

### **Accurate detection of paroxysmal atrial fibrillation with certified-GAN and neural architecture search**

Asadi, Mehdi; Poursalim, Fatemeh; Loni, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Gharehbaghi, Arash Scientific Reports 2023 / art. 11378, 16 p. : ill <https://doi.org/10.1038/s41598-023-38541-8>

### **Antiviral efficacy of cerium oxide nanoparticles**

Nefedova, Alexandra; Rausalu, Kai; Zusinaite, Eva; Vanetsev, Alexander; **Rosenberg, Merilin**; Koppel, Kairi; Lilla, Stevin; Visnapuu, Meeri; Smits, Krisjanis; Kisand, Vambola Scientific reports 2022 / art. 18746, 16 p. : ill <https://doi.org/10.1038/s41598-022-23465-6>  
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### **Author correction: First crystal structure of an endo-levanase – the BT1760 from a human gut commensal Bacteroides thetaiotaomicron (Scientific Reports, (2019), 9, 1, (8443), 10.1038/s41598-019-44785-0)**

Ernits, Karin; **Eek, Priit**; **Lukk, Tiit**; Visnapuu, Triinu; Alamäe, Tiina Scientific reports 2019 / art. 17512, 1 p.  
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### **Beneficial effects of bio-fabricated selenium nanoparticles as seed nanopriming agent on seed germination in rice (Oryza sativa L.)**

Setty, Jyotsna; Samant, Sanjib Bal; **Yadav, Mayank Kumar**; Manjubala, Muthusamy; Pandurangam, Vijai Scientific Reports 2023 / art. 22349 <https://doi.org/10.1038/s41598-023-49621-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bryozoan-cnidarian mutualism triggered a new strategy for greater resource exploitation as early as the Late Silurian**

Zapalski, M. K.; Vinn, Olev; **Toom, Ursula**; Ernst, Andrej; Wilson, Mark A. Scientific reports 2022 / art. 15556 ; 9 p. : ill <https://doi.org/10.1038/s41598-022-19955-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cardiac muscle regulatory units are predicted to interact stronger than neighboring cross-bridges**

**Kalda, Mari**; **Vendelin, Marko** Scientific reports 2020 / art. 5530, 13 p. : ill <https://doi.org/10.1038/s41598-020-62452-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chitosan nanoparticles having higher degree of acetylation induce resistance against pearl millet downy mildew through nitric oxide generation**

Siddaiah, Chandra Nayaka; Prasanth, Keelara Veerappa Harish; Satyanarayana, Niranjan Raj; Mudili, Venkataramana; **Gupta, Vijai Kumar**; Kalagatur, Naveen Kumar; Satyavati, Tara; Dai, Xiao-Feng; Chen, Jie-Yin; Mocan, Andrei Scientific reports 2018 / art. 2485, 14 p. : ill <https://doi.org/10.1038/s41598-017-19016-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at WOS](#)

### **Comparative genomic analysis of monosporidial and monoteliosporic cultures for unraveling the complexity of molecular pathogenesis of Tilletia indica pathogen of wheat**

Mishra, Pallavi; Maurya, Ranjeet; **Gupta, Vijai Kumar**; Ramteke, Pramod Wasudeo; Marla, Soma S.; Kumar, Anil Scientific reports 2019 / art. 8185, 15 p. : ill <https://doi.org/10.1038/s41598-019-44464-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparative study reveals better far-red fluorescent protein for whole body imaging**

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### **Competitive binding of natural amphiphiles with graphene derivatives**

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### **Copper(I)-binding properties of de-coppering drugs for the treatment of Wilson disease. α-Lipoic acid as a potential anti-copper agent**

**Smirnova, Julia**; Kabin, Ekaterina; Järving, Ivar; Bragina, Olga; Tõugu, Vello; Plitz, Thomas; **Palumaa, Peep** Scientific reports 2018 / art. 1463, 9 p. : ill <https://doi.org/10.1038/s41598-018-19873-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Copper(II)-binding equilibria in human blood**

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### **Correlation between electroencephalographic markers in the healthy brain**

**Päeske, Laura**; **Uudeberg, Tuuli**; Hinrikus, Hiie; Lass, Jaanus; **Bachmann, Maie** Scientific reports 2023 / art. 6307 <https://doi.org/10.1038/s41598-023-33364-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Differential patterns of cross-reactive antibody response against SARS-CoV-2 spike protein detected for chronically ill**

**and healthy COVID-19 naïve individuals**

**Jaago, Mariliis; Rähni, Annika;** Pupina, Nadezda; **Sadam, Helle; Tuvikene, Jürgen; Avarlaid, Annela;** Planken, Anu; Planken, Margus; Haring, Liina; Vasar, Eero; Bacevic, Miljana; Lambert, France; Kalso, Eija; Pussinen, Pirkko; Tienari, Pentti J.; Vaheri, Antti; Lindholm, Dan; **Timmusk, Tõnis;** Ghaemmaghami, Amir M.; Palm, Kaia Scientific reports 2022 / art. 16817 : ill

