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Surname, Given name(s): Seseogullari Dirihan, Roda

Citizenship: Turkish /Finnish

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ORCID: 0000-0002-1484-6774

Education and Title

- 05.2024 **Docent (Associate Professor, Restorative Dentistry, Finland)**
- 10.2017 **Docent (Associate Professor, Prosthodontics, Turkey)**
- 11.2011-11.2016 **PhD in Restorative Dentistry**
Institute of Dentistry, University of Turku, Turku, Finland
PhD Thesis: Effect of Collagen Crosslinkers on Dentin Protease Activity
Supervisor: Prof. Arzu Tezvergil-Mutluay (University of Turku)
Opponent: Prof. Steven R Armstrong (University of Iowa, IA, USA)
- 10.2006-10.2010 **Specialist, Specialization in Prosthodontics**
Department of Prosthetic Dentistry, Faculty of Dentistry,
Dicle University, Diyarbakır, Turkey
- 10.2006-10.2010 **PhD in Prosthodontics**
Faculty of Dentistry, Dicle University, Diyarbakır, Turkey
Thesis: Comparison of Load-bearing Capacities of Three-Unit Fiber Reinforced Composite
Bridges with Different Framework Designs
- 9.1998-10.2003 **DDS, Dicle University, Faculty of Dentistry, Diyarbakır, Turkey.**

Language Skills

Turkish	Native language
English	Proficient
Finnish	Intermediate

Current Position

- 01.2024-... **Associate Professor,**
Department of General Dental Science, School of Dentistry, Marquette University,
Milwaukee, WI, U.S.A.
- 01.2021-... **Visiting Associate Professor (Adjunct Faculty)**
Faculty of Dentistry, Bahcesehir University, Istanbul, Turkey
- 01.2022-... **Panel Member, JUFO - Finnish Publication Forum, Helsinki, Finland**

Previous Positions

- 01.2016-12.2023 **Assistant Professor,**
Department of Restorative Dentistry, Institute of Dentistry, University of Turku,
Turku/Finland
- 01.2020-08.2021 **Postdoctoral Researcher (Sigrid Juselius Fellowship)** Department of Biologic & Materials
Sciences & Prosthodontics, School of Dentistry, University of Michigan, Ann Arbor, MI, USA
- 01.2012-12.2015 **FINDOS Position,** Finnish Doctoral Program in Oral Science (FINDOS), Institute of
Dentistry, University of Turku, Turku, Finland
- 04.2011-12.2011 **Specialist,** Prosthetic Dentistry and Biomaterials Science, Institute of Dentistry, University of
Turku, Turku, Finland
- 12.2005-.03.2011 **Researcher,** Department of Prosthetic Dentistry, Dentistry Faculty, Dicle University,
Diyarbakir, Turkey
- 12.2003-12.2005 **Dentist,** Ergani Health Care Center, Diyarbakir, Turkey

Mentorship/Co-supervisor in University of Turku, Research Group

- Ikram Salim (PhD candidate) ⇒ *The ion-releasing materials for remineralization*
- Caglar Bursa (PhD candidate) ⇒ *Crosslinking of dentin matrix prior to post-core cementation*
- Lauri Salminen (undergrad student) ⇒ *The effect of radiotherapy on oral hard tissue degradation*
- Patrik Rauhanen (undergrad std) ⇒ *The effect of radiotherapy on biomechanics of hard tissue*
- Diletta Forgione (PhD candidate) ⇒ *Phytic acid on dentin/pulp complex*
- Bruno Lara Zarella (PhD candidate) ⇒ *Evaluation of the absence of Proteoglycan and GAG*
- Meltem Tekbas Akay (PhD) ⇒ *Biomodification of dentin by curcumin*
- Suat Ozcan (PhD) ⇒ *Effect of etching on dentin degradation*
- Sumeyye Kilic (specialist prog) ⇒ *Bioactive cements on remineralization*
- Ozlem Kara (PhD) ⇒ *Use of photodynamic therapy*
- Serra Oguz Ahmet (PhD) ⇒ *Inhibitory effect of QUATs on dentin protease activity*
- Sinem Akipek (PhD) ⇒ *The effect of polyphenolic compounds on enzymes*
- Selin Deniz Saltik (specialist prog) ⇒ *Natural polyphenols as alternative crosslinkers*
- Anssi Tolski (undergrad student) ⇒ *Use of pomegranate extract for inactivate degradation of dentin*
- Markus Nokkala (undergrad std) ⇒ *Alcohol treatment on dentin enzymatic activity*

Pedagogical competence (Higher Education Pedagogy Program, Finland)

- 01.09 - 30.09.2016 Becoming a teacher, University of Turku, Faculty of Education
- 04.04 - 11.05.2017 How to plan my teaching, University of Turku, Faculty of Education
- 04.04 - 11.05.2017 Lecturing and Expertise, University of Turku, Faculty of Education
- 03.05 - 01.06.2017 UTUPs Integrative Module, University of Turku, Faculty of Education
- 26.01 - 05.04.2019 Basics of University, Pedagogy 2, University of Turku, Faculty of Education

