

After-effect induced by microwave radiation in human electroencephalographic signal : a feasibility study

Bachmann, Maie; Päeske, Laura; Ioannides, Andreas A.; Lass, Jaanus; Hinrikus, Hiie International journal of radiation biology 2018 / p. 896–901 : ill <https://doi.org/10.1080/09553002.2018.1478164> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of electroencephalographic signal based measures for early detection of depression symptoms in occupational health = Elektroentsefalograafilisel signaalil põhinevate indikaatorite kasutamine depressiooni sümptomite varaseks avastamiseks töötervishoius

Pöld, Toomas 2021 https://www.ester.ee/record=b5473276*est <https://digikogu.taltech.ee/et/Item/c9b2a014-84fc-4003-88a2-85836830038a> <https://doi.org/10.23658/taltech.61/2021>

Assessment of electroencephalographic measures applied in the detection of depression = Depressiooni avastamiseks kasutatavate elektroentsefalograafilise signaali mõõdikute analüüs

Päeske, Laura 2021 https://www.ester.ee/record=b5411747*est <https://digikogu.taltech.ee/et/Item/44751b09-b47f-4757-847f-dd0f1d39b91b> <https://doi.org/10.23658/taltech.17/2021>

Assessment of objective symptoms of depression in occupational health examination

Pöld, Toomas; Päeske, Laura; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie Journal of occupational and environmental medicine 2019 / p. 605–609 <https://doi.org/10.1097/JOM.0000000000001622> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Audiovisual emotion recognition in wild

Avots, Egils; Sapinski, Tomasz; Bachmann, Maie; Kaminska, Dorota Machine Vision and Applications 2019 / p. 975–985 : ill <https://doi.org/10.1007/s00138-018-0960-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biomeditsiinitehnika - tehnoloogia tervise heaks

Hinrikus, Hiie; Bachmann, Maie; Pilt, Kristjan; Meigas, Kalju; Fridolin, Ivo Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 48–58 : ill https://www.ester.ee/record=b5208765*est

Biosignaali töötlemise uurimisrühm = Biosignal Processing Research Group

Bachmann, Maie Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiate instituuti ning Eesti Biomeditsiinitehnika ja Meditsiinfüüsika Ühingu = Health technologies yesterday, today and tomorrow : 30 years of the Department of Health Technologies and the Estonian Society for Biomedical Engineering and Medical Physics 2024 / lk. 37–41, p. 35–39 : ill

Brain functional connectivity in depression : gender differences in EEG

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Hinrikus, Hiie; Järveld, Mari 2016 IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES) : Kuala Lumpur, 4–8 December 2016 2016 / p. 270–273 : ill <https://doi.org/10.1109/IECBES.2016.7843456>

Brain stimulation by modulated microwave radiation: a feasibility study

Bachmann, Maie; Bachmann, Jaanus; Ioannides, Andreas A.; Hinrikus, Hiie 2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med), 10–13 Sept. 2018 2018 / 2 p <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8526055&tag=1>

Changes in EEG measures of a recipient of the mRNA COVID-19 vaccine - a case study

Uudeberg, Tuuli; Hinrikus, Hiie; Päeske, Laura; Lass, Jaanus; Bachmann, Maie 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2022 / p. 3702–3705 <https://doi.org/10.1109/EMBC48229.2022.9871524> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Cognitive disorders in patients with chronic kidney disease : approaches to prevention and treatment

Pepin, Marion; Klimkowicz-Mrowiec, Aleksandra; Godefroy, Oliver; Delgado, Pilar; Carriazo, Sol; Ferreira, Ana Carina; Golenia, Aleksandra; Malyszko, Jolanta; Grodzicki, Tomasz; Giannakou, Konstantino; Andrade, Alexandre; Bachmann, Maie; Fridolin, Ivo European Journal of Neurology 2023 / p. 2899–2911 : ill <https://doi.org/10.1111/ene.15928>

Cognitive disorders in patients with chronic kidney disease : specificities of clinical assessment

Pepin, Marion; Ferreira, Ana Carina; Arici, Mustafa; Bachmann, Maie; Barbieri, Michelangela; Bumblyte, Inga Arune Nephrology Dialysis Transplantation 2022 / p. ii23–ii32 <https://doi.org/10.1093/ndt/gfab262> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Correlation between EEG functional connectivity and fasting blood glucose in healthy subjects

Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie 2024 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2024 / p. 1–4 <https://ieeexplore.ieee.org/document/10781613> <https://doi.org/10.1109/EMBC53108.2024.10781613> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Correlation between electroencephalographic markers in the healthy brain