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**Droplet-based digital antibiotic susceptibility screen reveals singlecell clonal heteroresistance in an isogenic bacterial population**

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**Energy-efficiency of cardiomyocyte stimulation with rectangular pulses**

**Laasmaa, Martin;** Lu, Pengfei; Vetic, Mladen; Louch, William Edward; Bergsland, Jacob; Balasingham, Ilango; **Vendelin, Marko**

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**Erratum: author correction: Alleviation of drought stress in pulse crops with ACC deaminase producing rhizobacteria isolated from acidic soil of Northeast India (Scientific reports (2018) 8 1 (3560))**

Saikia, Juthika; Sarma, Rupak K.; Dhandia, Rajashree; Yadav, Archana; Bharali, Rupjyoti; **Gupta, Vijai Kumar;** Saikia, Ratul

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**Erratum: author correction: Insights into the functionality of endophytic actinobacteria with a focus on their biosynthetic potential and secondary metabolites production (Scientific reports (2017) 7 1 (11809))**

Passari, Ajit Kumar; Mishra, Vineet Kumar; Singh, Garima; Singh, Pratibha; Kumar, Brijesh; **Gupta, Vijai Kumar; Sarma, Rupak Kumar; Saikia, Ratul; Donovan, Anthonia O'; Singh, Bhim Pratap** Scientific reports 2018 / art. 4650, 1 p.

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**First crystal structure of an endo-levanase - the BT1760 from a human gut commensal Bacteroides thetaiotaomicron**

Ernits, Karin; **Eek, Priit; Lukk, Tiit** Scientific reports 2019 / art. 8443, 13 p. : ill <https://doi.org/10.1038/s41598-019-44785-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A fish-friendly axial flow pump turns out to be eel safe, roach unfriendly and bream unsafe**

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**The Fuchs corneal dystrophy-associated CTG repeat expansion in the TCF4 gene affects transcription from its alternative promoters**

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**Glendonite occurrences in the Tremadocian of Baltica: first Early Palaeozoic evidence of massive ikaite precipitation at temperate latitudes**

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**Graphene-augmented nanofiber scaffolds demonstrate new features in cells behaviour**

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**Identification and analysis of mtDNA genomes attributed to Finns reveal long-stagnant demographic trends obscured in the total diversity**

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**Identification, characterization and expression profiles of Fusarium udum stress-responsive WRKY transcription factors in Cajanus cajan under the influence of NaCl stress and Pseudomonas fluorescens OKC**

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**Impact of blocking layers based on TiO2 and ZnO prepared via direct current reactive magnetron sputtering on DSSC solar cells**

**Sibinski, Maciej**; Sawicka-Chudy, Paulina; Wisz, Grzegorz; Gnida, Pawel; Schab-Balcerzak, Ewa; Wal, Andrzej; Yavorskyi, Rostyslav; Cholewa, Marian Scientific reports 2024 / art. 10676 <https://doi.org/10.1038/s41598-024-61512-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Individual stability of single-channel EEG measures over one year in healthy adults**

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**Insights into the functionality of endophytic actinobacteria with a focus on their biosynthetic potential and secondary metabolites production**

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**Intradialytic optical assessment of C-mannosyl tryptophan removal using spent dialysate**

**Paats, Joosep; Adoberg, Annika; Leis, Liisi; Arund, Jürgen; Lauri, Kai; Luman, Merike; Tanner, Risto; Holmar, Jana; Pilt, Kristjan; Fridolin, Ivo** Scientific reports 2025 / art. 20052, 12 p. : ill <https://doi.org/10.1038/s41598-025-01844-z>

**Latitudinal gradients in the phylogenetic assembly of angiosperms in Asia during the Holocene**

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**Low altitude solar magnetic reconnection, type III solar radio bursts, and X-ray emissions**

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**Marker enzyme activities in hindleg from creatine-deficient AGAT and GAMT KO mice - differences between models, muscles, and sexes**

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**Microbial inoculation in rice regulates antioxidative reactions and defense related genes to mitigate drought stress**

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**Microfluidic production, stability and loading of synthetic giant unilamellar vesicles**

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**Modeling the impact of indoor relative humidity on the infection risk of five respiratory airborne viruses**

Aganovic, Amar; Bi, Yang; Cao, Guangyu; **Kurnitski, Jarek**; Wargocki, Pawel Scientific reports 2022 / art. 11481, 10 p. : ill <https://doi.org/10.1038/s41598-022-15703-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A negatively charged cluster in the disordered acidic domain of GPIHBP1 provides selectivity in the interaction with lipoprotein lipase**

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**Neuralized family member NEURL1 is a ubiquitin ligase for the cGMP-specific phosphodiesterase 9A**

**Taal, Kati; Tuvikene, Jürgen; Rullinkov, Grete; Piirsoo, Marko; Sepp, Mari; Neuman, Toomas; Tamme, Richard; Timmusk, Tõnis** Scientific reports 2019 / art. 7104, 12 p. : ill <https://doi.org/10.1038/s41598-019-43069-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A novel approach for synthesizing silver nanoparticles with antibacterial and cytotoxic activities using the leaf extract of hydroponically grown Moringa oleifera**

