1. Name and family name

Grzegorz Tatoń

2. Address:

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3. Status

Married, two children

4. Scientific degrees

- Master of Sciences in Physics; 1994; Jagiellonian University, Faculty of Mathematics and Physics, Experimental Computer Physics Department; *"Analysis of Blood Flow through the Mitral Valve in the Early Diastole"*
- Doctor of Philosophy in Physics; 2000; Jagiellonian University, Faculty of Mathematics and Physics, Department of Nuclear Physics; *„X-Rays in the Quantitative Studies of Bone Tissue*"
- Habilitation in medical biology from the Faculty of Medicine at Jagiellonian University Medical College (2016).

5. Employment in Scientific Institutions

- trainee-assistant; 1994 - 1995; Jagiellonian University, Faculty of Mathematics and Physics, Experimental Computer Physics Department
- PhD studies; 1994 - 1999; Jagiellonian University, Faculty of Mathematics and Physics, Department of Nuclear Physics
- technician-engineering employee; 1997 - 1999; Jagiellonian University Medical College, Faculty of Medicine, Chair and Department of Histology; half time job
- assistant; 1999 - 2002; Jagiellonian University Medical College, Faculty of Medicine, Chair of Physiology, Department of Biophysics
- assistant professor; 2002 - 2012; Jagiellonian University Medical College, Faculty of Medicine, Chair of Physiology, Department of Biophysics
- senior lecturer; 2012 – 2016; Jagiellonian University Medical College, Faculty of Medicine, Chair of Physiology, Department of Biophysics
- assistant professor; 2016 – 2023; Jagiellonian University Medical College, Faculty of Medicine, Chair of Physiology, Department of Biophysics
- **professor; head of the department; 2023 – until now,** Jagiellonian University Medical College, Faculty of Medicine, Chair of Physiology, Department of Biophysics

6. Other

- Member of the committee of the Polish Academy of Sciences for cooperation with URSI (International Union of Radio Science URSI). Vice-Chair of the K Committee on Electromagnetics in Biology and Medicine.
- Member of "Polskie Towarzystwo Zastosowań Elektromagnetyzmu" (Polish Society of Electromagnetism Applications)

7. The main areas of scientific interest

- research on physiological and pathological mineralization processes in the human body
- imaging diagnostics with a particular focus on the use of digital image analysis and 3D imaging,
- the effect of electromagnetic fields on the human body.

8. Scientific papers (last 10 years)

1. Rok T, Rokita E, **Tatoń G**, Guzik T, Śliwa T, Thermographic assessment of skin prick tests in comparison with the routine evaluation methods, Advances in Dermatology and Allergology, 2016, XXXIII (3): 193-198
2. Rok T, Rokita E, **Tatoń G**, Guzik T, Śliwa T, Thermographic imaging as alternative method in allergy diagnosis, J Therm Anal Calorim, 2017, 127(2): 1163-1170
3. Pękala P, Henry B, Ochała A, Kopacz P, **Tatoń G,** Młyniec A, Walocha J, Tomaszewski K, The twisted structure of Achilles tendon unraveled: A detailed quantitative and qualitative anatomical investigation, Scand J Med Sci Sports, 2016, DOI: 10.1111/sms.12835
4. Rokita E, Rok T, **Taton G**, Application of digital imaging for quantitative assessment of wheal formation, IFMBE proceedings, 2018, 65: 1053-1056
5. **Tatoń G**, Ziomber A, Rokita E, Ciesielczyk K, Thor P, Adipose Tissue Quantification in Rats with the Use of Computed Tomography, Curr Med Imaging Rev, 2018, 14: 53-58
6. Nurzynska K, Piórkowski A, Bielecka M, Obuchowicz R, **Tatoń G**, Suicka J, Korkosz M, Automatical Syndesmophyte Contour Extraction from Lateral C Spine Radiographs. Recent Developments and Achievements in Biocybernetics and Biomedical Engineering, Advances in Intelligent Systems and Computing 647, DOI 10.1007/978-3-319-66905-2 14
7. Kacprzyk A, Kocoń S, Składzień J, Rokita E, Pawlak R, Kwiecień J, **Tatoń G**, Does the short-term exposure to radiofrequency electromagnetic field originating from mobile phone affect auditory functions as measured by Acoustic Admittance and Evoked Otoacoustic Emission tests? Electromagnetic Biology and Medicine, 2020, 39(4): 411-418, DOI: 10.1080/15368378.2020.1826960
8. Kacprzyk A, Kanclerz G, Rokita E, **Tatoń G**, Which sources of electromagnetic field are of the highest concern for electrosensitive individuals? – Questionnaire study with a literature review, 2020, Electromagnetic Biology and Medicine, 2021, 40(1):33-40 DOI: 10.1080/15368378.2020.1839489
9. Kacprzyk A, Stefura T, Krzysztofik M, Rok T, Rokita E, **Tatoń G**, The impact of mobile phone use on tinnitus – systematic review and meta-analysis, Bioelectromagnetics, 2021, 42(2): 105-114, DOI: 10.1002/bem.22316

