



2022/2023

Cap'n

Mac Ion





For the attention of interested partners and potential investors

The contributions of Biomagnetik Park for global breakthrough of quantum sensing – based magnetocardiography 2022/23

We will lead the next megatrend, see Nature May 2023: [Quantum sensors will start a revolution - if we deploy them right](#)



bmp CS MAG III
owned by bmp at
Charité Berlin,
Cardiology,
Campus Benjamin
Franklin




We have five
brand new MCG
core components
for new MCG
platforms in stock.

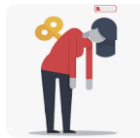


BASIC ALGORITHM TECHNOLOGY OF BMP

In the last 24 months bmp has made major progress with its basic algorithm technology:

- Improvement of all bmp algorithms through the use of novel parameters based on recent findings
 - Global attention of the results achieved with first-class partners
 - Growing cardiologist confidence in MCG
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INFORMATION ON THE LATEST DIAGNOSTIC BREAKTHROUGHS



POST-COVID DISEASE DETECTION with a sensitivity of 87.5% - determined by a recent pilot study at Charité Berlin. The benefits for research into the causes of PCD and the development of effective therapies will be enormous. In particular, this applies to therapies based on the [research results of Prof. Andrew R. Marks, Columbia University](#). Please request for Teaser "PCD Diagnosis 2023 Nov".



PREDICTION OF SUDDEN CARDIAC DEATH for patients with acute chest pain with an accuracy of 90.9% based on 191 endpoints (MCG datasets of Yonsei Seoul); [see publication in Frontiers in Cardiovascular Medicine, 2023 Dec](#), EU-patent pending.




MYOCARDITIS DIAGNOSTICS determined with a specificity of 95.0%; see [Charité publication in Journal of the American Heart Association, 2023 Feb](#), US patent pending.



FUNDAMENTALLY
IMPORTANT
PENDING PATENTS
2022 and 2023

The following particularly important patent applications (pending) are not yet publicly available:

- Magnetoinography procedure (USA), pending since 2022
 - Diagnostics myocarditis (USA), 50:50 bmp-Charité, pending since 2022
 - Prognosis of sudden cardiac death (EU), 50:50 Yonsei-bmp, pending since 2023
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LINK-LIST OF PUBLICATIONS OF THE LAST 12 MONTHS

[Application of Magnetocardiography to Screen for Inflammatory Cardiomyopathy and Monitor Treatment Response](#), JAHA, 2023 February

[Magnetocardiography for the detection of myocardial ischemia](#), Frontiers Cardiovascular Medicine, 2023 July

[Case report: Magnetocardiography as a potential method of therapy monitoring in amyloidosis](#), Frontiers Cardiovascular Medicine, 2023 August

[Case report: Recurrence of inflammatory cardiomyopathy detected by magnetocardiography](#), Frontiers Cardiovascular Medicine, 2023 September

[Cardiac magnetic field map topology quantified by Kullback–Leibler entropy identifies patients with clinically suspected myocarditis](#), Frontiers Cardiovascular Medicine, 2023 November

[Magnetocardiography at rest predicts cardiac death in patients with acute chest pain](#), Frontiers Cardiovascular Medicine, 2023 December

[The Inflammatory Spectrum of Cardiomyopathies](#), Frontiers Cardiovascular Medicine, accepted 2024 January

Further fundamental publications are in preparation or in the review process.

VALID APPROVALS AND VALID AND PENDING PATENTS BEFORE 2022

Valid FDA 510k clearance as a clinical research device (USA), 2013:

<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/pmn.cfm?ID=K121825>

Patent Monopolarity index as basis bmp basic algorithm (EU), granted 2019:

<https://patents.google.com/patent/EP3308703B1/de>


Patent Vector MCG as basis bmp basic algorithm (EU), pending:

<https://patents.google.com/patent/EP3207866A1/en>

Patent non-magnetic ergometer for CMF measurements under stress (USA, KR, HK, EU), granted 2016-18:

<https://patents.justia.com/patent/10004412>

Please request for complete list



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