Teaching Experience

08.2022-...	Master Teacher , Dental Morphology/Preclinical undergraduate student education Department of Restorative Dentistry/ Institute of Dentistry, UTU, Turku, Finland
01.2017-...	University Teacher , Endodontics/Preclinical undergraduate student education Department of Restorative Dentistry/Institute of Dentistry, UTU, Turku, Finland
02.2016-...	University Teacher , Cariology/Preclinical undergraduate student education Department of Restorative Dentistry/Institute of Dentistry, UTU, Turku, Finland
08.2014-08.2022	University Teacher , Dental Morphology/Preclinical undergraduate student education Department of Restorative Dentistry/ Institute of Dentistry, UTU, Turku, Finland
12.2005-03.2011	Clinical Instructor , undergraduate student education Dept of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Turkey
12.2005-03.2011	Pre-Clinical Instructor , Dental Morphology, undergraduate student education Dept of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Turkey
12.2005-03.2011	Pre-Clinical Instructor , Complete Dentures, undergraduate student education Dept of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Turkey
12.2005-03.2011	Pre-Clinical Instructor , Partial Dentures, undergraduate student education Dept of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Turkey
12.2005-03.2011	Pre-Clinical Instructor , Fixed Prosthesis, undergraduate student education Dept of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Turkey

International Research Visits

12.2019- 8.2022	Postdoctoral Researcher , Ma Lab, School of Dentistry, University of Michigan, MI, USA
07.2015-08.2015	Visiting Researcher , Prof. Cadenaro's Lab, Faculty of Medicine, University of Trieste, Italy
11.2012-1.2013	Visiting Researcher , Prof. Breschi's Lab, Faculty of Medicine, University of Bologna, Italy
11.2008-4.2009	Visiting Researcher , Fiber-Reinforced Research Group, University of Turku, Finland

International Collaborator

Adhesive Dentistry Research Group, University of Turku, Turku, Finland
Ma Lab, School of Dentistry, University of Michigan, MI, USA
Kuroda Lab, School of Dentistry, University of Michigan, MI, USA
Milena Cadenaro, Faculty of Medicine, University of Trieste, Italy
Lorenzo Breschi, Faculty of Medicine, University of Bologna, Italy
Leo Tjäderhane, Institute of Dentistry, University of Helsinki, Helsinki, Finland

International Awards

2018	IADR UAE HATTON AWARD International Association Dental Research
2014	*ADM PAFFENBARGER AWARD Academy of Dental Materials
2013	*IADR NOF HATTON AWARD International Association Dental Research

International Grants Received

2019	Sigrid Juselius Fellowship	129000 euro
2018	ESE Annual Research Grant European Society of Endodontology	20000 euro
2018	Postdoctoral Research Grant , Finnish Dental Society (Apollonia)	6000 euro
2016	Young Researcher Grant , Finnish Dental Society (Apollonia)	4000 euro
2016	Research Award , Kosti Hamara Funding	4900 euro
2016	PhD Completing Grant , University of Turku	4900 euro
2015	Research Award , Tellervo ja Kyllikki Hakala Funding	2000 euro
2015	Erasmus Staff Mobility , University of Turku	
2014	Research Excellence Award , Marta ja Uno Pikarla Funding	2000 euro
2014	Research Grant , Hilka Brusii Funding, University of Turku	1500 euro
2012	Research Visit Grant , FINDOS (University of Bologna)	

Invited Speaker for International Congress

1st International Dental Research and Health Science Congress, May 20-22, 2021

International Turkish Japanese Dentistry Congress and Dental Workshop June 24-26, 2021

Seminars

16.06.2021 Gazi University, Department of Restorative Dentistry, Ankara, Turkey

02.09.2015 FINDOS Seminars, University of Turku, Finland

27.02.2013 PeGaSOS Seminars, University of Turku, Finland

Scientific Board Member for International Scientific Congress

1st International Dental Research and Health Science Congress, May 20-22nd, 2021

International Meandros Dental Congress, Kuşadası/AYDIN, November 20-23th, 2019.

International Meandros Dental Congress, Kuşadası/AYDIN, November 23-25th, 2018.

Editor for International Scientific Journal

2024 *Materials* (Special Issue Editor)

2024 *Frontiers in Dentistry* (Editor for Special Issue Article Collection)

Reviewer for International Scientific Journal

2021-... Journal of the Mechanical Behavior of Biomedical Materials

2019- ... Scientific Reports/Nature

2019- ... Journal of International Medical Research

2018- ... Journal of Adhesive Dentistry

2017- ... Archives of Oral Biology

2017- ... Caries Research

2015- ... Journal of Dental Research

2012- ... Dental Materials

Memberships

2021-...	Tissue Cure Alliance Finland
2017- ...	International Association of Dental Research Member of Continental European Division
2014- ...	Finnish Dental Society (Apollonia)
2012- ...	International Association of Dental Research Member of Scandinavian Division
2012- ...	Academy of Dental Materials

In Media “New dental materials developed, with bioactive glass doped with fluoride, to stop degradation of demineralized dentin and evoke remineralization” *Daily Science*, June 3, 2017, <https://www.sciencedaily.com/releases/2017/07/170703121132>

