Personal information	
Name, Surname	**Mihaela Hedesiu**
Email	mhedesiu@umfcluj.ro
Professional profiles	ResearchGate: https://www.researchgate.net/profile/Mihaela_Hedesiu2
Education	
Diploma 2003-2008 Diploma 2000 2004 2015	**Ph.D. in Medicine** , Specialty Dentistry, 2008. Thesis: "The CT examination of maxillofacial tumors", **Supervisor:** Prof. Dr. Fildan Floarea **Professional competences:** Ultrasonography Computer tomography IRM
Diploma 1990-1996	**Dental Practitioner Diploma** 'Iuliu Hatieganu' University of Medicine and Pharmacy, Cluj-Napoca, Romania
Diploma 1986-1992	**Medical Doctor Diploma** 'Iuliu Hatieganu' University of Medicine and Pharmacy, Cluj-Napoca, Romania
Professional experience	
2019-present 2012 – 2019 2015 2007-2011 2014-2017 2004 – 2010	**Professor** at the Department of Cranio-Maxillo-Facial Radiology, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania **Associate Professor** at the Department of Cranio-Maxillo-Facial Radiology, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania **Habilitation thesis** 'Guidelines for using CBCT in oral and maxillofacial pathology' file:///C:/Users/HH/Downloads/Rezumat_teza_abilitare_5.pdf Nr. 126995/30.10.2015: **Partner in European projects**: coordinator of the Romanian partner " *Enhanced Safety and Efficacy of New and Emerging Dental X-ray Imaging*" (SEDENTEX), grant agreement no- 212246, FP7: EURATOM Program ' *Dentomaxillofacial paediatric imaging: an investigation towards low dose radiation induced risks' DIMITRA project* , grant agreement 604984, FP7 Operra Program **Scientific Researcher** (UMF, Cluj-Napoca, Romania) as a member of the research teams in following projects: • Integrated Information System for diagnosis and monitoring of malignant maxillofacial nr 133/2004 VIASAN/2004-2007

	• Imaging Center for cranio-maxillofacial deformities - Project Platforms for laboratories CNCSIS 2006, cod CNCSIS 20, contract nr 7/2007, • Development of the infrastructure and research activities for innovative therapies in prosthetic implants and bone regeneration (OSTEOMAX) Program CEEX 2005 PC-D • Involvement of genetic polymorphisms in the development and progression of periodontitis. Defining the role of imaging techniques in the detection, assessment and monitoring of the disease, ID 470/2007, PNCDI II/ programul "Idei"
Professional Accomplishments	
Affiliations	- SRIM (since 2000) - EADMFR – European radiology of dento-maxillofacial radiology (since 2006) - ESHNR – European Society of Head and Neck radiology (since 2010)
Editorial board	Clinical Oral Investigation http://cloi.edmgr.com/
Reviewer ISI publications	Clinical Oral Investigation http://cloi.edmgr.com/ Oral radiology http://orra.edmgr.com/.
Awards	*„Bilascu" Awards* of UMF Cluj, 2010 for the entire scientific activity;
Skills	
Organisational skills	Head of Department of Maxillofacial surgery and radiology department, Faculty of Dentistry, UMFCLuj (since 2011) President of the 14th Congress of European Acadamy of Dento-maxillofacial Radiology (EADMFR), 2014 Cluj-Napoca file:///C:/Users/HH/Downloads/booklet_ECDMFR2014%20(1).pdf Coordinator of Romanian Congress of Oral and maxillofacial radiology 2003, 2007
Technical skills	Microsoft office
Languages Other skills	Romanian (native), English (B2), French (B1)
Scientific Results	
Patent	*The 3D ultrasonographic modeling method and Kit for the cervical periodontal space authors:* Chifor R. Badea M, Hedesiu M.:, *Nr. 126995/30.10.2015*
Books	Co-author : Floarea Fildan, Mihaela Hedesiu - Radiologia stomatologica. Notiuni de fizica si tehnica radiologica/, Editura Medicala Universitara"Iuliu Hatieganu" Cluj-Napoca, 2002 Author : 11 chapters in books *(2007-2015)*

Publications	**24 ISI-indexed; 19 BDI indexed**
Conferences	12 International and National Conferences (7 talks)

Publications:

