

## Lista completă de lucrări științifice din toată activitatea didactică

Candidat: **Conf. Univ. Dr. Rusu Darian**

### 2004

*Stefan- Ioan Stratul, **Darian Rusu**, Alexandra Enache, Alexandru Ogodescu, Rodica Jianu, Mugur George Popescu.* Densitometric Evaluation of Periapical Bone Healing Using an oily Calcium Hydroxide Suspension. A Preliminary Controlled Study. International Poster Journal of Dental and Oral Medicine 2004, Vol 6 No 03, P. 236

### 2005

***Darian Rusu**, Stefan-Ioan Stratul, Alin Dinca, Anca Benta.* Non-surgical periodontal therapy using a novel gel: a split-mouth study. International Poster Journal of Dental and Oral Medicine 2005, Vol 7 No 03, P. 286

*Stefan-Ioan Stratul, **Darian Rusu**, Anton Sculean.* Evaluation of the Polylactide-Polyglycolide Copolymer in Treatment of Deep Intrabony defects. International Poster Journal of Dental and Oral Medicine 2005, Vol 7 No 03, P. 284

*Doina Onisei, Dan Onisei, Stefan-Ioan Stratul, **Darian Rusu**.* PCR detection of periodontal pathogens with Micro-Ident®Hain test. Medicine in Evolution 2005. No.3, p.32-37.

*Stefan-Ioan Stratul, **Darian Rusu**, Alin Dinca.* Initial Periodontal Therapy Using a new XanthanChlorhexidine Gel – Chlosite. International Poster Journal of Dental and Oral Medicine 2005, Vol 7 No 03, P. 283

*Stefan-Ioan Stratul, **Darian Rusu**, Anca Benta, Britta Willershausen, Anton Sculean.* Clinical Comparison between an oily Calcium Hydroxide Suspension (Osteoinductal®) and an Enamel Matrix Protein Derivative (Emdogain®) for the Treatment of Intrabony Periodontal Defects in Humans. International Poster Journal of Dental and Oral Medicine 2005, Vol. 7, No 04, P. 297.

### 2006

*Stefan-Ioan Stratul, **Darian Rusu**, Alin Dinca, Adrian Bacila, Anca Benta, A. Raduta, C.Demian, L. Soveja.* An in-vitro method to assess the sealing ability of root-canal obturation by computer-assisted microscopic analysis. Int Poster J Dent Oral Med 2006, Vol 8 No 04, P. 338.

*Stefan-Ioan Stratul, **Darian Rusu**, Brita Willershausen, Anton Sculean.* An update on the use of the oily calcium hydroxide suspensions in periodontal and oral wound healing. Timisoara Medical Journal 2006, Vol.56, Supplement No.1, p.16-19.

*Gianina Tapalaga, **Darian Rusu**, Aurel Bold, Stefan-Ioan Stratul.* Recent data on the incidence, prevalence, and etiology of the oral leukoplakia. Timisoara Medical Journal 2006, Vol.56, No.4, p.307-310.

*Stefan Ioan Stratul, Jianu Rodica, Enache Sanda, **Rusu Darian**.* External root resorption of traumatic origin associated with combined endodontic-periodontal lesion. A case report. Int Poster J Dent Oral Med 2006, Vol 8 No 01, P.304

### 2007

*Alin Dinca, Mirona Mesaros, **Darian Rusu**, Anca Benta, Dan Onisei, Stefan-Ioan Stratul.* Periodontal Non-surgical Therapy with the Chlorhexidine Xanthan-based Gel Chlosite®: a Randomized Split-mouth Study on 51 Cases. Int Poster J Dent Oral Med 2007, Vol 9 No 01, P.341

*Stefan-Ioan Stratul, **Darian Rusu**, Adrian Bacila, Anca Benta.* Clinical Comparison between a Polylactide-polyglycolide Copolymer (Fisiograft®) and an Enamel Matrix Protein derivative (Emdogain®) for the Treatment of Intrabony Periodontal Defects in Humans. Int Poster J Dent Oral Med 2007, Vol 9 No 01, P.347

*Stefan-Ioan Stratul, **Darian Rusu**, Anca Benta, Britta Willershausen, Anton Sculean.* 12-months Clinical Comparison between Osteoinductal® and Emdogain® for the treatment of Intrabony Defects. Int Poster J Dent Oral Med 2007, Vol 9 No 01, P.348

