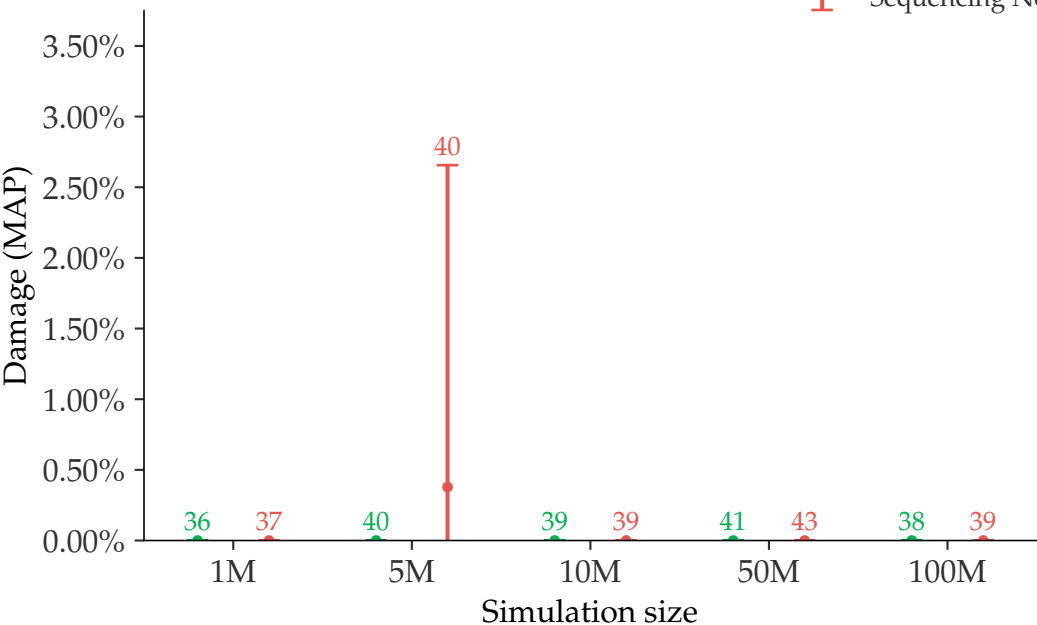
Non-ancient



Fragmentation



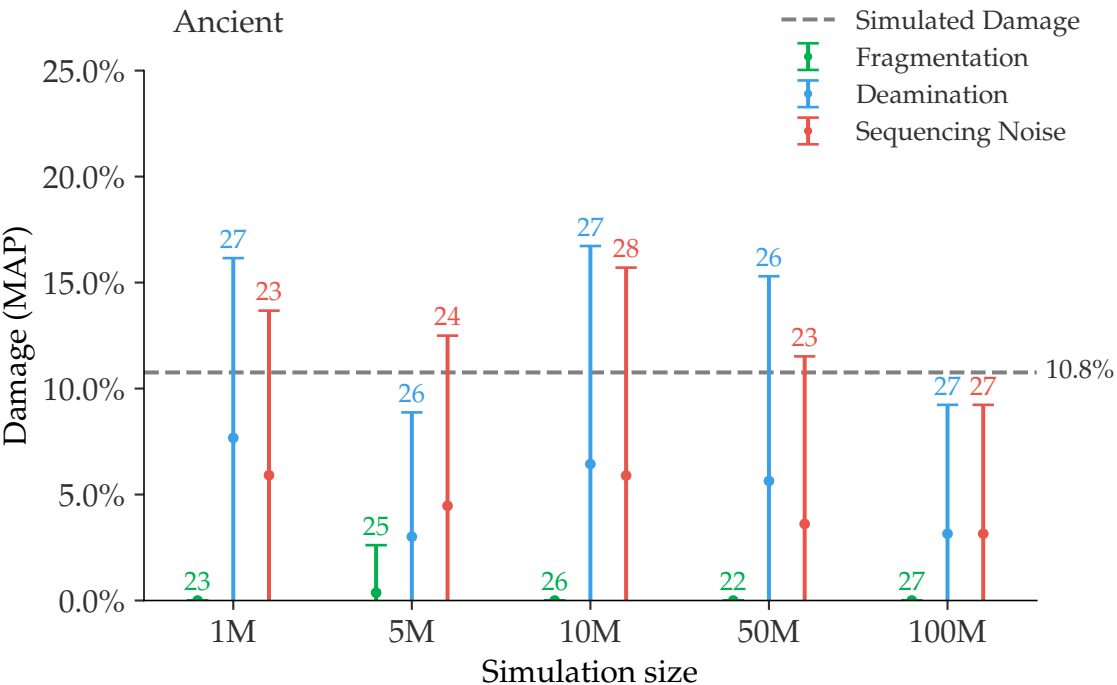
Sequencing Noise



Cave-102

Tax ID: 115211, s\_\_Oceanimonas smirnovii

Ancient



Cave-102

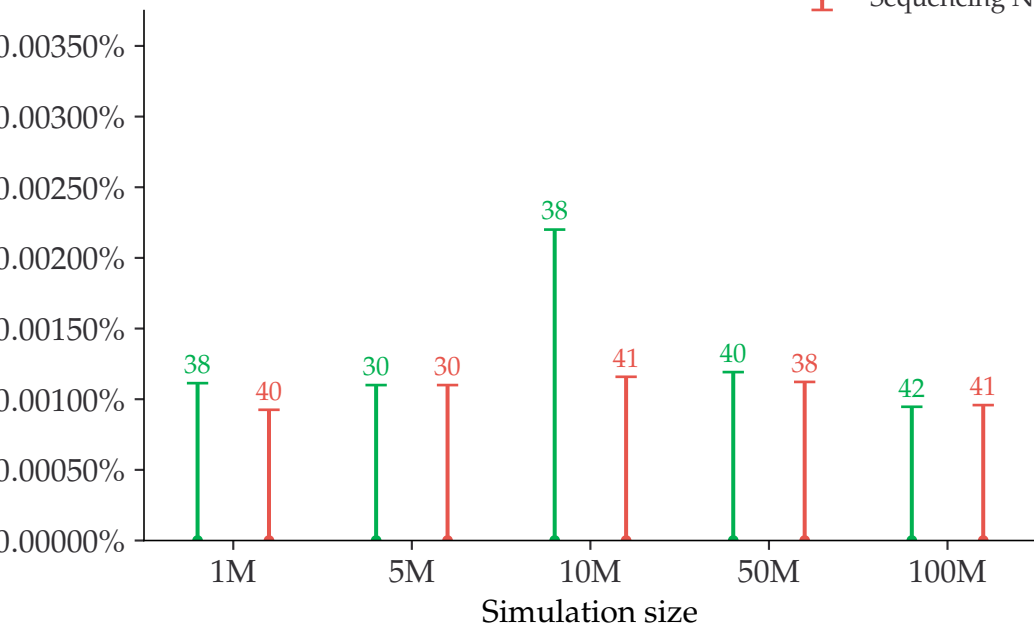
Tax ID: 78116, s\_\_Brevundimonas sp001794825

