

Anton Sculean

Curriculum Vitae

September 2019

1. **Name:** Anton Sculean

2. **Address:**

WORK:

Department of Periodontology
School of Dental Medicine
University of Bern
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3. **Date and Place of Birth:**

14th August 1965, Targu-Mures (Neumarkt), Romania

4. **Citizenship:** German

5. **Education:**

- | | |
|----------------------------|--|
| 2015: | - Board (Swiss) certified Specialist in Periodontology |
| 2001: Ph.D. (Habilitation) | - University of Saarland, Homburg, Germany |
| 1999: | - Specialist of the German Society of Periodontology (DGP) |
| 1997: M.S. | - Master of Science in Periodontology - Royal Dental College Aarhus, Denmark |
| 1994: Dr.med.dent. | - University of Münster, Germany |
| 1990: D.M.D. | - Semmelweis University, Budapest, Hungary |

6. **Current Positions:**

- Executive Director (Head of School) of the School of Dental Medicine, University of Bern, Switzerland
- Professor and Chair of the Department of Periodontology, University of Bern, Switzerland
- Board Member of the Osteology Foundation
- Immediate Past President of the European Federation of Periodontology (EFP) (31 member countries)
- President of the International Academy of Periodontology (IAP)

7. **Past Positions:**

- President of the European Federation of Periodontology (EFP) (2018-2019) (31 member countries)
- Past President of the Swiss Society of Periodontology (SSP) (2012-2016)
- Past President of the Periodontal Research Group (PRG) of the International Association for Dental Research (IADR) (2009-2010)

- Director of the Research Unit of the School of Dental Medicine, University of Bern, Switzerland (2009-2015)
- Head of the Department of Periodontology and Director of the EFP accredited postgraduate program in Periodontology at the Radboud University, Nijmegen, The Netherlands (2004-2008)
- Head of the Section of Periodontology at the Department of Conservative Dentistry and Periodontology, Johannes Gutenberg University, Mainz, Germany (2002-2004)

8. Research

8.1 332 publications in peer reviewed scientific journals

H-index

(Date accessed: September 4, 2019)

On google scholar:

h-index: 73

i10-index: 241

Total citations (with and without self citations): 16618

On web of knowledge (all databases)