List of Publications

1. R. Bhat, V. Godovikova, S. Flannagan, Y. Li, **R. Seseogullari-Dirihan**, C. González-Cabezas, K. Kuroda ‘Targeting cariogenic oral biofilms by charge-switching smart antimicrobial polymers.’ *ACS Biomaterials Science & Engineering*, October 2022
2. D. Forgione, M. Nassar, **R. Seseogullari-Dirihan**, A. Tezvergil “Effect of phytic acid on dentinal collagen solubilization and its binding and debinding potentials to dentin” *Journal of Dentistry*, In Press, October 2022.
3. I. Salim, T.H.S. Stape, **R. Seseogullari-Dirihan**, M Mutluay, A. Tezvergil-Mutluay, S. Imizato. ‘The inhibitory effects of various ions released from S-PRG fillers on dentin protease activity.’ *Dental Mater J*, Online Preview, October 2022
4. T.H.S. Stape, T. Viita-Aho, A. Sezinando, **R. Seseogullari-Dirihan**, E. Eleftheriadi, M. Mutluay, A. Tezvergil-Mutluay ‘To etch or not to etch, Part II: On the hydrophobic-rich content and fatigue strength of universal adhesives.’ *Dent Mater*. 2022 Aug;38(8):1419-1431.
5. Tekbas Atay M, **Seseogullari-Dirihan R**, Mutluay MM, Tezvergil-Mutluay A. ‘Long-term effect of curcuminoid treatment on resin-to-dentin bond strength.’ *Eur J Oral Sci*. 2022 Feb;130(1):e12837.
6. A. Usumez, T. Sari, **R. Seseogullari-Dirihan**, M. E. Guven, S. Oguz Ahmet, N. Gutknecht, A. Tezvergil Mutluay ‘Effect of Acid or Laser Treatment on Degradation of Dentin Matrix’ *Lasers in Dental Science* (2022) 6:99–105.
7. O. Kara, **R. Seseogullari-Dirihan**, Borchers Ralf, A. Tezvergil, A. Usumez. ‘Inhibition of dentin protease activity by photodynamic therapy’. *Dental Materials, Dent Mater*. 2021 Oct;37(10):e485-e492
8. D. Forgione, M. Nassar, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. ‘The effect of phytic acid on enzymatic degradation of dentin.’ *European Journal of Oral Science*, 2021;e12771.
9. A. Alani, *I. Salim, **R. Seseogullari-Dirihan**, M Mutluay, A. Tezvergil-Mutluay. ‘Incorporation of dimethyl sulfoxide into experimental hydrophilic and hydrophobic adhesive resins: evaluation of cytotoxic activities.’ *European Journal of Oral Science*, 2021;129(1):e12756
10. S. Oguz Ahmet, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. ‘Activation of matrix-bound endogenous proteases by self-etch adhesives.’ *Dental Materials Journal*, 2020;3;39(6):1044-1049.
11. T. Stape, **R. Seseogullari-Dirihan**, L. Tjäderhane , G. Abuna , L.R. Marcondes Martins , A. Tezvergil-Mutluay. ‘A novel dry-bonding approach to reduce collagen degradation and optimize resin-dentin interfaces.’ *Nature Scientific Reports*, 2018;8:16890.
12. B. Yilmaz, Z. Seyfioglu Polat, A.D. Izgi, D. Toprak, **R. Seseogullari-Dirihan** ‘The contribution of ceramic thickness and adhesive type on the de-bonding strength of dental ceramic veneers using Er,Cr:YSGG laser.’ *Journal of Oral Research*, 2019;8(2): 131-139.
13. I.H. Tacir, **R. Seseogullari-Dirihan**, Z. Seyfioglu Polat, E. Ayna, G. On, L.V.J. Lassila, P. Vallittu. ‘Comparison of Load-bearing Capacities of Three-Unit Fiber Reinforced Composite Adhesive Bridges with Different Framework Designs’ *Medical Science Monitor*, June 2018;24:4440-4448.
14. L. Breschi, A. Bavelloni, D.H. Pashley, A. Mazzoni, **R. Seseogullari-Dirihan**, P. Gobbi, P. Scaffa, L. Tjäderhane, T. Maravic, A. Tezvergil-Mutluay, F. Tay. ‘Biochemical and immunohistochemical identification of MMP-7 in human dentin.’ December 2018;79:90-95 .
15. C. Parise Gré, D. Pedrollo Lise, A.P. Ayres, J. De Munck, A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, G.C. Lopes, K. Van Landuyt, Bart Van Meerbeek ‘Do collagen cross-linkers improve dentin’s bonding receptiveness’ *Dental Materials*, August 2018;34(11):1679-1689.
16. **R. Seseogullari-Dirihan**, M. Tekbas Atay, D.H. Pashley, A. Tezvergil-Mutluay. ‘Inhibitory effect of curcuminoid pretreatments on endogenous dentin proteases.’ *Dental Materials Journal*, 2018;7(3):445-452.

