Resource Summary Report

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BIOHYBRID

RRID:SCR_003838
Type: Tool

Proper Citation

BIOHYBRID (RRID:SCR_003838)

Resource Information

URL: http://kongress.mh-hannover.de/biohybrid/

Proper Citation: BIOHYBRID (RRID:SCR_003838)

Description: Consortium with the goal of repairing damaged nerve trunks that will engage in the preclinical development of an artificial biohybrid nerve device for the regenerative treatment of traumatic injuries of peripheral nerves. Based on the extensive basic and clinical experience within this consortium the artificial nerve device will be developed together with standardized application and evaluation parameters. A key objective of this study is to generate a protocol that serves as a template for future clinical trials in the regenerative therapy of damaged peripheral nerves. The results of the multidisciplinary research will feed into the establishment of artificial biohybrid devices as stand alone alternatives to accepted standard procedures and tools. Furthermore, standardized application guidelines and evaluation parameters will be set up to enable continuous progress and evaluation of the outcome of clinical application.

Abbreviations: BIOHYBRID

Synonyms: Biohybrid templates for peripheral nerve regeneration

Resource Type: consortium, data or information resource, organization portal, portal

Keywords: device, treatment, peripheral nerve, neuronal regeneration, neurosurgery, axon, clinical trial, preclinical, nerve device, regeneration, repair, artificial nerve, regenerative therapy

Funding: European Union FP7

Resource Name: BIOHYBRID

Resource ID: SCR_003838

Alternate IDs: nlx_158152

Record Creation Time: 20220129T080221+0000

Record Last Update: 20260912T195603+0000

Ratings and Alerts

No rating or validation information has been found for BIOHYBRID.

No alerts have been found for BIOHYBRID.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Garcia-Sanz C, et al. (2026) Design of a Magnesium Microstructured Biohybrid Material for Practical Atmospheric CO2 Mitigation. ACS applied energy materials, 9(4), 2248.

Andrew N, et al. (2025) Charge Capacitive Signatures at the Interface of E. coli/MOF Biohybrids to Create a Live Cell Biocapacitor. Small (Weinheim an der Bergstrasse, Germany), 21(22), e2411472.

Collu R, et al. (2025) Development of an electrical current stimulator for controlling biohybrid machines. Scientific reports, 15(1), 22473.

Tobal R, et al. (2024) Dephosphorylated uncarboxylated Matrix-Gla-Protein as candidate biomarker for immune-mediated vascular remodeling and prognosis in pulmonary hypertension. Scientific reports, 14(1), 26633.

Xiao S, et al. (2024) The application of bacteria-nanomaterial hybrids in antitumor therapy. Journal of nanobiotechnology, 22(1), 536.

Mehta AS, et al. (2024) Decellularized Biohybrid Nerve Promotes Motor Axon Projections. Advanced healthcare materials, 13(30), e2401875.

Jaminon AMG, et al. (2021) Development of the BioHybrid Assay: Combining Primary Human Vascular Smooth Muscle Cells and Blood to Measure Vascular Calcification Propensity. Cells, 10(8).

Aldemir Dikici B, et al. (2020) Boosting the Osteogenic and Angiogenic Performance of Multiscale Porous Polycaprolactone Scaffolds by In Vitro Generated Extracellular Matrix Decoration. ACS applied materials & interfaces, 12(11), 12510.