h-index: 53

Total publications: 394

Average citations per item: 24.56

Sum of times cited: 9'675

Sum of times cited without self citations: 8'459

8.1.2 Peer-reviewed original publications

1. Iorio-Siciliano V, Blasi A, Stratul SI, Ramaglia L, **SCULEAN A**, Salvi GE, Rusu D. Anti-infective therapy of peri-implant mucositis with adjunctive delivery of a sodium hypochlorite gel: a 6-month randomized triple-blind controlled clinical trial. *Clin Oral Investig.* 2019 (in press)
2. Deppe H, Vacha E, Einsenhart-Rothe R, Wantia N, Wagenpfeil S, **SCULEAN A**. Periodontal bacteria in prosthetic joint infection: a microbiologic analysis of 1673 cases. *Quintessence Int.* 2019 (in press)
3. Le Roch S, Rouche F, Valet F, Abrahamsson I, Artzi Z, Asbi T, Balta MG, Bizzarro S, Buti J, Chaushu L, Danser M, De Carvalho B, Garabedian J, Goldstein M, Gursoy H, Harmouche L, Harrison P, Herrera D, Horwitz J, Huck O, Imber JC, Karlsson K, Kerner S, Kozlowsky A, Kuru B, Lecloux G, Lambert F, Lim J, Madeley E, Mayer Y, Molemans B, Mora F, Noguerol F, Nuzzo G, Petit C, Polyzois I, Rabah K, Rotundo R, Salvi GE, Sanz-Sanchez I, **SCULEAN A**, Shapira L, Temmerman A, Teughels W, Yarimoglu E, Bouchard P. European Survey on Criteria of Aesthetics for Periodontal Evaluation: the ESCAPE study. *J Clin Periodontol* (in press)
4. Arweiler NB, Marx VK, Laugisch O, **SCULEAN A**, Auschill TM. Clinical evaluation of a newly developed chair side test to determine periodontal pathogens. *J Periodontol.* 2019 Aug 8. doi: 10.1002/JPER.19-0180.
5. Miron RJ, Xu H, Chai J, Wang J, Zheng S, Feng M, Zhang X, Wei Y, Chen Y, Mourão CFAB, **SCULEAN A**, Zhang Y. Comparison of platelet-rich fibrin (PRF) produced using 3 commercially available centrifuges at both high (~700 g) and low (~200 g) relative centrifugation forces. *Clin Oral Investig.* 2019 Jul 19. doi: 10.1007/s00784-019-02981-2. [Epub ahead of print]
6. Möller B, Bender P, Eick S, Kuchen S, Maldonado A, Potempa J, Reichenbach S, **SCULEAN A**, Schwenzer A, Villiger PM, Wong A, Midwood KS. Treatment of severe periodontitis may improve clinical disease activity in otherwise treatment-refractory rheumatoid arthritis patients. *Rheumatology (Oxford).* 2019 Jul 10. pii: kez287. doi: 10.1093/rheumatology/kez287. [Epub ahead of print].
7. Stähli A, Imber JC, Raptis E, Salvi GE, Eick S, **SCULEAN A**. Effect of enamel matrix derivative on wound healing following gingival recession coverage using the modified coronally advanced tunnel and subepithelial connective tissue graft: a randomised, controlled clinical study. *Clin Oral Investig.* 2019 Jul 9. doi: 10.1007/s00784-019-03008-6. [Epub ahead of print]
8. Eliezer M, **SCULEAN A**, Miron RJ, Nemcovsky C, Weinberg E, Weinreb M, Zoabi H, Bosshardt DD, Fujioka-Kobayashi M, Moses O. Hyaluronic acid slows down collagen membrane degradation in uncontrolled diabetic rats. *J Periodontal Res.* 2019 Jun 12. doi: 10.1111/jre.12665. [Epub ahead of print]
9. Miron RJ, Chai J, Zheng S, Feng M, **SCULEAN A**, Zhang Y. A novel method for evaluating and quantifying cell types in platelet rich fibrin and an introduction to horizontal centrifugation. *J Biomed Mater Res A.* 2019 May 30. doi: 10.1002/jbm.a.36734. [Epub ahead of print]