17. P. Altinci, **R. Seseogullari-Dirihan**, G. Can, D. Pashley, A. Tezvergil-Mutluay. '*Zinc Inhibits Collagenolysis by Cathepsin K and Matrix Metalloproteinases in Demineralized Dentin Matrix.*' Caries Research 2017 Oct 13;51(6):576-581.
18. A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, V.P. Feitosa, G. Cama, D.S. Brauer, S. Sauro '*Effects of Composites Containing Bioactive Glasses on Demineralized Dentin.*' Journal of Dental Research. 2017;96(9):999-1005.
19. **R. Seseogullari-Dirihan**, M.M. Mutluay, L. Tjäderhane, L. Breschi, D.H. Pashley, A. Tezvergil-Mutluay. '*Effect of pH on dentin protease inactivation by carbodiimide.*' European Journal of Oral Sciences, 2017;125(4):288-293.
20. **R. Seseogullari-Dirihan**, M.M. Mutluay, D.H. Pashley, A. Tezvergil-Mutluay. '*Is the inactivation of dentin proteases by crosslinkers reversible?*' Dental Materials. 2017;33(2):e62-e68.
21. **R. Seseogullari-Dirihan**, F. Apollonio, A. Mazzoni, L. Tjäderhane, D.H. Pashley, L. Breschi, A. Tezvergil-Mutluay. '*Use of crosslinkers to inactivate dentin MMPs*'. Dental Materials 2016;32(3):423-432.
22. **R. Seseogullari-Dirihan**, L. Tjäderhane, D.H. Pashley, A. Tezvergil-Mutluay. '*Effect of ultraviolet A-induced crosslinking on dentin collagen matrix*'. Dental Materials 2015;31(10):1225-1231.
23. P. Altinci, M.M. Mutluay, **R. Seseogullari-Dirihan**, L. Tjäderhane, D. Pashley, A. Tezvergil-Mutluay '*NaF inhibits matrix-bound cathepsin-mediated dentin matrix degradation*' Caries Research, 2016;50(2):124-132.
24. **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay, M.M. Mutluay, P. Vallittu, D.H. Pashley. '*Effect of pretreatment with collagen crosslinkers on dentin protease activity*'. Dental Materials 2015;31(8):941-947.
25. S. Ozcan, **R. Seseogullari-Dirihan**, M. Uctasli, F.R. Tay, D.H. Pashley, A. Tezvergil-Mutluay. '*Effect of polyacrylic acid on dentin protease activities.*' Dental Materials 2015;31(8):901-906.
26. A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, V.P. Feitosa, F.R. Tay, T.F. Watson, D.H. Pashley, S. Sauro. '*Zoledronate and ion-releasing resins impair dentin collagen degradation*'. Journal of Dental Research 2014;93(10):999-1004.
27. S. Oguz Ahmet, M.M. Mutluay, Z. Seyfioglu Polat, **R. Seseogullari-Dirihan**, B. Bek, A. Tezvergil-Mutluay. '*Addition of benzalkonium chloride to self-adhesive resin-cements: some clinically relevant properties*'. Acta odontologica Scandinavica 2014;72(8):1-8.
28. A. Tezvergil-Mutluay, M. Mutluay, **R. Seseogullari-Dirihan**, K.A. Agee, W.O. Key, D.L.S. Scheffel, L. Breschi, A. Mazzoni, L. Tjäderhane, Y. Nishitani, F.R. Tay, and D.H. Pashley. '*Effect of phosphoric acid on the degradation of human dentin matrix*'. Journal of Dental Research 2013;92: 87-91.
29. A. Tezvergil-Mutluay, M.M. Mutluay, K. Agee, **R. Seseogullari-Dirihan**, T. Hoshika, M. Cadenaro, L. Breschi, P. Vallittu, F. Tay, D.H. Pashley. '*Carbodiimide cross-linking inactivates soluble and matrix-bound MMPs in vitro*'. Journal of Dental Research 2012;91:192-196.
30. S. Guven, **R. Şeşeoğulları Dirihan**, E. Göncü Basaran '*Laminate veneer application of anterior teeth affected by enamel hypoplasia: Two case reports*' Yeditepe Üniversitesi Diş Hekimliği Fakültesi Der 2011;1(3):7-10.
31. Z. Seyfioglu Polat, **R. Şeşeoğulları Dirihan**, İ.H. Tacir '*The different prothetic rehabilitation crown fractures on children*'. Dental Journal of Selcuk University, 2006;15: 123-127.

Oral Presentations

1. **R. Seseogullari-Dirihan**, D.H. Pashley, A. Tezvergil-Mutluay. '*Odanacatib inhibits cathepsin-K Activity in dentin*' dentin'49th CED-IADR Meeting, 21-23 September 2017, Vienna, Austria.
2. A. Beklen, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay '*In vitro effect of smokeless tobacco on gingival epithelial cells.*' 2nd ENSP Conference on Tobacco Control, The official journal of ENSP, 24- 26 May, 2017, Athens, Greece.
3. B. Lara Zarella, **R. Seseogullari-Dirihan**, *L. Tjäderhane, A. Tezvergil-Mutluay '*Effect of salivary MMPs and cathepsins on dentin collagen degradation.*' 2017 IADR/AADR/CADR General Session, 22-25 March 2017, San Francisco, CA, USA.
4. *S. Oguz Ahmet, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. '*Activation of endogenous proteases of dentin by self-etching adhesives.*' 38th Annual Congress of European Prosthodontic Association 25-27 September 2014, Istanbul, Turkey.
5. *A. Usumez, A. Tezvergil-Mutluay, T. Sari, **R. Seseogullari-Dirihan**, B.S. Oguz Ahmet, and N. Gutknecht '*Effect of acid or laser on degradation of dentin matrix*'. CED/IADR, September 2013, Florence, Italy.
6. S. Ozcan, **R. Seseogullari-Dirihan**, M. Uctasli, D. Pashley, *A. Tezvergil-Mutluay '*Effect of polyacrylic acid on protease activity of EDTA-demineralized dentin*' 2015 IADR/AADR/CADR General Session, Boston, USA
7. ***R. Seseogullari-Dirihan**, D. Pashley, and A. Tezvergil-Mutluay '*Effect of Pre-treatment with Collagen crosslinkers on dentin protease activity*'. IADR, March 2013, Seattle, USA.