Non-ancient



Fragmentation

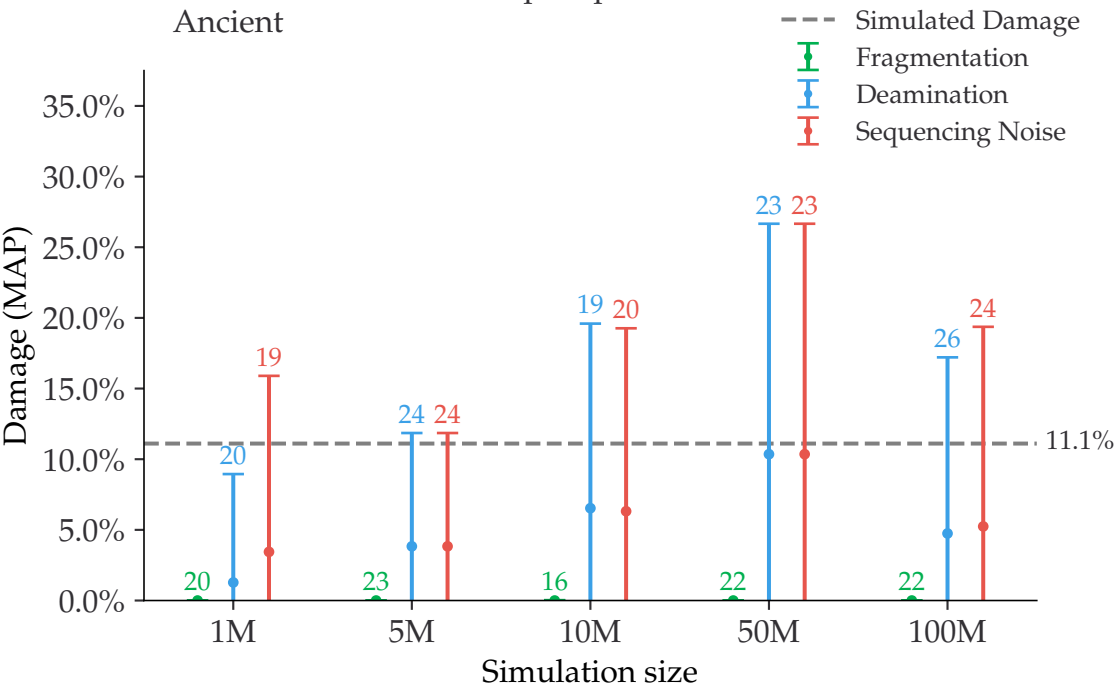
Sequencing Noise



Cave-102

Tax ID: 101289, s\_Thiocapsa sp011390875

Ancient



Cave-102

Tax ID: 92139, s\_\_Escherichia flexneri

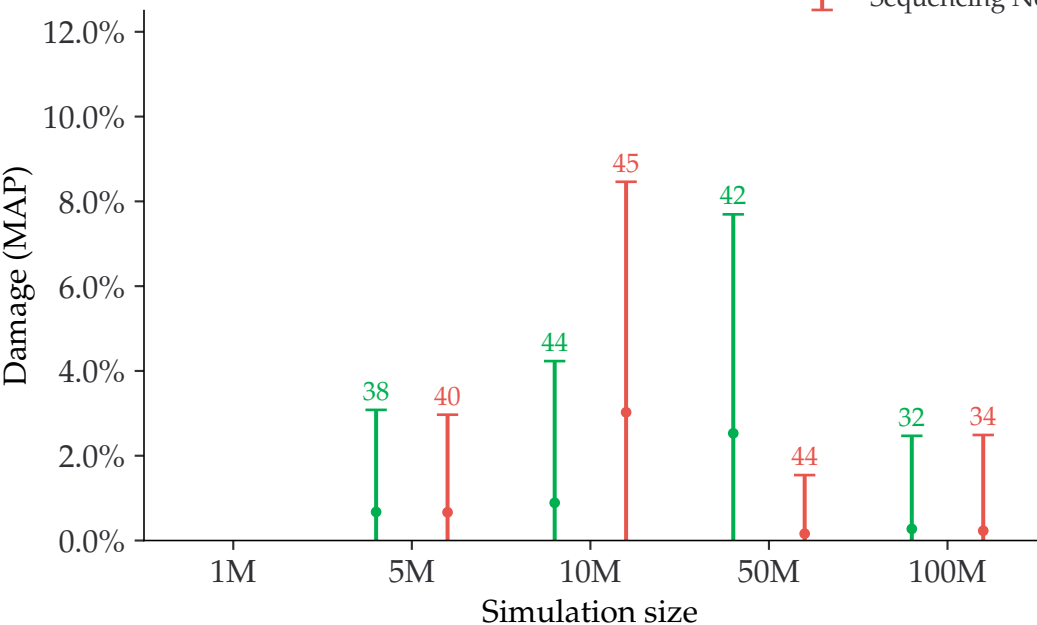
Non-simulated