10. Dziob D, Lisowski B, Rok T, Wójcik-Piotrowicz K, **Tatoń G**, Dear MD: Physics can be useful (and fun too)!, Medical Education, 2021, DOI: 10.1111/medu.14501
11. Pękala P, Mizia E, Mann M, Wagner-Olszewska I, Mostowy M, **Tatoń G**, Domażalski M, The popliteofibular ligament: a cadaveric ultrasound study, Skeletal Radiology, 2022, 183-189
12. Dziob D, Młynarczyk M, Rok T, **Tatoń G**, Lisowski B, Physics Doesn't Bite—A Simple Experiment for Introducing Biomechanical Operational Principles of the Temporomandibular Joint, Journal of Biomechanical Engineering, 2021, 55(5): 629-30
13. **Tatoń G**, Kacprzyk A, Rok T, Pytlarz M, Pawlak R, Rokita E, A survey on electromagnetic hypersensitivity: the example from Poland, Electromagnetic Biology and Medicine, 2022, 41(1): 52-59, DOI: 10.1080/15368378.2021.1995873
14. **Tatoń G**, Kacprzyk A, Rok T, Wasik A, Siwek M, Is the hypersensitivity to electromagnetic fields caused by a physical mechanism or is it a psychological problem?, The Electrotechnical Review (Przegląd elektrotechniczny), 2023, 1: 215-19
15. Grad P, Przeklasa-Borowiec A, Malinowski K, Witowski J, Proniewska K, **Taton G**, Application of HoloLens-based Augmented Reality and three-dimensional printed anatomical tooth reference models in dental education, Anatomical Sciences Education, 2022, 00, 1–13, https://doi.org/10.1002/ase.2241
16. **Tatoń G**, Skórkiewicz K, Kijak P, Pawlak R, Impact of safe permissible limits on the background level of the radiofrequency electromagnetic field, IEEE, 2023 (2023 Progress in Applied Electrical Engineering (PAEE), Koscielisko (Zakopane), Poland, June 26-30)
17. Gabryś P, Pytlarz M, Koźlak M, Gądek A, Korkosz M, Liszka H, **Tatoń G**, Artificial Intelligence and Machine Learning Algorithms in Diagnosis and Therapy of the Ankle Joint, J Sports Med Phys Fitness, 2024, 64(12): 1329-39, DOI: 10.23736/S0022-4707.24.15759-3
18. Rok T, Kacprzyk A, Rokita E, Kantor D, **Tatoń G**, Quantitative assessment of thermal effects on the auricle region caused by mobile phones operating in different modes, AIMS Biophysics, 2024, 11(4): 427-444
19. Rokita E, **Tatoń G**, Prediction of vertebral body mechanical parameters using opportunistic CT data, Polish J Medical Physics and Engineering, 30(4) 2024, 239-248, ISSN 1898-0309, doi: 10.2478/pjmpe-2024-0028
20. Kijak P, Skórkiewicz K, Pawlak R, **Tatoń G**, Have the new safety limits and the introduction of 5G technology increased the background of the electromagnetic field in the radio frequency range?, The Electrotechnical Review (Przegląd elektrotechniczny), 2025, 3: 178-81
21. Kantor D, Kanclerz G, **Tatoń G**, Is the occurrence of electromagnetic hypersensitivity related to sensitivity to air pollution and weather factors?, AIMS Biophysics, 2025, 12(2): 259-272
22. Undas K, Kanclerz G, Popielak J and **Tatoń G**, Experience of Polish Physicians on Electromagnetic Hypersensitivity, 2025 Progress in Applied Electrical Engineering (PAEE), Koscielisko, Poland, 2025, pp. 1-4, doi: 10.1109/PAEE68231.2025.11155985
23. Gabryś D, Łapińska N, Mendyk A, **Tatoń G**, Assessment of X-ray ankle joint image projection correctness with the use of machine learning algorithms, Polish J Radiol, 2025, 90: 451-457