Mirona Mesaros, Bacila Adrian, **Rusu Darian**, Dinca Alin, Benta Anca, Stefan-loan Stratul. Early Evaluation at 6 Months of the Healing of Intrabony Defects Following Treatment with an Enamel Matrix Protein Derivative. A Controlled Clinical Study. Int Poster J Dent Oral Med 2007, Vol 9 No 01, P.350

## 2008

Stratul S, Didilescu A, Hanganu C, Greabu M, Totan A, Spinu T, Onisei Doina, **Rusu D**, Jentsch H, Sculean A. The molecular basis of biofilm formation. Oral biofilms and systemic infections. Timisoara Medical Journal, Vol.58, No.1-2, pag.118-125

Doina Onisei, Dan Onisei, Ioana Feier, **Darian Rusu**, Stefan-loan Stratul. The biofilm. Formation and removal. Timisoara Medical Journal, Vol.58, No.1-2, pag.111-118.

Andreea Didilescu, Radita Iliescu, **Darian Rusu**, Alexandru Andrei Iliescu, Alexandru Ogodescu, Emilia Ogodescu, Stefan Stratul. Current concepts on the relationship between pulpal and periodontal diseases. Timisoara Medical Journal, Vol.58, No.1-2, pag.198-104.

Ioana Feier, Dan Onisei, **Darian Rusu**, Stefan-loan Stratul, Doina Onisei. The role of interproximal cleaning instructions in the OHI score improvement. Timisoara Medical Journal, Vol.58, No.1-2, pag.78-82.

Cristian Comes, Anca Valceanu, **Darian Rusu**, Andreea Didilescu, Alexandru Bucur, Mirella Anghel, Veronica Argesanu, Stefan-loan Stratul. A study on the ergonomical working modalities using the dental operating microscope (DOM). Part I: Ergonomic principles in dental medicine, Timisoara Medical Journal, volume 58, Number 3 - 4, 2008

**Rusu D**, Didilescu A, Iliescu R, Iliescu A, Onisei D, Stratul SI. Current diagnostic methods for combined endodontic-periodontal lesions. Timisoara Medical Journal 2008; 58 (Supl.1): 25-30 (CNCSIS-B).

## 2009

Stefan-loan Stratul, Doina Onisei, **Darian Rusu**. Antimicrobial Agents In Periodontal Disease Therapy: Rationale And Use Of The Triclosan–Pvm/Ma Copolymer In The Management Of Gingivitis. Data From A Consensus Report – Part I. Timisoara Medical Journal 2009, Volume 59, Nr.1, p.105-108.

## 2010

Sinziana Scarlatescu, Andreea Cristiana Didilescu, Stefan Ioan Stratul, **Darian Rusu**, Mihaela Grigore, Maria Greabu, Andrei Iliescu. Root Canal Morphology of Mandibular Central Incisors in a South-Eastern Romanian Population: Endodontic and Periodontal Implications. Timisoara Medical Journal, October-December 2010, Volume 60, No.4, p.280-283.

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Stratul, S. I.; **Rusu, D.**; Kulcsar, R. M.; Argesanu, V.; Ogodescu, A. & Nica, L. M. (2010). Thermographical Methods in Highlighting the Tendinitis in Dentistry (2010). 1373-1375, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp 0687, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010

Stratul S-I, **Rusu D**, Didilescu A, Mesaros-Anghel M, Lala C, Tion L, Sculean A, Jentsch H. Prospective clinical study evaluating the long-time adjunctive use of chlorhexidine after one-stage full-mouth SRP. Int J Dent Hygiene 8, 2010; 35-40 DOI: 10.1111/j.1601-5037.2009.00390.x (indexată MEDLINE, l'Institut de l'Information Scientifique et Technique (INIST), Cinahl Information Systems).

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## 2011

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Stefan-Ioan Stratul, Andreea Didilescu, Mihaela Grigorie, Emilia Ianes, **Darian Rusu**, Luminita Nica. How accurate replicates the Therafil system the morphology of the apical endodontic space? An ex vivo study. Romanian Journal of Morphology and Embryology 2011, 52(1):145-151. [ISSN (print) 1220-0522, ISSN (on-line) 2066-8279, categoria A (CNCSIS), indexata Thomson Reuters (ISI Master Journal List, Science Citation Index Expanded), Scopus/Embase (Elsevier), Index Copernicus], <http://www.rjme.ro/RJME/resources/files/520111145151.pdf>

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Adrian-George Marinescu, Virgil Carligeriu, Luminita Nica, Doina Onisei, **Darian Rusu**, Marius Boariu, Alexandru Ogodescu, Emilia Ianes, Stefan-Ioan Stratul, Laurentiu Sima. Evaluation of the treatment techniques for advanced (grade II-IV) furcation defects. A literature review of the non-regenerative methods. Timisoara Medical Journal 2011, Vol. 61, No.3-4, p.262-268.