Fragmentation



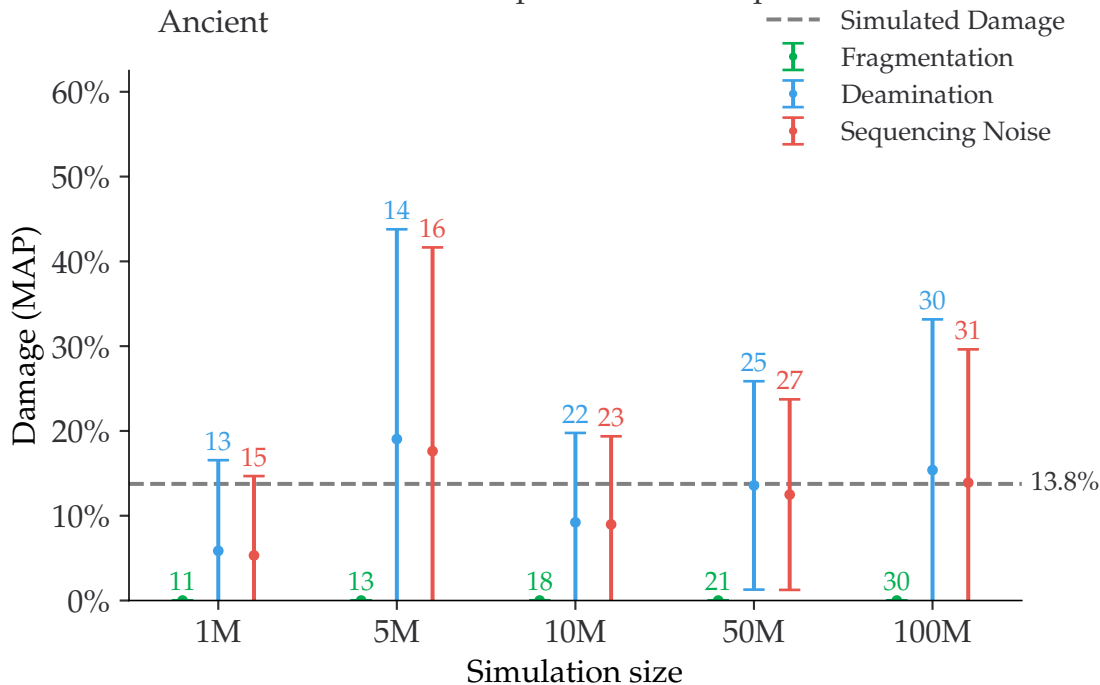
Sequencing Noise



Cave-102

Tax ID: 82130, s\_\_*Stenotrophomonas maltophilia*\_A

Ancient



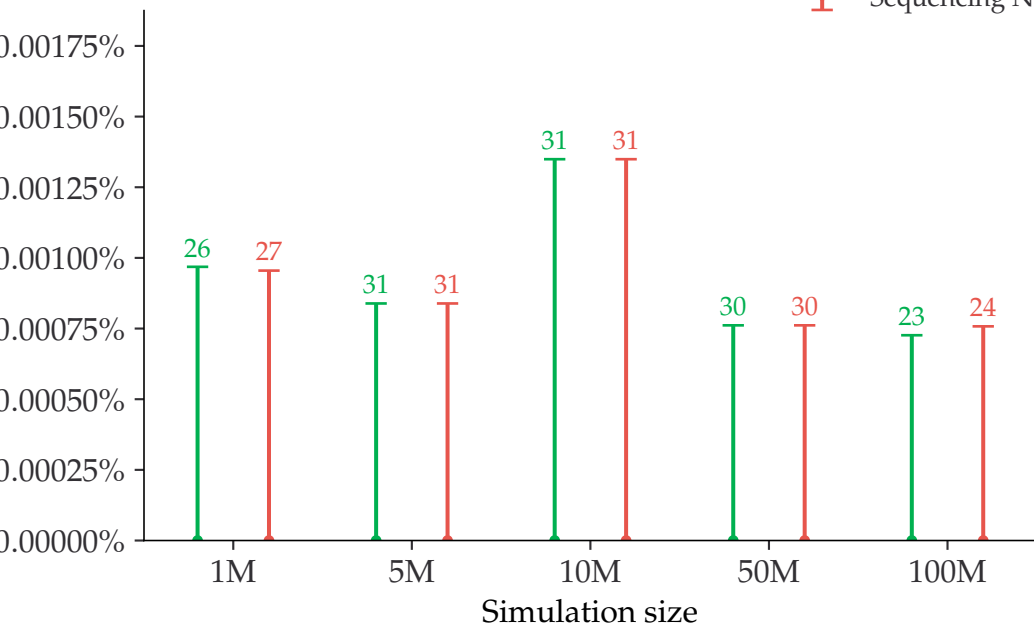


Cave-102

Tax ID: 100083, s\_\_Burkholderia gladioli\_B

Non-ancient