10. Grzech-Leśniak K, Gaspirc B, **SCULEAN A.** Clinical and microbiological effects of multiple applications of antibacterial photodynamic therapy in periodontal maintenance patients. A randomized controlled clinical study. *Photodiagnosis Photodyn Ther.* 2019 May 21. pii: S1572-1000(19)30068-7. doi: 10.1016/j.pdpt.2019.05.028. [Epub ahead of print]
11. Ciurescu CE, Cosgarea R, Ciurescu D, Gheorghiu A, Popa D, Franzen R, Arweiler NB, **SCULEAN A**, Gutknecht N. Adjunctive use of InGaAsP and Er,Cr:YSGG lasers in nonsurgical periodontal therapy: a randomized controlled clinical study. *Quintessence Int.* 2019;50(6):436-447.
12. Barrak I, Boa K, Joób-Fancsaly Á, Varga E, **SCULEAN A**, Piffkó J. Heat generation during guided and freehand implant site preparation at drilling speeds of 1500 and 2000 RPM at different irrigation temperatures: an in vitro study. *Oral Health Prev Dent.* 2019 May 9:1-8.
13. Deppe H, Ritschl LM, Kleinschmidt J, Wagenfeil S, **SCULEAN A.** Contiguity between the mandibular canal and the mandibular third molar in panoramic tomography compared with cone beam computed tomography: a topographic analysis. *Quintessence Int.* 2019;50(6):470-477.
14. Kobayashi E, Fujioka-Kobayashi M, Saulacic N, Schaller B, **SCULEAN A**, Miron RJ. Effect of enamel matrix derivative liquid combination with a natural bone mineral on new bone formation in a rabbit GBR model. *Clin Oral Implants Res.* 2019 Jun;30(6):542-549.
15. Kunz D, Wirth J, **SCULEAN A**, Eick S. In-vitro-activity of additive application of hydrogen peroxide in antimicrobial photodynamic therapy using LED in the blue spectrum against bacteria and biofilm associated with periodontal disease. *Photodiagnosis Photodyn Ther.* 2019 Jun;26:306-312.
16. Marian D, Rusu D, Stratul SI, Cainiceanu H, **SCULEAN A**, Anghel A. Association of Vitamin D receptor gene polymorphism with chronic periodontitis in a population in western Romania. *Oral Health Prev Dent.* 2019;17(2):157-165.
17. Stähli A, Maheen CU, Strauss FJ, Eick S, **SCULEAN A**, Gruber R. Caffeic acid phenethyl ester protects against oxidative stress and dampens inflammation via heme oxygenase 1. *Int J Oral Sci.* 2019 Feb 20;11(1):6.
18. Eick S, Gadzo N, Tacchi M, **SCULEAN A**, Potempa J, Stavropoulos A. Gingipains impair attachment of epithelial cell to dental titanium abutment surface. *J Biomed Mater Res B Appl Biomater.* 2019 Feb 14. doi: 10.1002/jbm.b.34345. [Epub ahead of print]
19. Shirakata Y, Nakamura T, Shinohara Y, Nakamura-Hasegawa K, Hashiguchi C, Takeuchi N, Imafuji T, **SCULEAN A**, Noguchi K. Split-mouth evaluation of connective tissue graft with or without enamel matrix derivative for the treatment of isolated recession defects in dogs. *Clin Oral Investig.* 2019 Aug;23(8):3339-3349.
20. Bender P, Egger A, Westermann M, Taudte N, **SCULEAN A**, Potempa J, Möller B, Buchholz M, Eick S. Expression of human and Porphyromonas gingivalis glutaminyl cyclases in periodontitis and rheumatoid arthritis. A pilot study. *Arch Oral Biol.* 2019 Jan; 97:223-230.
21. Ramseier CA, Nydegger M, Walter C, Fischer G, **SCULEAN A**, Lang NP, Salvi GE. Time between recall visits and residual probing depths predict long-term stability in patients enrolled in supportive periodontal therapy. *J Clin Periodontol.* 2019 Feb;46(2):218-230.
22. Wang Y, Zhang Y, **SCULEAN A**, Bosshardt DD, Miron RJ. Macrophage behavior and interplay with gingival fibroblasts cultured on six commercially available titanium, zirconium, and titanium-zirconium dental implants. *Clin Oral Investig.* 2019 Aug;23(8):3219-3227.
23. Miron RJ, Dham A, Dham U, Zhang Y, Pikos MA, **SCULEAN A.** The effect of age, gender, and time between blood draw and start of centrifugation on the size outcomes of platelet-rich fibrin (PRF) membranes. *Clin Oral Investig.* 2019 May;23(5):2179-2185.
24. Schmidt KE, Auschill TM, **SCULEAN A**, Arweiler NB. Clinical evaluation of non-surgical cleaning modalities on titanium dental implants during maintenance care: a 1-year follow-up on prosthodontic suprastructures. *Clin Oral Investig.* 2019 Apr;23(4):1921-1930.
25. Asparuhova MB, Kiryak D, Eliezer M, Mihov D, **SCULEAN A.** Activity of two hyaluronan preparations on primary human oral fibroblasts. *J Periodont Res.* 2019 Feb;54(1):33-45.
26. Kloukos D, Koukos G, Doulis I, **SCULEAN A**, Stavropoulos A, Katsaros C. Gingival thickness assessment at the mandibular incisors with four methods. A cross sectional study. *J Periodontol.* 2018 Nov;89(11):1300-1309.
27. Pilloni A, Schmidlin PR, Sahrmann P, **SCULEAN A**, Rojas MA. Effectiveness of adjunctive hyaluronic acid application in coronally advanced flap in Miller class I single gingival recession sites: a randomized controlled clinical trial. *Clin Oral Investig.* 2019 Mar;23(3):1133-1141.
28. Tristiu R, Vesa S, Dumitru RB, Arweiler NB, Cosgarea RM, Lascu L, Rednic S, Eick S, **SCULEAN A**, Cosgarea R. Association of oral-health-related quality of life and general health assessment in patients with rheumatoid arthritis. *Oral Health Prev Dent.* 2018;16(3):271-280.
29. Grzech-Leśniak K, Matys J, Źmuda-Stawowiak D, Mroczka K, Dominiak M, Brugnera Junior A, Gruber R, Romanos GE, **SCULEAN A.** Er:YAG laser for metal and ceramic bracket debonding: an in vitro study on intrapulpal temperature, SEM, and EDS analysis. *Photomed Laser Surg.* 2018 2018 Nov;36(11):595-600.
30. **SCULEAN A**, Allen EP. The laterally closed tunnel for the treatment of deep isolated mandibular recessions: surgical technique and a report of 24 cases. *Int J Periodontics Restorative Dent.* 2018 Jul/Aug;38(4):479-487.
31. Grzech-Leśniak K, **SCULEAN A**, Gašpirc B. Laser reduction of specific microorganisms in the periodontal pocket using Er:YAG and Nd:YAG lasers: a randomized controlled clinical study. *Lasers Med Sci.* 2018 Sep;33(7):1461-1470.
32. Arweiler NB, Grelle F, **SCULEAN A**, Heumann C, Auschill TM. Antibacterial effect and substantivity of toothpaste slurries in vivo. *Oral Health Prev Dent.* 2018;16:175-181.
33. Cosgarea A, Tristiu R, Dumitru RB, Arweiler NB, Rednic S, Sirbu CI, Lascu L, **SCULEAN A**, Eick S. Effects of non-surgical periodontal therapy on periodontal laboratory and clinical data as well as on disease activity in patients with rheumatoid arthritis. *Clin Oral Investig.* 2019 Jan;23(1):141-151.
34. Takagi T, Aoki A, Ichinose S, Taniguchi Y, Tachikawa N, Shinoki T, Meinzer W, **SCULEAN A**, Izumi Y. Effective removal of calcified deposits on microstructured titanium fixture surfaces of dental implants with erbium lasers. *J Periodontol* 2018, 2018 Jun;89(6):680-690.
35. Eckert M, Mizgalska D, **SCULEAN A**, Potempa J, Stavropoulos A, Eick S. In vivo expression of proteases and protease inhibitor, a serpin, by periodontal pathogens at teeth and implants. *Mol Oral Microbiol* 2018 Jun;33(3):240-248.
36. Eick S, Nydegger J, Bürgin W, Salvi GE, **SCULEAN A**, Ramseier C. Microbiological analysis and outcomes of periodontal treatment with or without adjunctive systemic antibiotics. A retrospective analysis. *Clin Oral Investig.* 2018 Dec;22(9):3031-3041.