8. **R. Seseogullari Dirihan***, İ.H. Tacir, S Üçtaşlı, P. Vallittu, L.V.J. Lassila 'Comparison of load-bearing capacity of different polymerization methods and framework designs on fiber-reinforced composite FPDs'. 34th Annual Congress of European Prosthodontic Association 23-25 September 2010 Prishtina, Kosovo.
9. **R. Şeşoğulları Dirihan***, Z. Seyfioğlu Polat, İ.H. Tacir 'The different prosthetic rehabilitation crown fractures in children: Four Cases' Turkish Dental Association 13th International Dental Congress 19-24 June 2006 Samsun, Turkey.
10. **R. Şeşoğulları Dirihan***, S. Guven, E. Göncü Basaran 'Polyethylene fiber reinforced resin-bonded bridge'. 32nd Annual Congress of European Prosthodontic Association 4-6 September 2008 Pecs, Hungary.

Poster Presentations

1. ***R. Seseogullari-Dirihan**, Kenichi Kuroda, Peter X Ma, A. Tezvergil-Mutluay. 'Effect of Chondroitin Sulfate on Odontogenic Differentiation of Dental Pulp Stem Cells.' ADM, 4-7 October 2023, San Diego, USA.
2. M. Capitanio, I.A. Salim, **R. Seseogullari-Dirihan**, M.M. Mutluay, A. Tezvergil-Mutluay, 'Different endodontic materials on long-term collagen degradation.' ADM, 4-7 October 2023, San Diego, USA.
3. M Uctasli* Effect of Silver Fluoride Treatment on Degradation of Dentin Collagen Matrix.I. Salim*, **R. Seseogullari-Dirihan**, T. Stape, M. Mutluay, A. Tezvergil-Mutluay, 'Effect of Solvents on the Cytotoxicity of Surface Pre-Reacted Glass.' CED/NOF IADR, 21-23 September 2023, Rhodes, Greece.
4. M. Capitanio, I.A. Salim, **R. Seseogullari-Dirihan**, M.M. Mutluay, A. Tezvergil-Mutluay. 'Effects of bioactive materials on dentin protease activity.' CED/NOF IADR, 21-23 September 2023, Rhodes, Greece.
5. ***R. Seseogullari-Dirihan**, Kenichi Kuroda, Peter X Ma, A. Tezvergil-Mutluay. 'Xylitol Enhances Odontogenic Differentiation on Dental Pulp Stem Cells.' Academy of Dental Materials 28 September-1 October 2022
6. *I Salim A. Alani, **R. Seseogullari-Dirihan**, M Mutluay, A. Tezvergil-Mutluay. 'Effect of Solvents on the Cytotoxicity of Resin-Modified Calcium Silicates.' Academy of Dental Materials 28 September-1 October 2022
7. *A Salim I. Salim, **R. Seseogullari-Dirihan**, M Mutluay, A. Tezvergil-Mutluay. 'Effect of solvents on the cytotoxicity of mineral trioxide aggregates.' Academy of Dental Materials 28 September-1 October 2022
8. *T.H.S. Stape, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay, M Mutluay. 'The effect of assisting technologies on light curing performance.' 18-21 March 2020 IADR/AADR/CADR General Session, Washington, USA.
9. A. Alani, *I. Salim, R. Seseogullari-Dirihan, M Mutluay, A. Tezvergil-Mutluay. 'Evaluation of Cell Responses towards DMSO-solvated adhesives after polymerization.' 18-21 March 2020 IADR/AADR/CADR General Session, Washington, USA.
10. ***R. Seseogullari-Dirihan**, B. Lara Zarella, A. Tezvergil-Mutluay 'Effect of Crosslinker on Ultimate Tensile Strength of Demineralized Dentin.' 19-21 September 2019 CED-IADR, Madrid, Spain
11. *A. Alani, I. Salim, R. Seseogullari-Dirihan, M Mutluay, A. Tezvergil-Mutluay. 'Cytotoxicity of experimental hydrophilic and hydrophobic DMSO-solvated adhesives after polymerization.' 19-21 September 2019 CED-IADR, Madrid, Spain.
12. M Nokkala, **R. Seseogullari-Dirihan**, D.H. Pashley, *A. Tezvergil-Mutluay. 'Water-induced degradation in demineralized dentin matrix.' 19-22 June 2019, IADR General Session, Vancouver, Canada.
13. *M. Nassar, D. Forgione, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. 'The effect of phytic acid on enzymatic degradation of dentin.' 19-22 June 2019, IADR General Session, Vancouver, Canada.
14. I. Salim, R. Seseogullari-Dirihan, S. Imazato, A. Tezvergil-Mutluay* 'Inhibitory Effects of Various Ions Released from Surface Active Fillers. Academy of Dental Materials 2-5 October 2019, Jackson Hole, WY, USA.
15. *A Tezvergil-Mutluay, **R Seseogullari-Dirihan**, E Yatkin, MM Mutluay 'Novel lignan and stilbenoid mixtures inhibit cathepsin-K activity in dentin.' Academy of Dental Materials 4-6 October 2018, Porte de Galinhas, Brazil.
16. *T.H.S. Stape, **R. Seseogullari-Dirihan**, L. Tjäderhane, G. Abuna, L.R.M. Martins, A. Tezvergil-Mutluay 'Dry-bonding with dimethylsulfoxide pretreatments to reduce collagen degradation.' Academy of Dental Materials 4-6 October 2018, Porte de Galinhas, Brazil.
17. **R Seseogullari-Dirihan**, E Yatkin, MM Mutluay *A Tezvergil-Mutluay, 'Novel lignan and stilbenoid mixtures inhibit matrix metalloproteinase activity in dentin.' IADR/PER General Session, 25-28 July 2018, London England.
18. *S.B. Oguz Ahmet, **R. Seseogullari-Dirihan**, M. Mutluay, A. Tezvergil-Mutluay. 'Effect of simulated gastric acids on Mechanical Properties of CAD/CAM resin.' IADR/PER General Session, 25-28 July 2018, London England.
19. O. Kara, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay, A. Usumez. 'Inhibition of Matrix Metalloproteinase by Photodynamic Therapy.' IADR/PER General Session, 25-28 July 2018, London England.
20. ***R. Seseogullari-Dirihan**, D.H. Pashley, A. Tezvergil-Mutluay, 'Rhus coriaria L. Binding capacity to mineralized versus demineralized dentin' 49th CED-IADR Meeting, 21-23 September 2017, Vienna, Austria.
21. K.N. Jamal, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. 'Long-term effect of collagen crosslinkers on mechanical properties of dentin.' 49th CED-IADR Meeting, 21-23 September 2017, Vienna, Austria.