Fragmentation  
Sequencing Noise

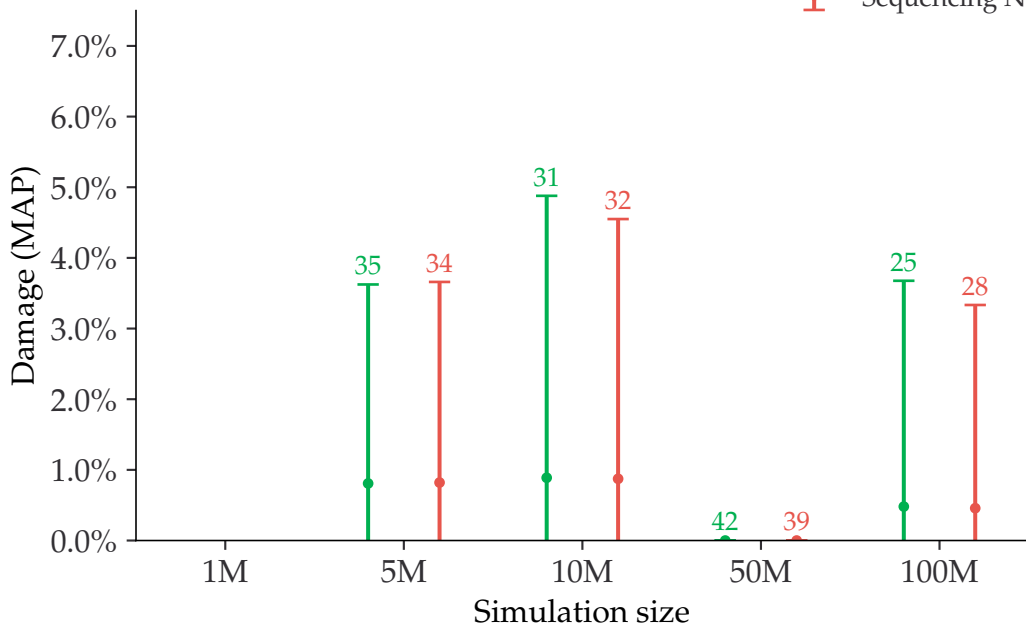


Cave-102

Tax ID: 118004, s\_\_Pluralibacter gergoviae

Non-simulated

Fragmentation  
Sequencing Noise

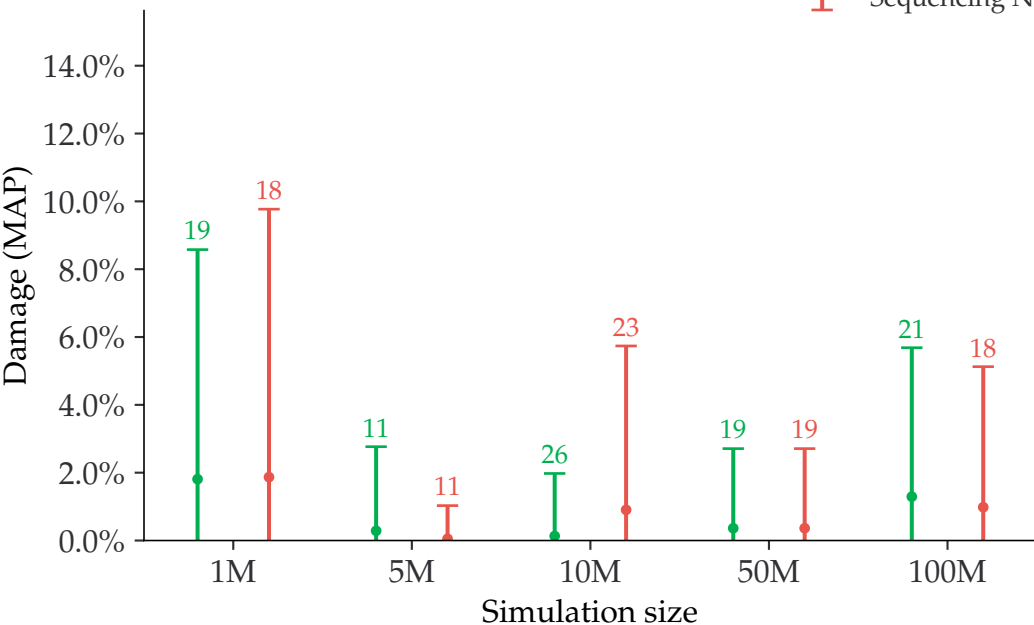


Cave-102

Tax ID: 114095, s\_\_Rahnella aquatilis