Didilescu A, **Rusu D**, Greabu M, Iliescu A, Hanganu SC, Bancescu G, Stratul S-I. Investigation of five periopathogens in patients with endo-periodontal lesions. Journal de Parodontologie et Implantologie Orale, Vol.30, No.2, p.107-116. (ISSN:1256-6128, indexat in baza de date RUNNERS <http://runners.ritsumei.ac.jp/cgi-bin/swets/volume-query-?mode=0&key=&issn=&tr=Journal+de+Parodontologie+et+d'Implantologie+Orale>)

Stefan-Ioan Stratul, **Darian Rusu**, Andreea Didilescu, Luminita Nica, Aurel Raduta, Cosmin Locovei, Mircea Nicoara. Contributions to Investigation of Oral Biofilms Using Low-Vacuum Scanning Electron Microscopy. HISTEM '11, 2nd International Conference on Medical Histology and Embryology, University of Cambridge, Cambridge, UK, February 23-25, 2011. Volumul de rezumate: Editors: Olivier Braissant, Hidetoshi Wakamatsu, Isaac Kuo-Kang, Karel Allegaert, Yongwimon Lenbury, Amy Wachholtz. Recent Researches in Modern Medicine, Cambridge, UK, February 23-25, 2011. ISSN 1792-832X 9online), ISSN 1792-8311, ISBN 978-960-474-278-3 (printed), p.379-384. <http://www.wseas.us/conferences/2011/cambridge/histem/index.html>

## 2012

Didilescu AC, **Rusu D**, Anghel A, Nica L, Iliescu A, Greabu M, Bancescu G, Stratul SI. Investigation of six selected bacterial species in endo-periodontal lesions. International Endodontic Journal, 45, 282-293, 2012

Luminita Nica, Andreea Didilescu, **Darian Rusu**, Adrian Bacila, Stefan-Ioan Stratul. Photomicrographic evaluation of the apical sealing ability of three types of gutta-percha master cones: an in vitro study. Odontology. 2012 Jan; 100 (1):54-60. Epub 2011 May 7 (ISSN 1618-1247, indexata ISI ).

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Marinescu A, Nica L, Didilescu A, Ogodescu A, Boariu M, **Rusu D**, Stratul SI. Comparative evaluation of periodontal regeneration in mandibular class II furcation defects using enamel matrix proteins and an oily calcium hydroxide suspension. A pilot study. Medicine in Evolution, Volume XVII, No.3, 2012, p.550-555.

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Adrian George Marinescu, Marius Boariu, **Darian Rusu**, Stratul Stefan-Ioan, Alexandru Ogodescu. Reliability of CBCT as an assessment tool for mandibular molars furcation defects. *Proc. SPIE 8925, Fifth International Conference on Lasers in Medicine: Biotechnologies Integrated in Daily Medicine*, 89250J (January 14, 2014); doi:10.1117/12.2045782, <http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1814678> sau <http://dx.doi.org/10.1117/12.2045782> , ISSN 0277-786X (print), 1996-756X (online).

Stefan-Ioan Stratul, Cosmin Sinescu, Meda Negrutiu, Aldo de Sabata, Mihai Rominu, Alexandru Ogodescu, **Darian Rusu**. On the reliability of the holographic method for measurement of soft tissue modifications during periodontal therapy. *Proc. SPIE 8925, Fifth International Conference on Lasers in Medicine: Biotechnologies Integrated in Daily Medicine*, 89250I (January 14, 2014); doi:10.1117/12.2045851, <http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1814677> sau <http://dx.doi.org/10.1117/12.2045851> , ISSN 0277-786X (print), 1996-756X (online).

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## 2015

**Darian Rusu**, Stefan-Ioan Stratul, Ciprian Sarbu, Alexandra Roman, Andrei Anghel, Andreea Didilescu, Holger Jentsch. Evaluation of a Hydrophobic Gel Adhering to the Gingiva in Comparison with a Standard Water-soluble 1% Chlorhexidine gel after Scaling and Root Planing in Patients with Moderate Chronic Periodontitis. A Randomized Clinical Trial. *Int J Dent Hyg*. 2015 Jun 5. doi: 10.1111/ihd.12155.