Päeske, Laura; Uudeberg, Tuuli; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie Scientific reports 2023 / art. 6307

Dependence of the EEG nonlinear coupling on the frequency bands and the segment lengths

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järvelaid, Mari; **Raik, Jaan; Hinrikus, Hiie** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 799-802 https://doi.org/10.1007/978-981-10-5122-7_200 Conference proceedings at Scopus Article at Scopus Article at WOS

Detection of the effect of weak stressors on human resting electroencephalographic signal = Nõrkade stressorite mõju avastamine inimese puhkeoleku elektroentsefalograafilises signaalis
Suhhova, Anna 2012

Detrended fluctuation analysis of EEG in depression

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Aadamsoo, Kaire; Võhma, Ülle; **Hinrikus, Hiie-Agnes** XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, 25-28 September 2013, Seville, Spain 2014 / p. 694-697 https://doi.org/10.1007/978-3-319-00846-2_172 Conference proceedings at Scopus Article at Scopus

Editorial: Innovations in depression diagnosis and treatment outcome monitoring

Čukić, Milena B.; Savić, Danko; **Bachmann, Maie** Frontiers in digital health 2023 / art. 1224999, 3 p
<https://doi.org/10.3389/fdgth.2023.1224999> Journal metrics at Scopus Article at Scopus Article at WOS

EEG analyzer prototype based on FPGA

Jenihhin, Maksim; Gorev, Maksim; Pesonen, Vadim; Mihhailov, Dmitri; Ellervee, Peeter; Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus 7th International Symposium on Image and Signal Processing and Analysis (ISPA 2011) : September 4-6, 2011, Dubrovnik, Croatia : proceedings 2011 / p. 101-106 : ill <https://ieeexplore.ieee.org/document/6046588>

EEG functional connectivity detects seasonal changes

Päeske, Laura; Bachmann, Maie; Raik, Jaan; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 237-240 https://doi.org/10.1007/978-981-10-9038-7_44 Conference Proceedings at Scopus Article at Scopus Article at WOS

EEG spectral asymmetry index detects differences between leaders and non-leaders

Pöld, Toomas; Bachmann, Maie; Orgo, Laura; Kalev, Kaia; Lass, Jaanus; Hinrikus, Hiie EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 17-20 https://doi.org/10.1007/978-981-10-5122-7_5 Conference proceedings at Scopus Article at Scopus Article at WOS

EEG spectral asymmetry index for detection of depression at individual and fixed frequency bands [Electronic resource]

Suhhova, Anna; Bachmann, Maie; Lass, Jaanus; Aadamsoo, Kaire; Võhma, Ülle; **Hinrikus, Hiie** World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2012 / p. 589-592 : ill [CD-ROM]
https://link.springer.com/chapter/10.1007/978-3-642-29305-4_154 Conference Proceedings at Scopus Article at Scopus

EEG spectral asymmetry is dependent on education level of men

Pöld, Toomas; Bachmann, Maie; Päeske, Laura; Kalev, Kaia; Lass, Jaanus; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 405-408
https://doi.org/10.1007/978-981-10-9038-7_76 Conference Proceedings at Scopus Article at Scopus Article at WOS

Effect of 450 MHz microwave modulated with 217 Hz on human EEG in rest

Bachmann, Maie; Säkki, Maksim; Kalda, Jaan; Lass, Jaanus; Tuulik, Viuu; Hinrikus, Hiie The environmentalist 2005 / 2/4, p. 165-171

Effect of coffee on EEG spectral asymmetry

Saifudinova, Maie; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada 2015 / p. 1030-1033 https://doi.org/10.1007/978-3-319-19387-8_251 Conference proceedings at Scopus Article at Scopus Article at WOS

Effect of microwave radiation on human EEG at two different levels of exposure

Suhhova, Anna; Bachmann, Maie; Karai, Deniss; Lass, Jaanus; Hinrikus, Hiie Bioelectromagnetics 2012 / p. 264 - 274 : ill
<https://doi.org/10.1002/bem.21772> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of modulated microwave radiation on electroencephalographic rhythms and cognitive processes

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu Estonian journal of engineering 2008 / 2, p. 91-106 : ill

Effect of modulated microwave radiation on human resting electroencephalographic signal = Moduleeritud mikrolainekiirguse mõju inimese puhkeoleku elektroentsefalograafilisele signaalile