Non-simulated

Fragmentation  
Sequencing Noise

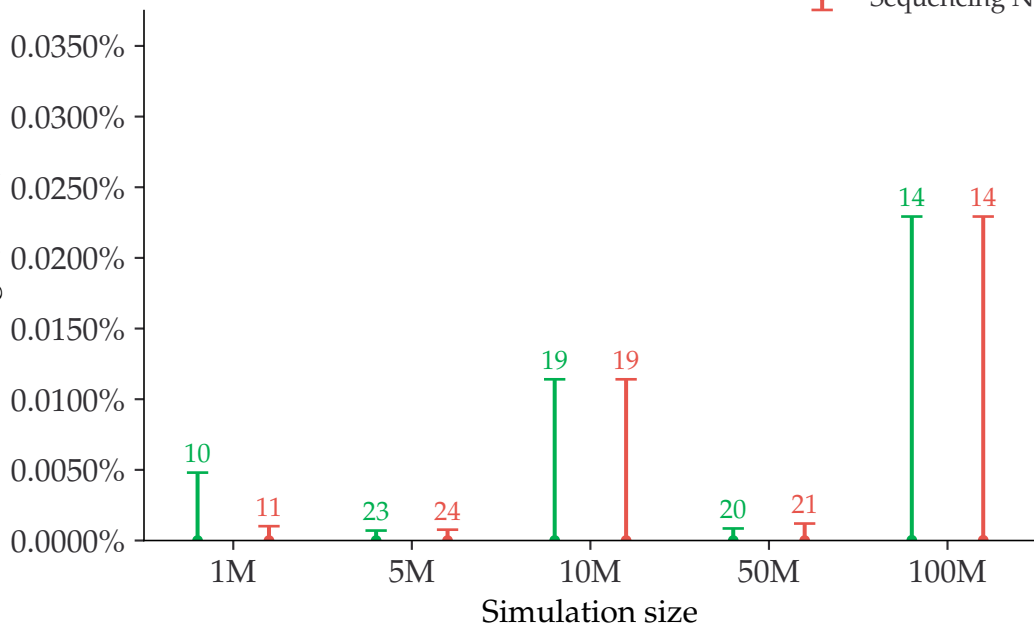


Cave-102

Tax ID: 119937, s\_\_Rhizobium sp001664485

Non-ancient

Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 124868, s\_\_Rahnella aquatilis\_B