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## 2016

**Darian Rusu**, Bogdan Calenic, Daniela Miricescu, Radu Radulescu, Maria Greabu, Alexander Kravlev, Marius Boariu, Florina Bojin, Simona Anghel, Virgil Paunescu, Octavia Vela, Horia Calniceanu, Stefan-Ioan Stratul. Evaluation of oral keratinocyte progenitor cells respons during early healing after augmentation of keratinized gingiva with a 3D collagen matrix – a pilot study. *BMC Oral Health*. 2016 Jul 7;17(1):9. doi: 10.1186/s12903-016-0240-x.

Ionela Elisabeta Ciobanu, **Darian Rusu**, Stefan-Ioan Stratul, Andreea Cristiana Didilescu, Corina Marilena Cristache. The root canal stripping between malpractice and common procedural accident: an ethical dilemma in endodontics. *Case Reports in Dentistry*, Volume 2016, Article ID 4841090, 5 pages, <http://dx.doi.org/10.1155/2016/4841090>

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## 2017

**Rusu D**, Stratul SI, Festila D, Surlin P, Kasaj A, Baderca F, Boariu M, Jentsch H, Locovei C, Calenic B. Histology and surface ultrastructure during early healing after gingival augmentation with a three-dimensional collagen matrix: A report of six cases. *Quintessence Int*. 2017;48(1):57-67.

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Viorelia Radulescu, Marius Boariu, **Darian Rusu**, Horia Calniceanu, Stefan-Ioan Stratul. Tooth loss and survival rate in chronic moderate to severe periodontitis. A synthetic search of non-surgical therapy studies. *Medicine in Evolution*, Volume XXIII, No.3, 2017, 355-362

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## 2018

**Rusu D**, Surlin P, Stratul SI, Boariu M, Calniceanu H, Kasaj A, Sinescu C, Didilescu A. Changes in anatomic position of root canal orifices in pluriradicular teeth following relocation during endodontic treatment. *Ann Anat.* 2018 Feb 16;217:29-33. doi: 10.1016/j.aanat.2018.01.004. [Epub ahead of print]

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## 2019

**Rusu D**, Boariu M, Stratul S-I, Bojin F, Paunescu V, Calniceanu H, Surlin P, Roman A, Milicescu S, Caruntu C, Didilescu A, Gaje N-P, Calenic B. Interaction between a 3D collagen matrix used for soft tissue regeneration and T-lymphocytes: an in vitro study. *Experimental and Therapeutic Medicine (Exp Ther Med)* 2019 Feb;17(2):990-996. doi: 10.3892/etm.2018.6979. Epub 2018 Nov 16., ISI, FI = 1,41

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Alexandra Roman, Stefan-Ioan Stratul, **Darian Rusu**, Marius Boariu, Andrada Soanca, Robert Balazsi, Maria Suci, Marioara Moldovan, Adriana Elena Bulboaca. Investigations on the adhesion of new composites for restoring cervical lesions using energy dispersive X-ray analysis and scanning electron microscopy. *Sci Rep.* 2019 Jul 8;9(1):9853. doi: 10.1038/s41598-019-46340-3, [www.nature.com/scientificreports](http://www.nature.com/scientificreports)

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## 2020

Petra Surlin, Dorin Nicolae Gheorghe, Dora Maria Popescu, Alexandra Maria Martu, Sorina Solomon, Alexandra Roman, Luminita Lazar, Stefan Ioan Stratul, **Darian Rusu**, Liliana Foia, Mihail Virgil Boldeanu, Lidia Boldeanu, Monica Danilescu, Ion Rogoveanu. Interleukin-1 $\alpha$  and -1 $\beta$  assessment in the gingival crevicular fluid of periodontal patients with chronic hepatitis C. *Experimental And Therapeutic Medicine.* DOI: 10.3892/etm.2020.8906.

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**Darian Rusu**, Stefan-Ioan Stratul, Horia Calniceanu, Marius Boariu, Alexandru Ogodescu, Stefan Milicescu, Andreea Didilescu, Alexandra Roman, Petra Surlin, Cosmin Locovei, Monica Chiperi, Sorina Solomon, Luminita Nica. A qualitative and semiquantitative SEM study of the morphology of the biofilm on root surfaces of human teeth with endodontic-periodontal lesions. *Experimental and Therapeutic Medicine* 20: 201, 2020, DOI: 10.3892/etm.2020.9331

Horia Calniceanu, Marius Boariu, Luminita Nica, Stefan Milicescu, Stefan-Ioan Stratul, **Darian Rusu**, Alexandra Roman, Petra Surlin, Alexandru Jianu, Alexandru Ogodescu, Andreea Didilescu, Laurentiu Sima, Sorin Bolintineanu, Mirona Tudor, Andrei Anghel, Anne Marie Rauten. Changes in clinical and microbiological parameters of the periodontium during initial stages of orthodontic movement in patients with treated severe periodontitis: a longitudinal site-level analysis. *Experimental and Therapeutic Medicine* 20: 199, 2020 DOI: 10.3892/etm.2020.9329.