Bachmann, Maie 2008 http://www.ester.ee/record=b2373842*est

Effect of negative and positive emotions on EEG spectral asymmetry

Päeske, Laura; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / p. 8107 - 8110 <https://doi.org/10.1109/EMBC.2015.7320275> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Effect of the microwave radiation on human EEG at different modulation frequencies [Electronic resource]

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viu Medicon and Health Telematics 2004 "Health in the Information Society" : Xth Mediterranean Conference on Medical and Biological Engineering : July 31 - August 5, 2004, Ischia, Naples-Italy 2004 / [4] p. : ill. [CD-ROM]

Electroencephalography as an objective indicator of stress

Gavriljuk, Marietta; Uudeberg, Tuuli; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Bachmann, Maie 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 221–226 https://doi.org/10.1007/978-3-031-37132-5_28 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Ensemble approach for detection of depression using EEG features

Avots, Egils; Jermakovs, Klavs; Bachmann, Maie; Päeske, Laura; Ozcinar, Cagri; Anbarjafari, Gholamreza Entropy 2022 / art. 211 <https://doi.org/10.3390/e24020211> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Erratum: Cognitive disorders in patients with chronic kidney disease: specificities of clinical assessment (Nephrol Dial Transplant DOI: 10.1093/ndt/gfab262)

Pépin, Marion; Ferreira, Ana Carina; Arici, Mustafa; Bachmann, Maie; Barbieri, Michelangela; Bumblyte, Inga Arune; Carriazo, Sol; Delgado, Pilar; Garneata, Liliana; Giannakou, Konstantinos Nephrology dialysis transplantation 2022 / 1 p <https://doi.org/10.1093/ndt/gfab339> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fractal analysis of electrophysiological signals to detect and monitor depression : what we know so far?

Čukić, Milena; Olejarczyk, Elzbieta; Bachmann, Maie The Fractal Geometry of the Brain 2024 / p. 677 - 692 https://doi.org/10.1007/978-3-031-47606-8_34 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Helgem vanadus teaduse toel

Uusen, Kaire Tervis Pluss 2021 / lk. 69-71 : fot https://www.ester.ee/record=b1453514*est <https://tervispluss.delfi.ee/artikkel/94545003/helgem-vanadus-teaduse-toel>

Higuchi's fractal dimension for analysis of the effect of microwave exposure in depression

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Adamsoo, Kaire; Vöhma, Ülle; Hinrikus, Hiie Proceedings : 7th International Workshop on Biological Effects of Electromagnetic Field : October 2012 (Malta) 2012 / 4 p. : ill

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

Uudeberg, Tuuli; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie Scientific Reports 2025 / art. 28426 <https://doi.org/10.1038/s41598-025-13614-y>

Influence of acute mental stress on the forehead photoplethysmographic signal waveform

Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Fridolin, Ivo 19th Nordic-Baltic conference on biomedical engineering and medical physics : proceedings of NBC 2023, June 12-14, 2023, Liepaja, Latvia 2023 / p. 181 - 188 https://doi.org/10.1007/978-3-031-37132-5_23 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Influence of mental stress on the arterial stiffness parameters detected from photoplethysmographic signal waveform

Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Allik, Ardo; Uudeberg, Tuuli 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 4 p <https://doi.org/10.1109/BEC56180.2022.9935609>

In-phase matrix profile : a novel method for the detection of major depressive disorder

Uudeberg, Tuuli; Belikov, Juri; Päeske, Laura; Hinrikus, Hiie; Liiv, Innar; Bachmann, Maie Biomedical Signal Processing and Control 2024 / art. 105378 <https://doi.org/10.1016/j.bspc.2023.105378> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lempel Ziv complexity of EEG in depression

Bachmann, Maie; Kalev, Kaia; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie 6th European Conference of the International Federation for Medical and Biological Engineering, MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia 2015 / p. 58-61 : ill https://doi.org/10.1007/978-3-319-11128-5_15 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Lempel-Ziv and multiscale Lempel-Ziv complexity in depression

Kalev, Kaia; Bachmann, Maie; Päeske, Laura; Lass, Jaanus; Hinrikus, Hiie 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / art. 7319310 <https://doi.org/10.1109/EMBC.2015.7319310> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Limiting exposure to radiofrequency radiation : the principles and possible criteria for health protection

Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie International Journal of Radiation Biology 2023 / p. 1167-1177 <https://doi.org/10.1080/09553002.2023.2159567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Linnaplaneerimise heaolu skoor mõõdab, mida linnaelanikud tegelikult tunnevad