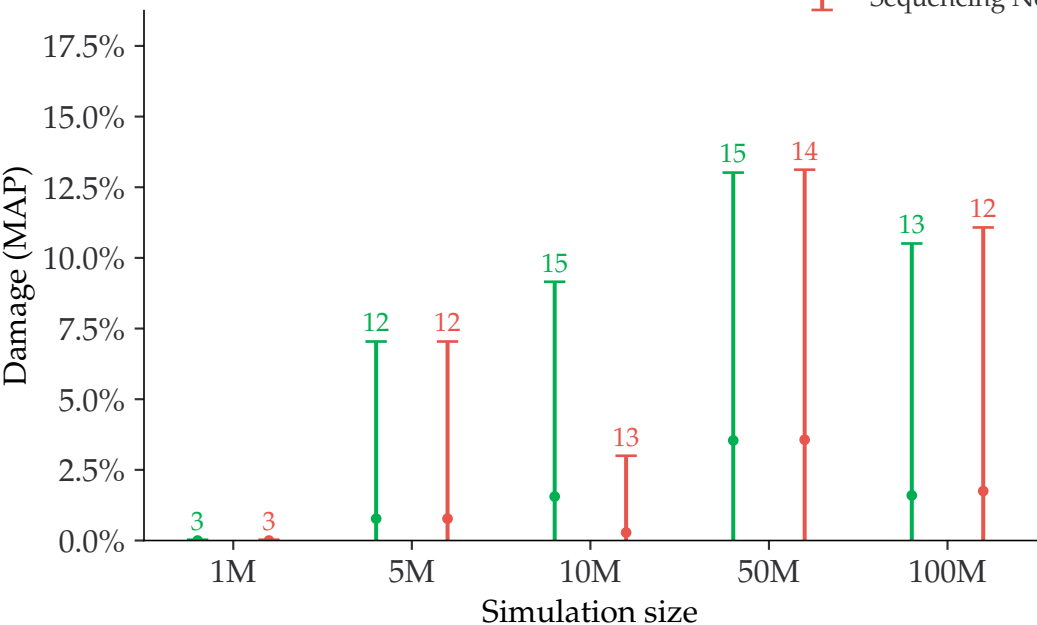
Non-simulated



Fragmentation



Sequencing Noise

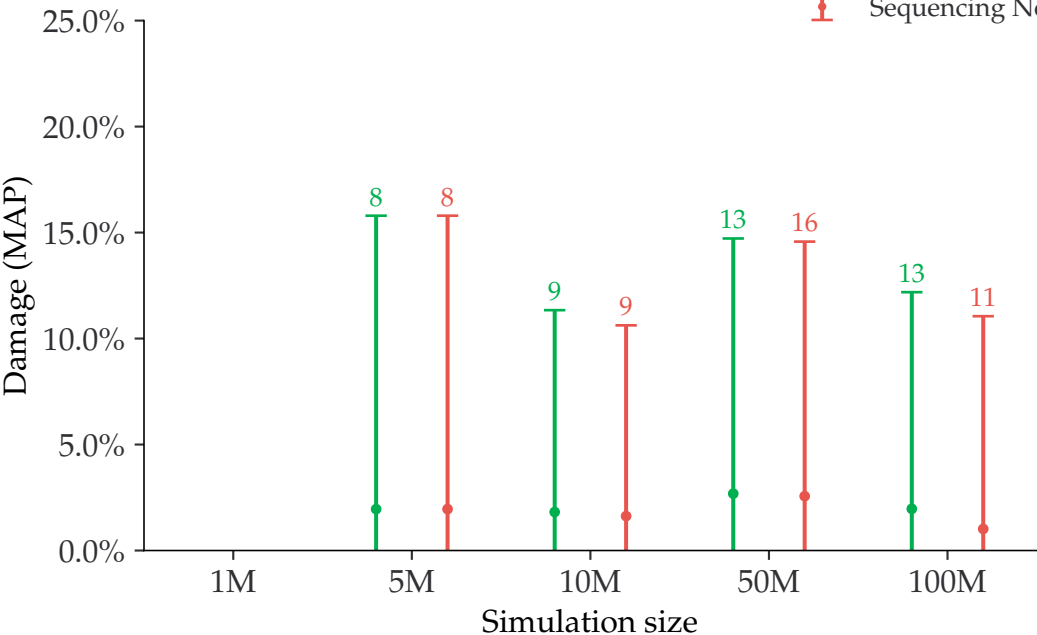


Cave-102

Tax ID: 79451, s\_\_Escherichia coli\_D

Non-simulated

Fragmentation  
Sequencing Noise

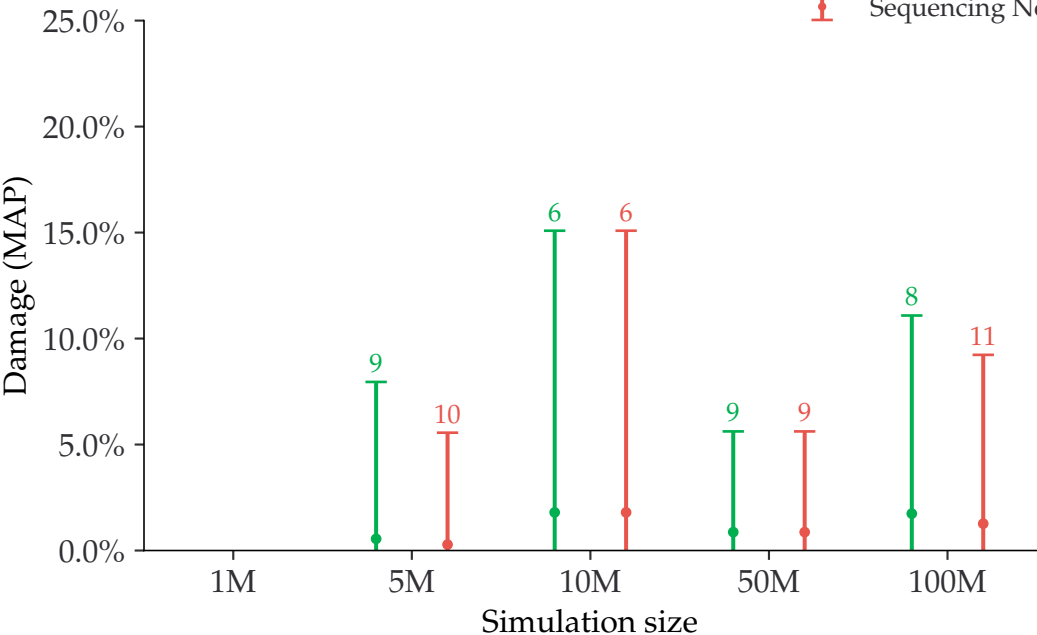