22. ***R. Seseogullari-Dirihan**, D. Pashley, A. Tezvergil-Mutluay. '*Grape seed extract binding to mineralized vs. demineralized dentin.*' 2017 IADR/AADR/CADR General Session, 22-25 March 2017, San Francisco, CA, USA.
23. L. Salminen, P. Rauhanen, J. Keyrilainen, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay '*Effects of radiotherapy on endogenous MMP activity of dentin.*' 2017 IADR/AADR/CADR General Session, 22-25 March 2017, San Francisco, CA, USA.
24. M. Nokkala, **R. Seseogullari-Dirihan**, D. Pashley, A. Tezvergil-Mutluay '*The effect of dentin water content on host-derived enzymatic degradation.*' 2017 IADR/AADR/CADR General Session, 22-25 March 2017, San Francisco, CA, USA.
25. A.R. Tölski, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay '*Effect of pomegranate extract on dentin protease activity.*' 2017 IADR/AADR/CADR General Session, 22-25 March 2017, San Francisco, CA, USA.
26. ***R. Seseogullari-Dirihan**, C.O. Navarra, L. Fontanive, M. Cadenaro, A. Tezvergil-Mutluay . '*In vitro analysis of rhus coriaria L. extract interaction with demineralized dentin matrix.*' Academy of Dental Materials, 12-15 October 2016, Chicago, IL, USA.
27. *A. Alani, M. Mutluay, **R. Seseogullari-Dirihan**, L. Tjäderhane, A. Tezvergil-Mutluay. '*Effect of dimethyl sulfoxide pretreatment on dentin permeability.*' 47th CED-IADR Meeting, 15-17 October 2015, Belek-Antalya, Turkey.
28. *A. Usumez, O. Kara, T. Sari, **R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay. '*The effect of laser treatment on total MMP activity.*' 47th CED-IADR Meeting, 15-17 October 2015, Belek-Antalya, Turkey.
29. S. Ozcan, **R. Seseogullari-Dirihan**, M. Uctasli *A. Tezvergil-Mutluay. '*Effect of storage temperature and pH on dentin protease activity.*' 47th CED-IADR Meeting, 15-17 October 2015, Belek-Antalya, Turkey.
30. ***R. Seseogullari-Dirihan**, A. Tezvergil-Mutluay '*Total MMP Activity of dentin matrices pretreated with natural crosslinkers*'. Academy of Dental Materials 7-10 October 2015, Maui, Hawaii, USA.
31. ***R. Seseogullari-Dirihan**, M.M. Mutluay, A. Tezvergil-Mutluay. '*Does self-adhesive cementation increase dentin protease activity?*' Academy of Dental Materials 7-10 October 2015, Maui, Hawaii, USA.
32. ***R. Seseogullari-Dirihan**, M.M. Mutluay, L. Tjäderhane, D. Pashley, A. Tezvergil-Mutluay '*Longterm inhibition of dentin proteases by collagen crosslinkers*'. IADR/AADR/CADR General Session, March 2015, Boston, USA.
33. *P. Altinci, M.M. Mutluay, **R. Seseogullari-Dirihan**, L. Tjäderhane, D. Pashley, A. Tezvergil-Mutluay '*Fluoride prevents dentin matrix degradation by endogenic collagenolytic enzymes*' 2015 IADR/AADR/CADR General Session, Boston, USA.
34. *A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, M.M. Mutluay. '*Effect of self-adhesive cements on endogenous proteolytic activity of dentin*'. International Congress of Prosthodontics, 16th Biennial Meeting, September 17 - 20, 2015, Seoul, Korea.
35. ***R. Seseogullari-Dirihan**, P. Vallittu, A. Tezvergil-Mutluay. '*Effect of Crosslinker Treatment on Micropush-out Bond Strength to Dentin.*' 2014 IADR/PER Congress, 10-13 September 2014, Dubrovnik, Croatia.
36. *A. Alani, M. Mutluay, **R. Seseogullari-Dirihan**, L. Tjäderhane, A. Tezvergil-Mutluay. '*Immediate effect of specific protease inhibitors on dentin bond strength.*' 2014 IADR/PER Congress, 10-13 September 2014, Dubrovnik, Croatia.
37. *P. Altinci, M. Mutluay, **R. Seseogullari-Dirihan**, L. Tjäderhane, A. Tezvergil-Mutluay. '*NaF prevents the proteolytic degradation of demineralized dentin matrix.*' 2014 IADR/PER Congress, 10-13 September 2014, Dubrovnik, Croatia.
38. ***R. Seseogullari-Dirihan**, M.T. Atay, D.H. Pashley, A. Tezvergil-Mutluay '*Effect of curcuminoid pretreatment on dentin endogenous enzymes.*'. Academy of Dental Materials 8-11 October 2014, Bologna, Italy.
39. ***R. Seseogullari-Dirihan**, F. Apollonio, A. Mazzoni, L. Tjäderhane, L. Breschi, D. Pashley, and A. Tezvergil-Mutluay. '*Inactivation of dentin proteases by collagen crosslinkers*'. IADR General Session, June 2014, Cape Town, South Africa.
40. *A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, M.M. Mutluay, A. Mazzoni, L. Breschi, L. Tjäderhane, D.H. Pashley '*The effect of demineralization duration and concentration on dentin protease activity*'. AADR Annual Meeting & Exhibition, March 19-22, 2014, Charlotte, NC, USA.
41. ***R. Seseogullari-Dirihan**, F. Apollonio, A. Mazzoni, L. Tjäderhane, L. Breschi, D. Pashley, and A. Tezvergil-Mutluay '*Inactivation of MMP-2 and -9 on dentin*'. CED/IADR, September 2013, Florence, Italy.
42. *A. Usumez, A. Tezvergil-Mutluay, T. Sari, **R. Seseogullari-Dirihan**, B.S. Oguz Ahmet, and N. Gutknecht '*Effect of acid or laser on degradation of dentin matrix*'. CED/IADR, September 2013, Florence, Italy.
43. ***R. Seseogullari-Dirihan**, L. Tjäderhane, P. Vallittu and A. Tezvergil-Mutluay '*Inactivation of dentin protease activity by photo-activated riboflavin*'. 101st FDI Congress, August 2013, Istanbul, Turkey.
44. *B.S. Oguz Ahmet, **R. Seseogullari-Dirihan**, B. Bek, D. Pashley and A. Tezvergil-Mutluay '*Inhibitory effect of quaternary ammonium methacrylates on dentin protease activity*'. 101st FDI Congress, August 2013, Istanbul, Turkey.