Fridolin, Ivo; Pilt, Kristjan; Bachmann, Maie; Grišakov, Kristi; Tärnov, Külle; Sternfeldt, Silver Mente et Manu 2022 / lk. 24-26 : fot https://www.ester.ee/record=b1242496*est

Long-term stability of EEG spectral asymmetry index - preliminary study

Uudeberg, Tuuli; Päeske, Laura; Pöld, Toomas; Lass, Jaanus; Hinrikus, Hiie; Bachmann, Maie XV Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019 : proceedings of MEDICON 2019, September 26–28, 2019, Coimbra, Portugal 2020 / p. 276-281 https://doi.org/10.1007/978-3-030-31635-8_33 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Long-term stability of resting state EEG-based linear and nonlinear measures

Pöld, Toomas; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie International journal of psychophysiology 2021 / p. 83-87 <https://doi.org/10.1016/j.jpsycho.2020.11.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanism of low-level microwave radiation effect on brain : frequency limits

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 647-650 https://doi.org/10.1007/978-981-10-5122-7_162 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Mechanism of low-level microwave radiation effect on nervous system

Hinrikus, Hiie; Bachmann, Maie; Karai, Denis; Lass, Jaanus Electromagnetic biology and medicine 2017 / p. 202-212 <https://doi.org/10.1080/15368378.2016.1251451> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust

Velthut-Meikas, Agne; Bachmann, Maie; Leoste, Janika; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit goodnews.ee 2023 [Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust](#)

Method for testing the brain

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu; Ubar, Raimund-Johannes 5th European Conference of the International Federation for Medical and Biological Engineering : 14-18 September 2011, Budapest, Hungary 2012 / p. 1198-1201 : ill

Methods for classifying depression in single channel EEG using linear and nonlinear signal analysis

Bachmann, Maie; Päeske, Laura; Kalev, Kaia; Aarma, Katrin; Lehtmet, Andres; Ööpik, Pille; Lass, Jaanus; Hinrikus, Hiie Computer methods and programs in biomedicine 2018 / p. 11-17 : ill <https://doi.org/10.1016/j.cmpb.2017.11.023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microwave effect on diffusion: A possible mechanism for non-thermal effect

Hinrikus, Hiie; Lass, Jaanus; Karai, Denis; Pilt, Kristjan; Bachmann, Maie Electromagnetic Biology and Medicine 2015 / p. 327 - 333 <https://doi.org/10.3109/15368378.2014.921195> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microwave radiation has modulation frequency dependent stimulating effect on human EEG rhythms

Lass, Jaanus; Hinrikus, Hiie; Bachmann, Maie; Tuulik, Viuu Proceedings of the 26th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : San Francisco, CA, USA, September 1-5, 2004. Vol. 2 2004 / p. 4225-4228 : ill <https://pubmed.ncbi.nlm.nih.gov/17271236/>

The need for a multi-disciplinary reflection about frailty and cognitive impairment in chronic kidney disease

Farisco, Michele; Zecchino, Irene; Capasso, Giovambattista; Bachmann, Maie; Fridolin, Ivo Nephrology Dialysis Transplantation 2023 / p. 1064–1066 <https://doi.org/10.1093/ndt/gfac334>

Negative correlation between functional connectivity and small-worldness in the alpha frequency band of a healthy brain

Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Raik, Jaan; Bachmann, Maie Frontiers in Physiology 2020 / Art. nr. 910 <https://doi.org/10.3389/fphys.2020.00910> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Non-linear analysis of the electro-encephalogram for detecting effects of low-level electromagnetic fields

Bachmann, Maie; Kalda, Jaan; Lass, Jaanus; Tuulik, Viuu; Säkki, Maksim; Hinrikus, Hiie Medical & biological engineering & computing 2005 / 1, p. 142-149 : ill <https://link.springer.com/article/10.1007/BF02345136>

Non-thermal effect of microwave radiation on human brain

Hinrikus, Hiie; Bachmann, Maie; Tomson, Ruth; Lass, Jaanus The environmentalist 2005 / 2/4, p. 187-194 https://www.researchgate.net/publication/227317313_Non-Thermal_Effect_of_Microwave_Radiation_on_Human_Brain

Parametric mechanism of excitation of the electroencephalographic rhythms by modulated microwave radiation

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus International journal of radiation biology 2011 / p. 1077-1085 : ill
<https://pubmed.ncbi.nlm.nih.gov/21913816/>

