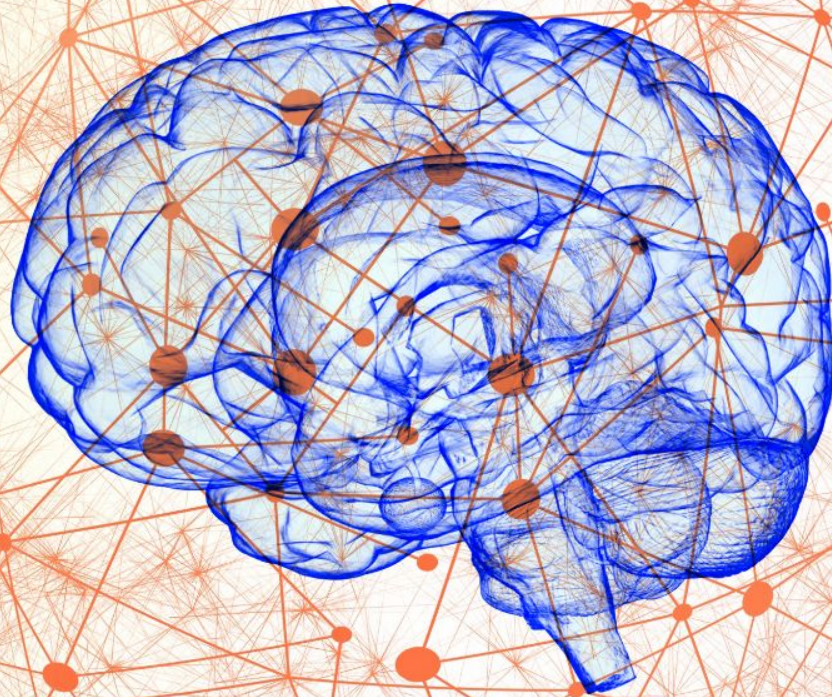


Brainhack 2022



Marburg



Open Access with Marburg University

Open Access with UMR

Speaker: Lydia Riedl

Contact: Riedl@staff.uni-marburg.de

Why Open Science?

"Open Science aims to increase *collaborations* within the research community and bring scientific knowledge creation, evaluation, and communication *closer to society*. Achieving these aims will improve the capacity of science in *addressing societal and global challenges*. It will also improve the scientific benefits to society at a time when mistrust is growing among parts of the public and political pressure in some countries is limiting *freedom of research*."

Current priorities: ***open access*** and ***research data***

s. <https://www.scienceeurope.org/our-priorities/open-science/>



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1. Open What?



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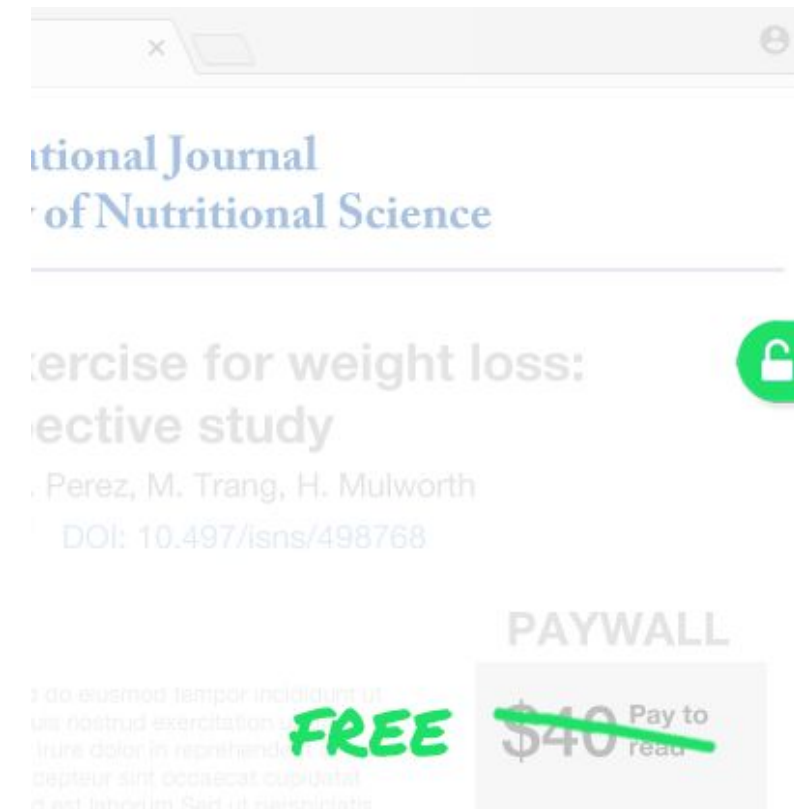
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2. Finding Open Access Literature



2. Finding Open Access Literature





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Open Access Publishing Fund



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3. Publishing Open Access

The screenshot shows the top navigation bar of the Frontiers website with the logo and links for "About us", "All journals", "All articles", and "Submit your research". Below this is a secondary navigation bar for "Frontiers in Genetics" with links for "Sections", "Articles", "Research Topics", "Editorial Board", and "About journal".