45. ***R. Seseogullari-Dirihan**, M. Yahyazadehfar, M.M. Mutluay, H. Majd, H. Ryou, D. Arola, and A. Tezvergil-Mutluay '*Fatigue resistance of endodontically treated teeth restored with metal-free posts.*'. IADR, March 2013, Seattle, USA.
46. ***R. Seseogullari-Dirihan**, A. Mazzoni, L. Tjaderhane, L. Breschi, M.M. Mutluay, D. Pashley, And A. Tezvergil-Mutluay, '*Effect of demineralization on matrix metalloproteinase release in dentin.*'. IADR, March 2013, Seattle, USA.
47. *B.S. Oguz Ahmet, Z. Seyfioglu Polat, **R. Seseogullari-Dirihan**, M.M. Mutluay, B. Bek, and A. Tezvergil-Mutluay '*Influence of benzalkonium chloride on conversion and hardness of resin-cements.*'. IADR, March 2013, Seattle, USA.
48. ***R. Seseogullari-Dirihan**, L Tjaderhane, L Breschi, P Vallittu, DH Pashley, A. Tezvergil-Mutluay '*Effect of pretreatment pH on dentin protease inactivation by carbodiimide.*'. Academy of Dental Materials 19-21 September 2012, Orlando, FL, USA.
49. ***R. Seseogullari-Dirihan**, L. Tjaderhane, D. Pashley, A. Tezvergil-Mutluay '*Effect of collagen crosslinkers on dentin matrix metalloproteinase activity.*'. IADR 15-17 September 2012, Helsinki, Finland.
50. *P. Altinci, **R. Seseogullari-Dirihan**, G. Can, L. Tjaderhane, D. Pashley, and A. Tezvergil-Mutluay, '*Effective zinc ion concentration for the dentin matrix metalloproteinase inhibition.*'. IADR, September 2012, Helsinki, Finland.
51. *A. Tezvergil-Mutluay, **R. Seseogullari-Dirihan**, M. Mutluay, L. Tjaderhane, L. Breschi, and D. Pashley '*The evaluation of host-derived proteolytic-activity of dentin by selective inhibitors.*'. IADR, September 2012, Helsinki, Finland.
52. *A. Tezvergil-Mutluay, M.M. Mutluay, **R. Seseogullari-Dirihan**, K. Agee, L. Breschi, A. Mazzoni, L. Tjaderhane, Y. Nishitani, F. Tay, and D. Pashley. '*Effects of acid-etching on endogenous MMP activity of EDTA-demineralized dentin.*'. AADR Annual Meeting, March 2012 Tampa, USA.
53. ***R. Seseogullari-Dirihan**, P. Vallittu, D.H. Pashley, A. Tezvergil-Mutluay '*the inhibitory effect of alcohol pre-treatment on dentin MMPs.*'. European Dental Materials Congress, August 2011 Turku, Finland.
54. *A. Kaya, Y. Atalay, S. Atilgan, **R. Şeşeoğulları Dirihan**, S. Güven '*Implant procedure after the biphosphanat(bp)-related osteonecrosis of the Jaw (BRONJ): A case report.*'. Turkish Implantology Association International Scientific Congress ICOI 2010 Istanbul, Turkey.
55. ***R Şeşeoğulları Dirihan**, İ.H. Tacir, P.K. Vallittu, L.V.J. Lassila. '*A new pontic design for inlay retained fiber-reinforced composite fixed partial denture.*'. CED/IADR 2010 General Session July 14-17 2010 Barcelona, Spain.
56. *D. Toprak, B. Yılmaz, **R. Şeşeoğulları Dirihan**, Z. Seyfioglu Polat, İ.H. Tacir, Y. Çelik '*Evaluating the in vitro retention of different surface treated zirconia posts cemented with two different luting agents by using tensile stress.*'. 34th Annual Congress of European Prosthodontic Association 23-25 September 2010 Prishtina, Kosovo.
57. B. Yılmaz, ***R. Şeşeoğulları Dirihan**, D. Toprak, N. Berk, Z. Seyfioglu Polat, İ.H. Tacir '*Evaluating The effect of Er,Cr:YSSG laser application on decementation of dental ceramic restorations.*'. 34th Annual Congress of European Prosthodontic Association 23-25 September 2010 Prishtina, Kosovo.
58. Y.S. Erdal, ***R. Şeşeoğulları Dirihan**, İ.H. Tacir, D. Erdal '*A true "Dens in Dent" in ancient Perge (Antalya, TURKEY).*'. 34th Annual Congress of European Prosthodontic Association 23-25 September 2010 Prishtina, Kosovo.
59. ***R Şeşeoğulları Dirihan**, İ.H. Tacir, *Zelal Seyfioglu Polat '*Prothetic rehabilitation of Down syndrome: A case report.*'. Türk Dişhekimliği Birliği 17th Turkish Dental Association 17th International Dental Congress June 2010 Bursa, Turkey.
60. ***R Şeşeoğulları Dirihan**, İ.H. Tacir, Z. Seyfioglu Polat '*Application of Fiber-reinforced Composite Restorations: 2 cases.*'. Turkish Dental Association 17th International Dental Congress June 2010 Bursa, Turkey.
61. ***R. Şeşeoğulları Dirihan**, S. Güven, İ.R. Toptanci '*Rehabilitation of a patient with bruxizm associated with tooth tissue loss with porcelain veneer crowns.*'. 32nd Annual Congress of European Prosthodontic Association 4-6 September 2008 Pecs, Hungary.
62. ***R. Şeşeoğulları Dirihan**, E. Göncü Basaran, S. Guven, İ.H. Tacir '*Esthetic rehabilitation with single-implant restoration: Three cases report.*' 32nd Annual Congress of European Prosthodontic Association 4-6 September 2008 Pecs, Hungary.
63. ***R. Şeşeoğulları Dirihan**, E. Göncü Basaran, S. Guven '*Overdentures on natural teeth: Two case reports.*'. 32nd Annual Congress of European Prosthodontic Association 4-6 September 2008 Pecs, Hungary.
64. E. Göncü Basaran, ***R. Şeşeoğulları Dirihan**, E. Ayna '*Tooth-supported overdenture: 3 case reports.*'. 6TH Aegean Region Chambers of Dentists International Scientific Congress and Exhibition 1-3 December 2006 Antalya, Turkey.
65. E. Göncü Basaran, ***R. Şeşeoğulları Dirihan**, S. Guven '*Full ceramic restoration of incisor teeth in children.*'. Turkish Dental Association 15th International Dental Congress 3-6 July 2008 Istanbul, Turkey.