## 2021

Di Lauro AE, Boariu M, Sammartino P, Scotto F, Gasparro R, Stratul SI, **Rusu D**, Roman A, Surlin P, Solomon S. Lower third molar inclusion associated with paraesthesia: A case report. *Exp Ther Med*. 2021 Aug;22(2):826. doi: 10.3892/etm.2021.10258. Epub 2021 Jun 3.

Florin Topala, Luminita-Maria Nica, Marius Boariu, Renato Chincia, Meda Lavinia Negrutiu, Cosmin Sinescu, Adrian Marinescu, Laura Elena Cirligeriu, Stefan-Ioan Stratul, **Darian Rusu**, Virgil Florin Duma, Adrian Podoleanu. En-face Optical Coherence Tomography analysis of gold and silver nanoparticles in endodontic irrigating solutions – an in vitro study. *Experimental and Therapeutic Medicine* 22: 992, 2021, DOI: 10.3892/etm.2021.10424

## 2022

Cristina Andrada Costea, Ruxandra Christodorescu, Andrada Soancă, Alexandra Roman, Iulia Cristina Micu, Ștefan Ioan Stratul, **Darian Rusu**, Dora Maria Popescu, Aurel Popa Wagner, Adriana Elena Bulboacă. Periodontitis in Ischemic Stroke Patients: Case Definition Challenges of the New Classification Scheme (2018) *J. Clin. Med.* 2022, 11, 520. <https://doi.org/10.3390/jcm11030520>

Radulescu V, Boariu MI, **Rusu D**, Roman A, Surlin P, Voicu A, Didilescu AC, Jentsch H, Siciliano VI, Ramaglia L, Vela O, Kardaras G, Sculean A, Stratul SI. Clinical and microbiological effects of a single application of sodium hypochlorite gel during subgingival re-instrumentation: a triple-blind randomized placebo-controlled clinical trial. *Clin Oral Investig*. 2022 Nov;26(11):6639-6652. doi: 10.1007/s00784-022-04618-3. Epub 2022 Jul 12. PMID: 35829773.

Boldeanu LC, Boariu M, **Rusu D**, Vaduva A, Roman A, Surlin P, Martu I, Dragoi R, Popa-Wagner A, Stratul SI. Histomorphometrical and CBCT Evaluation of Tissue Loss Progression Induced by Consecutive, Alternate Ligatures in Experimental Peri-Implantitis in a Dog Model: A Pilot Study. *J Clin Med*. 2022 Oct 20;11(20):6188. doi: 10.3390/jcm11206188. PMID: 36294510; PMCID: PMC9605274.

Viorelia Rădulescu, Marius Boariu\*, **Darian Rusu**, Camelia Boldeanu, Ruxandra Christodorescu, Alexandra Roman, Petra Surlin, Andreea Cristiana Didilescu, Octavia Vela, Giorgios Kardaras, Ioana Veja, Ioana Martu, Stefan-Ioan Stratul. Is the diagnosis of generalized stage IV (severe) periodontitis compatible with the survival of extended stabilizing prosthetic restorations? A medium-term retrospective study. *Diagnostics* 2022, 12, 3053. <https://doi.org/10.3390/diagnostics12123053> , <https://www.mdpi.com/2075-4418/12/12/3053/pdf>

Andreea Igna, **Darian Rusu**, Emilia Ogodescu, Stefania Dinu, Marius Boariu, Adrian Voicu, Stefan-Ioan Stratul. Age-related variation of pulpal oxygen saturation in healthy primary and immature permanent teeth. A clinical study. *J. Clin. Med.* 2023, 12, 170. <https://doi.org/10.3390/jcm12010170>, <https://www.mdpi.com/2077-0383/12/1/170>

## 2023

Ilyes, I.; **Rusu, D.**; Radulescu, V.; Vela, O.; Boariu, M.I.; Roman, A.; Surlin, P.; Kardaras, G.; Boia, S.; Chinnici, S.; Jentsch, H.; Stratul, SI. A Placebo-Controlled Trial to Evaluate Two Locally Delivered Antibiotic Gels (Piperacillin Plus Tazobactam vs. Doxycycline) in Stage III–IV Periodontitis Patients. *Medicina* 2023, 59, 303. <https://doi.org/10.3390/medicina59020303>

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