1. Ioana Simon, Mihaela Hedesiu, Piroska Virag, Benjamin Salmon, Viorica Tarmure, Mihaela Baciut, Simion Bran, Reinhilde Jacobs & Alexandra Falamas Raman Micro-Spectroscopy of Dental Pulp Stem Cells: An Approach to Monitor the Effects of Cone Beam Computed Tomography Low-Dose Ionizing Radiation **Analytical Letters** ISSN: 0003-2719 (Print) 1532-236X (Online) Journal homepage: http://www.tandfonline.com/loi/lanl20 IF 1.208

2. Colceriu-Șimon IM, Hedeșiu M, Toma V, Armencea G, Moldovan A, Știufiuc G, Culic B, Țărmure V, Dinu C, Berindan-Neagoe I, Știufiuc RI, Băciuț M. The Effects of Low-Dose Irradiation on Human Saliva: A Surface-Enhanced Raman Spectroscopy Study. **Diagnostics (Basel).** 2019 Aug 22;9(3). pii: E101. doi: 10.3390/diagnostics9030101. **IF 2.489**

3. Coclici A, Hedeşiu M, Bran S, Băciuţ M, Dinu C, Rotaru H, Roman R. Early and long-term changes in the muscles of the mandible following orthognathic surgery. **Clin Oral Investig**. 2019 Sep;23(9):3437-3444. doi: 10.1007/s00784-019-03019-3. Epub 2019 Jul 27. **IF 2.386**

4. Vacaras S, Baciut M, Lucaciu O, Dinu C, Baciut G, Crisan L, Hedesiu M, Crisan B, Onisor F, Armencea G, Mitre I, Barbur I, Kretschmer W, Bran S. Understanding the basis of medical use of poly-lactide-based resorbable polymers and composites - a review of the clinical and metabolic impact. Drug Metab Rev. 2019 Nov;51(4):570-588. doi: 10.1080/03602532.2019.1642911. Epub 2019 Jul 24. **IF 4.45**

5. Oenning AC, Pauwels R, Stratis A, De Faria Vasconcelos K, Tijskens E, De Grauwe A, Jacobs R, Salmon B; Dimitra research group. Halve the dose while maintaining image quality in paediatric Cone Beam CT. Sci Rep. 2019 Apr 2;9(1):5521. doi: 10.1038/s41598-019-41949- **IF 4.011**

6. Belmans N, Gilles L, Virag P, Hedesiu M, Salmon B, Baatout S, Lucas S, Jacobs R, Lambrichts I, Moreels M. Method validation to assess in vivo cellular and subcellular changes in buccal mucosa cells and saliva following CBCT examinations. Dentomaxillofac Radiol. 2019 Sep;48(6):20180428. doi: 10.1259/dmfr.20180428. Epub 2019 Apr 5. **IF 1.848**

7. Ilea A, Butnaru A, Sfrângeu SA, Hedeșiu M, Dudescu CM, Boșca BA, Trombitaș VE, Câmpian RS, Albu S. Temporal bone trauma effects on auditory anatomical structures in mastoid obliteration. Eur Arch Otorhinolaryngol. 2019 Feb;276(2):513-520. doi: 10.1007/s00405-018-5227-6. Epub 2018 Dec 3. **IF 1.683**

8. Colceriu-Şimon IM, Băciuţ M, Ştiufiuc RI, Aghiorghiesei A, Ţărmure V, Lenghel M, Hedeşiu M, Băciuţ G. Clinical indications and radiation doses of cone beam computed tomography in orthodontics. Med Pharm Rep. 2019 Oct;92(4):346-351.

9. Manea A, Bran S, Baciut M, Armencea G, Pop D, Berce P, Vodnar DC, Hedesiu M, Dinu C, Petrutiu A, Tomina D, Baciut G.Sterilization protocol for porous dental implants made by Selective Laser Melting. Clujul Med. 2018 Oct;91(4):452-457. doi: 10.15386/cjmed-987. Epub 2018 Oct 30.

10. Faur CI, Roman RA, Bran S, Dinu C, Coclici A, Rotaru H, Hedesiu M. The Changes in Upper Airway Volume after Orthognathic Surgery Evaluated by Individual Segmentation on CBCT Images. Maedica (Buchar). 2019 Sep;14(3):213-219. doi: 10.26574/maedica.2019.14.3.213.