Cave-102

Tax ID: 104002, s\_\_Escherichia coli

Non-simulated

Fragmentation  
Sequencing Noise



Cave-102

Tax ID: 125303, s\_\_Escherichia sp004211955

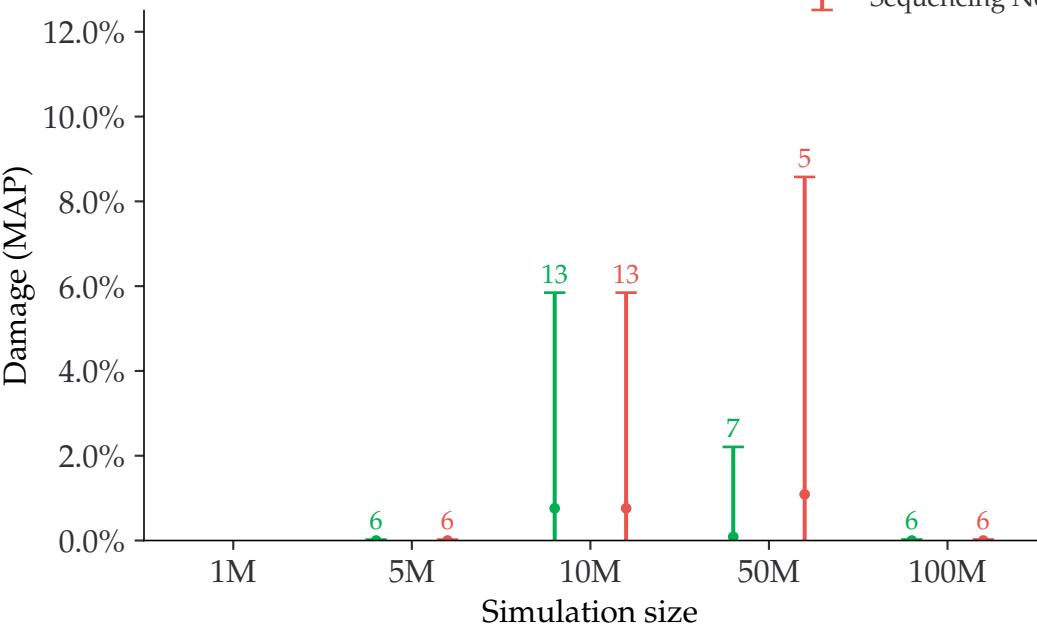
Non-simulated



Fragmentation



Sequencing Noise