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**Novel data dependent divider circuit block implementation for complex division and area critical applications**

**Patankar, Udayan Sunil;** Flores, Miguel E.; **Koel, Ants** Scientific reports 2023 / art. 3027, 28 p. : ill <https://doi.org/10.1038/s41598-023-28343-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Propidium iodide staining underestimates viability of adherent bacterial cells**

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**Proving vote correctness in the IVXV internet voting system**

**Kraavi, Taaniel;** Willemson, Jan Scientific Reports 2025 / art. 31793 <https://doi.org/10.1038/s41598-025-16764-1>

**Pulsed laser deposition of Zn(O,Se) layers in nitrogen background pressure**

**Abdalla, Akram; Bereznev, Sergei; Spalatu, Nicolae; Volobujeva, Olga; Sleptšuk, Natalja; Danilson, Mati** Scientific reports 2019 / art. 17443, 10 p. : ill <https://doi.org/10.1038/s41598-019-54008-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rapid in situ assessment of Cu-ion mediated effects and antibacterial efficacy of copper surfaces**

**Rosenberg, Merilin;** Vilja, Heiki; Kahru, Anne; Keevil, William; Ivask, Angela Scientific reports 2018 / art. 8172, 8 p. : ill <https://doi.org/10.1038/s41598-018-26391-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Residue-specific binding of Ni(II) ions influences the structure and aggregation of amyloid beta (A $\beta$ ) peptides**

**Berntsson, Elina;** Vosough, Faraz; Svantesson, Teodor; Pansieri, Jonathan; Iashchishyn, Igor A.; Ostojić, Lucija; Dong, Xiaolin; Paul, Suman; Jarvet, Jüri; Roos, Per M.; Gräslund, Astrid; Wärmländer, Sebastian K.T.S. Scientific Reports 2023 / art. 3341 <https://doi.org/10.1038/s41598-023-29901-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Rethinking fish-friendliness of pumps by shifting focus to both safe and timely fish passage for effective conservation**

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**Sea surface circulation in the Baltic Sea : decomposed components and pattern recognition**

**Barzandeh, Amirhossein; Maljutenko, Ilja; Rikka, Sander; Lagemaa, Priidik; Männik, Aarne; Uiboupin, Rivo; Raudsepp, Urmas** Scientific reports 2024 / art. 18649 <https://doi.org/10.1038/s41598-024-69463-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selective antibiofilm properties and biocompatibility of nano-ZnO and nano-ZnO/Ag coated surfaces**

**Rosenberg, Merilin;** Visnapuu, Meeri; Vija, Heiki Scientific reports 2020 / art. 13478, 15 p. : ill <https://doi.org/10.1038/s41598-020-70169-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Serum levels of miR-126 and miR-223 and outcomes in chronic kidney disease patients**

Fourdinier, Ophélie; Schepers, Eva; Metzinger-Le Meuth, Valérie; Glorieux, Griet; Liabeuf, Sophie; Vanholder, Raymond; Brigant, Benjamin; Pletinck, Anneleen; **Fridolin, Ivo** Scientific reports 2019 / art. 447, 12 p. : ill <https://doi.org/10.1038/s41598-019-41101-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**SLM-processed MoS<sub>2</sub>/MoS<sub>3</sub> nanocomposite for energy conversion/storage applications**

**Alinejadian, Navid;** Kazemi, Sayed Habib; Odnevall Wallinder, Inger Scientific reports 2022 / art. 5030 <https://doi.org/10.1038/s41598-022-08921-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Spatial and temporal variability of ambient underwater sound in the Baltic Sea**

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**Synergistic antibacterial effect of copper and silver nanoparticles and their mechanism of action**

**Vasiliev, Grigory;** Kubo, Anna-Liisa; Vija, Heiki; Kahru, Anne; **Bondar, Denys; Karpichev, Yevgen;** Bondarenko, Olesja Scientific reports 2023 / art. 9202, 15 p. : ill <https://doi.org/10.1038/s41598-023-36460-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synergy of climate change with country success and city quality of life**

Kaklauskas, Arturas; Abraham, Ajith; Kaklauskienė, Loreta; Ubarte, Ieva; Amaratunga, Dilanthi; **Lill, Irene;** Milevicius, Virginijus; Kaklauskaitė, Ulijona Scientific Reports 2023 / art. 7872 <https://doi.org/10.1038/s41598-023-35133-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Target prediction and validation of microRNAs expressed from FSHR and aromatase genes in human ovarian granulosa cells**

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**Targeted alternative splicing of TAF4 : a new strategy for cell reprogramming**

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**Temporal stability and correlation of EEG markers and depression questionnaires scores in healthy people**

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**The effects of ship wakes in the Venice Lagoon and implications for the sustainability of shipping in coastal waters**

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**The gut microbiota of healthy individuals remains resilient in response to the consumption of various dietary fibers**

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**The influence of different maternal microbial communities on the development of infant gut and oral microbiota**

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