66. S. Guven, ***R.Şeşeoğulları Dirihan**, E. Göncü Basaran 'An alternative treatment of anterior teeth affected by enamel hypoplasia: Two case reports'. Turkish Dental Association 15th International Dental Congress 3-6 July 2008 Istanbul, Turkey.
67. ***R. Şeşeoğulları Dirihan**, E. Göncü Basaran, S. Guven 'Direct laminate veneer application in diastema: Two case reports.'. Turkish Dental Association 15th International Dental Congress 3-6 July 2008 Istanbul, Turkey.

Certificates/Courses

1. **Dental Tissue Regeneration Investigation Methods** (40 hours) CED-IADR Summer School 12-16 June 2017 Marseille, France
2. **Laboratory Animal Science Certificate Program** (80 hours) March 2016 Turku, Finland.
3. **Approaches on Clinical Research (FINDOS)**, June 3rd-5th, 2013, Ystad, Sweden.
4. **Basic Statistical Analyses Using SPSS**. 19-26 April 2013, Turku, Finland.
5. **Inflammation and Immunity** (20 hours) 22-25 May 2012 Tuusula, Finland.
6. **Basic Proteomic Course**. May 28 – June 1 2012, Turku, Finland.
7. **Series Course for Researchers- Part II: Scientific Writing, Posters and Oral Presentations** (16hrs) 11-12 October 2012, Helsinki, Finland.
8. **Prevention in Dentistry** (12 hrs) 1-2 December 2012, Turku, Finland.
9. **Dental Materials Summer School** (20 hours) European Dental Materials Congress 22-24 August 2011 Seili, Finland.
10. **Course In Laboratory Animal Science For Researcher** (Long-term, 80 hours) May 2010 Diyarbakır, Turkey.
11. **Long-term Implant Course** ICOI Meffert Implant Institute (50 hours) 8-12 March 2006 Ankara, Turkey.
12. **Kötü Alışkanlıkların Düzeltilmesi Amacıyla Yapılan Ortodontik Aygıtlar ve Çapraz Kapanışın Düzeltilmesi ve Yer Tutucular Kursu** 12th Turkish Dental Association International Dental Congress 22 June 2005 Istanbul, Turkey.
13. **Frialit Implant System Course** TDB 11th Turkish Dental Association International Dental Congress, 20-22 May 2004 Istanbul, Turkey