Possible health effects on the human brain by various generations of mobile telecommunication: a review based estimation of 5G impact

Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie International Journal of Radiation Biology 2022 / p. 1210-1221 <https://doi.org/10.1080/09553002.2022.2026516> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Power spectrum distinguishes the effect of microwave stimulation on human EEG at rest

Bachmann, Maie; Kalda, Jaan; Lass, Jaanus; Tuulik, Viie; Hinrikus, Hiie Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 1 2004 / p. 75-80 : ill

Quasi-thermal effect of microwave radiation

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 1 2004 / p. 74

Relationship of the correlation between EEG and heart rate variability with cardiovascular indicators

Vihmaru, Merilin; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Põld, Toomas; Bachmann, Maie 9th European Medical and Biological Engineering Conference : Proceedings of EMBEC 2024 ; Volume 2 2024 / p. 266 - 273
<https://www.springerprofessional.de/en/relationship-of-the-correlation-between-eeeg-and-heart-rate-variability-with-cardiovascular-indicators/27164904> https://doi.org/10.1007/978-3-031-61628-0_29 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Reliability of electroencephalogram-based individual markers - case study

Uudeberg, Tuuli; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2020 / p. 276 - 279 <https://doi.org/10.1109/EMBC44109.2020.9175274>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Resting EEG functional connectivity and graph theoretical measures for discrimination of depression

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järveld, Mari; Raik, Jaan; Hinrikus, Hiie 4th IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2017 : Orlando, Florida, USA, 16-19 February 2017 / p. 389-392 : ill
<https://doi.org/10.1109/BHI.2017.7897287>

Revealing small hidden changes in human EEG by Higuchi's fractal dimension

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvia : [abstracts] 2012 / p. 661 : ill https://link.springer.com/chapter/10.1007/978-3-642-34197-7_12

Revealing small hidden changes in human EEG by Higuchi's fractal dimension [Electronic resource]

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie IFMBE proceedings ; Vol. 38 2013 / p. 47-50 : ill [CD-ROM]
https://doi.org/10.1007/978-3-642-34197-7_12 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Selection of EEG frequency bands for detection of depression

Kalev, Kaia; Bachmann, Maie 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 55-58 https://doi.org/10.1007/978-3-319-12967-9_15 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Sensitivity of human EEG to modulation frequency of microwave radiation [Electronic resource]

Tomson, Ruth; Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viie IFMBE proceedings 2005 / [5] p. [CD-ROM]

Single channel EEG analysis for detection of depression

Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie Biomedical signal processing and control 2017 / p. 391-397 : ill
<https://doi.org/10.1016/j.bspc.2016.09.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spectral asymmetry and Higuchi's fractal dimension measures of depression electroencephalogram

Bachmann, Maie; Lass, Jaanus; Suhhova, Anna; Hinrikus, Hiie Computational and Mathematical Methods in Medicine 2013 / art. 251638 <https://doi.org/10.1155/2013/251638> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spectral asymmetry index and Higuchi's fractal dimension for detecting microwave radiation effect on electroencephalographic signal

Bachmann, Maie; Lass, Jaanus; Suhhova, Anna; Hinrikus, Hiie Proceedings of the Estonian Academy of Sciences 2014 / p. 234-239 : ill https://artiklid.elnet.ee/record=b2680563*est

Surrogate data method requires end-matched segmentation of electroencephalographic signals to estimate non-linearity

Päeske, Laura; Bachmann, Maie; Pöld, Toomas; Oliveira, Sara Pereira Mendes de; Lass, Jaanus; **Raik, Jaan; Hinrikus, Hiie** Frontiers in physiology 2018 / 1350 ; 9 p. : ill <https://doi.org/10.3389/FPHYS.2018.01350> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Temporal stability and correlation of EEG markers and depression questionnaires scores in healthy people
Pöld, Toomas; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie Scientific reports 2023 / art. 21996
<https://doi.org/10.1038/s41598-023-49237-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of the natural level of blood biochemicals on electroencephalographic markers in healthy people
Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie Sensors 2024 / art. 7438
<https://doi.org/10.3390/s24237438> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Threshold of radiofrequency electromagnetic field effect on human brain
Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie International journal of radiation biology 2021 / p. 1505-1515 : ill
<https://doi.org/10.1080/09553002.2021.1969055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Understanding physical mechanism of low-level microwave radiation effect
Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus International journal of radiation biology 2018 / p. 877–882 : ill
<https://doi.org/10.1080/09553002.2018.1478158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)