

LIST OF PUBLICATIONS OF NIKOLAY OSKOLKOV

- 1) **Oskolkov N**, Sandionigi A, Götherström A, Canini F, Turchetti B, Zucconi L, Mimmo T, Buzzini P, Borruso L. Unraveling the ancient fungal DNA from the Iceman gut. *BMC Genomics* **2024** Dec 19;25(1):1225. doi: 10.1186/s12864-024-11123-2. PMID: 39701966; PMCID: PMC11660557.
- 2) Emilio Mármol-Sánchez, M. Thomas P. Gilbert, Bastian Fromm, Glenn Dunshea, Sebastien Calvignac-Spencer, **Nikolay Oskolkov**, Michael D. Martin, Ludovic Orlando, Marc Friedländer, Anders Johannes Hansen, Oliver Smith, Hannes Schroeder, Liam Thomas Lanigan, Karina Krarup Svenninggaard Sand, Sarah S.T. Mak, Verena J. Schuenemann, Hinzke Tjorven, Ancient RNA: Unveiling the hidden past to unlock future horizons, under review in *Nature Reviews Genetics* **2025**
- 3) Emilio Mármol-Sánchez, Bastian Fromm, **Nikolay Oskolkov**, Zoé Pochon, Marianne Dehasque, Morteza Aslanzadeh1, Elif Bozlak, Katherine Brown, Tom van der Valk, Panagiotis Kalogeropoulos, J Camilo Chacón-Duque, Inna Biryukova, Valeri Plotnikov, Albert Protopopov, Björn Andersson, Erik Ersmark, Kevin J Peterson, Marc R Friedländer, Love Dalén, Ancient RNA expression profiles from the extinct woolly mammoth, under review in *Science* **2025**
- 4) **Nikolay Oskolkov**, Chenyu Jin, Samantha López Clinton, Flore Wijnands, Ernst Johnson, Benjamin Guinet, Verena Kutschera, Cormac Kinsella, Peter D. Heintzman and Tom van der Valk, Disinfecting eukaryotic reference genomes to improve taxonomic inference from environmental ancient metagenomic data, under review in *Genome Biology* **2025**
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- 6) Benjamin Guinet, **Nikolay Oskolkov**, Love Dalen, Tom van der Valk, A comprehensive investigation of microbes associated with woolly mammoth remains, under review in *Cell* **2025**.
- 7) **Nikolay Oskolkov**, On accurate filtering criteria in taxonomic classification analysis for ancient metagenomics data, under review in *Frontiers in Microbiology* **2025**
- 8) Nora Bergfeldt, **Nikolay Oskolkov**, Ricardo Rodriguez-Varela, Benjamin Guinet, Petter Larsson, Jorge Arturo Talavera, Sandra Guevara Flores, Federico Navarrete Linares, Anders Götherström*, Cristina Valdiosera*, *Vibrio cholerae* in 18th century Mexico, under review in *Nature Communications* **2025**
- 9) Zaher Elbeck, Mohammad Bakhtiar Hossain, Humam Siga, **Nikolay Oskolkov**, Fredrik Karlsson, Julia Lindgren, Anna Walentinsson, Cristobal Dos Remedios, Dominique Koppenhöfer, Rebecca Jarvis, Roland Bürl, Tanguy Jamier, Elske Franssen, Mike Firth, Andrea Degasperi, Claus Bendtsen, Jan Dudek, Michael Kohlhaas, Alexander G. Nickel, Lars H. Lund, Christoph Maack, Ákos Végvári, Christer Betsholtz, Epigenetic modulators link mitochondrial redox homeostasis to cardiac function in a sex-dependent manner. *Nature Communications* **2024**, 15, 2358. <https://doi.org/10.1038/s41467-024-46384-8>
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- 12) Marianne Dehasque, Hernán E. Morales, David Díez del Molino, Patricia Pečnerová, J. Camilo Chacón-Duque, Foteini Kanellidou, Héloïse Muller, Valerii Plotnikov, Albert Protopopov, Alexei Tikhonov, Pavel Nikolskiy, Gleb K. Danilov, Maddalena Gianni, Laura van der Sluis, Tom Higham, Peter D. Heintzman, **Nikolay Oskolkov**, M. Thomas P. Gilbert, Anders Götherström, Tom van der Valk, Sergey Vartanyan, Love Dalén, Temporal dynamics of woolly mammoth genome erosion prior to extinction, *Cell* **2024**, Jun 17:S0092-8674(24)00577-4. <https://doi.org/10.1016/j.cell.2024.05.033>
 - 13) Tina Rönn, Alexander Perfilyev, **Nikolay Oskolkov*** and Charlotte Ling*, Predicting type 2 diabetes via Machine Learning integration of multiple Omics from human pancreatic islets, *Scientific Reports* **2024**, Jun 25;14(1):14637. <https://doi.org/10.1038/s41598-024-64846-3>
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 - 20) Kristoffer Ström*, **Nikolay Oskolkov***, Tugce Karaderi et al. Genetic variation at RAB3GAP2 and its role in exercise-related adaptation and recovery, under review in *Nature Metabolism* **2023**, PREPRINT v.1 available at Research Square [<https://doi.org/10.21203/rs.3.rs-701652/v1>]

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