11. Virag P, Hedesiu M, Soritau O, Perde-Schrepler M, Brie I, Pall E, Fischer-Fodor E, Bogdan L, Lucaciu O, Belmans N, Moreels M, Salmon B, Jacobs R.Low-dose radiations derived from cone-beam CT induce transient DNA damage and persistent inflammatory reactions in stem cells from deciduous teeth. Dentomaxillofac Radiol. 2018 Aug 31:20170462. doi: 10.1259/dmfr.20170462. **IF 1.848**

12. Stratis A, Touyz N, Zhang G, Jacobs R, Bogaerts R, Bosmans H; DIMITRA project partners. Development of a paediatric head voxel model database for dosimetric applications. Br J Radiol. 2017;90:20170051. https://doi.org/10.1259/bjr.20170051 **IF 2.050**

13. Oenning AC, Salmon B, Vasconcelos KF, Nicolielo L, Lambrichts I, Sanderink G, Pauwels R; DIMITRA Group, Jacobs R. DIMITRA pediatric skull phantoms: development of age-specific pediatric models for dentomaxillofacial radiology research. Dentomaxillofac Radiol. 2017:20170285. https://doi.org/10.1259/dmfr.20170285 **IF 1.848**

14. Talmaceanu D, Lenghel LM, Bolog N, Hedesiu M, Buduru S, Rotar H, Baciut M, Baciut G. Imaging modalities for temporomandibular joint disorders: an update. Clujul Med. 2018 Jul;91(3):280-287. doi: 10.15386/cjmed-970. Epub 2018 Jul 31. Review.

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16. Marcu M, Hedesiu M, Salmon B, Pauwels R, Stratis A, Oenning ACC, Cohen ME, Jacobs R, Baciut M, Roman R, Dinu C, Rotaru H, Barbur I; DIMITRA Research Group. Estimation of the radiation dose for pediatric CBCT indications: a prospective study on ProMax3D**.** Int J Paediatr Dent. 2018 May;28(3):300-309. doi: 10.1111/ipd.12355. Epub 2018 Jan 22. **IF 1.383**

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19. Roman RA, Hedeşiu M, Gersak M, Fidan F, Băciuţ G, Băciuţ Assessing the prevalence of paranasal sinuses anatomical variants in patients with sinusitis using Cone Beam Computer Tomography. M. Clujul Med. 2016;89(3):419-21. doi: 10.15386/cjmed-598. Epub 2016 Jul 28.

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28. Christell H, Birch S, Hedesiu M, Horner K, Ivanauskaité D, Nackaerts O, Rohlin M, Lindh C; SEDENTEXCT consortium.Variation in costs of cone beam CT examinations among healthcare systems. Dentomaxillofac Radiol. 2012 Oct;41(7):571-7. Epub 2012 Apr 12. **IF 1.848**

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30. Almasan OC, Hedesiu M, Baciut G, Baciut M, Bran S, Jacobs R Nontraumatic bilateral bifid condyle and intermittent joint lock: a case report and literature review.J Oral Maxillofac Surg. 2011 Aug;69(8):e297-303. doi: 10.1016/j.joms.2011.03.072. Review. No abstract available. **IF 1.77**

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32. Chifor R, Badea ME, Hedesiu M, Serbanescu A, Badea AF. Experimental model for measuring and characterisation of the dento-alveolar system using high frequencies ultrasound techniques. Med Ultrason. 2010 Jun;12(2):127-32. Erratum in: Med Ultrason. 2011 Jun;13(2):178. Radu, Chifor [corrected to Chifor, Radu]; Eugenia, Badea Mîndra [corrected to Badea, Mindra Eugenia]; Mihaela, Hedeşiu [corrected to Hedesiu, Mihaela]; Andrea, Serbănescu [corrected to Serbanescu, Andrea]; Florin, Badea Alexandru [corrected to Badea, Al.

33. Hedeşiu M, Balog C, Preda DM, Băciuţ G, Băciuţ M, Fildan F, Pop A, Maier M. The accuracy of alveolar crest dimensions measurement for dental implants. In vitro study. Rev Med Chir Soc Med Nat Iasi. 2008 Jan-Mar;112(1):224-8.