Cave-102

Tax ID: 121333, s\_\_Campylobacter\_A concisus\_W

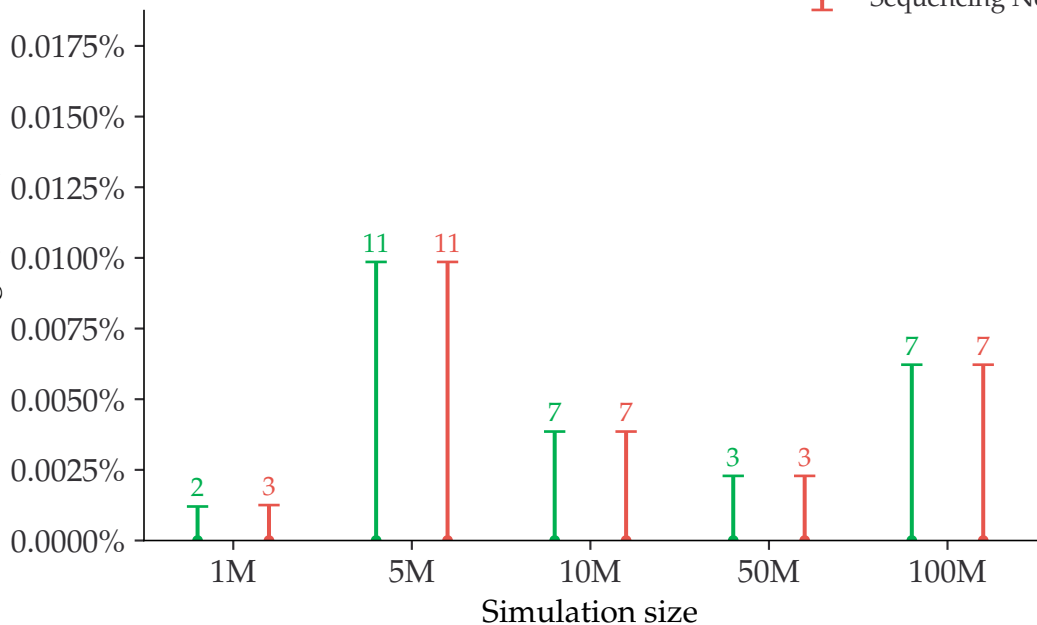
Non-ancient



Fragmentation



Sequencing Noise



Cave-102

Tax ID: 72448, s\_\_Escherichia dysenteriae

Non-ancient

Fragmentation  
Sequencing Noise