The main content area displays the following information:

- BRIEF RESEARCH REPORT article**
- Front. Genet., 09 February 2022
- Sec. Genetics of Common and Rare Diseases
- <https://doi.org/10.3389/fgene.2022.836231>
- This article is part of the Research Topic: Genetics of Familial Hypercholesterolemia: New Insight - Volume II
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Fast and Easy Nanopore Sequencing Workflow for Rapid Genetic Testing of Familial Hypercholesterolemia

Muhidien Soufi^{1*}, Simon Bedenbender¹, Volker Ruppert², Bilgen Kurt², Bernhard Schieffer² and Juergen R. Schaefer¹

¹ Center for Undiagnosed and Rare Diseases, University Hospital Giessen and Marburg and Philipps University Marburg, Marburg, Germany
² Department of Cardiology, Angiology and Critical Care Medicine, University Hospital Giessen and Marburg and Philipps University Marburg, Marburg, Germany

Familial hypercholesterolemia (FH) is an autosomal dominant lipid metabolism disorder characterized by severely elevated plasma low-density lipoprotein cholesterol levels. The disease is caused by mutations in 3 genes (*LDLR*, *APOB* and *PCSK9*) while over 90% of the mutations are located within the *LDLR* gene. Thus, genetic analysis of the *LDLR* gene is the first step in the genetic diagnosis of FH. However, conventional methods like Sanger and NextGen sequencing are still costly and time-consuming. In contrast, Oxford Nanopore technology sequencing is an emerging third-generation sequencing technology featured by easy operability, low cost, small size and the capability of parallel sample sequencing. Here, we present an easy Nanopore-sequencing-based workflow for the rapid genetic testing of FH taking only 3 days and costing less than \$50 per sample without the requirement for deep bioinformatic knowledge. Using our workflow, we were able to identify the underlying pathogenic variants of 10 FH patients including one novel, not yet recorded pathogenic variants. Our workflow allows the rapid evaluation of the pathogenic variants by utilizing detailed variant information from Ensembl. Additionally, our workflow is not restricted to sequencing the *LDLR* gene alone but can be easily adapted to the other FH-causing genes and more importantly, to any desired gene contributing to any hereditary disease. Therefore, our workflow is an attractive opportunity for every diagnostic laboratory to offer fast and easy in-house genetic diagnostics.



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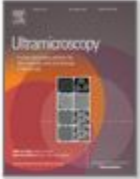


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Ultramicroscopy
Volume 230, November 2021, 113387



Optimization of imaging conditions for composition determination by annular dark field STEM

S. Firoozabadi ¹, P. Kükelhan ¹, T. Hepp, A. Beyer  , K. Volz  

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Optimization of imaging conditions for composition determination by annular dark field STEM

Quantitative scanning transmission electron microscopy (STEM) allows composition determination for nanomaterials at an atomic scale. To improve the accuracy of the results obtained, optimized imaging parameters should be chosen for annular dark field imaging. In a simulation study, we investigate th...

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Autoren: Firoozabadi, Saleh, Kükelhan, Pirmin, Hepp, Thilo, Beyer, Andreas, Volz, Kerstin

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Sprache: Englisch

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Schlagworte: Physik
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A screenshot of the OJS Marburg website interface. At the top left is the Philipps-Universität Marburg logo. Below it is a search bar with a dropdown menu set to "OJS Marburg", a "Find" button, and an "Advanced" link. Below the search bar are two columns of navigation links: "Publizieren" (with sub-links: Author Information, Document Registration, Publication Statement, Terms of Usage) and "Browse" (with sub-links: Journals, Serials, Collections, Explore Channels).


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Aktuelle Ausgabe

Bd. 1 Nr. 1 (2021): Unterrichtsinteraktion - Begriffe, Kontexte, Entwicklungen



Dieser Band enthält wissenschaftliche Beiträge, die sich der Analyse von Interaktionen im Kontext des gesteuerten DaFZ-Erwerbs widmen und insbesondere Fragestellungen fokussieren, die Aushandlungsprozesse in kooperativen Lernsettings unter Peers, interaktionales Lehrhandeln von DaFZ-Lehrnoviz*innen sowie Merkmale der Interaktion im virtuellen Unterrichtsraum zum Gegenstand haben.

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