37. Schmidt KE, Auschill TM, Heumann C, Frankenberger R, Eick S, **SCULEAN A**, Arweiler NB. Clinical and laboratory evaluation of the effects of different treatment modalities on titanium healing caps: a randomized, controlled clinical trial. *Clin Oral Investig.* 2018 Jul;22(6):2149-2160.
38. Pirracchio L, Joos A, Luder N, **SCULEAN A**, Eick S. Activity of taurolidine gels on ex vivo periodontal biofilm. *Clin Oral Investig.* 2018 Jun;22(5):2031-2037.
39. Deppe H, Wolff C, Bauer F, Ruthenberg R, **SCULEAN A**, Mücke T. Dental implant surfaces after insertion in bone: an in vitro study in four commercial implant systems. *Clin Oral Investig.* 2018; 22(3):1593-1600
40. Shirakata Y, Miron RJ, Shinohara Y, Nakamura T, Sena K, Horai N, Bosshardt DD, Noguchi K, **SCULEAN A**. Healing of 2-wall intrabony defects treated with a novel EMD-liquid. A preclinical study in monkeys. *J Clin Periodontol.* 2017 Dec;44(12):1264-1273.
41. **SCULEAN A**, Cosgarea R, Katsaros C, Arweiler NB, Miron RJ, Deppe H. Treatment of single and multiple Miller Class I and III gingival recessions at crown-restored teeth in maxillary esthetic areas. *Quintessence Int.* 2017 Sep 22:1-6. doi: 10.3290/j.qi.a39031.
42. Dolińska E, Skurska A, Dymicka-Piekarska V, Milewski R, Pietruski J, Pietruska M, **SCULEAN A**. The Effect of Nonsurgical Periodontal Therapy on the Level of Human Neutrophil Peptides 1-3 in Patients with Aggressive Periodontitis. *Oral Health Prev Dent.* 2017;15(6):557-561.
43. Bassetti MA, Bassetti RG, **SCULEAN A**, Salvi GE, Bornstein MM, Ramseier CA. The Impact of Brief Interventions for Tobacco Cessation on Patients' Awareness of Cigarette Smoking as a Risk Factor for Chronic Periodontitis. *Oral Health Prev Dent.* 2017;15(4):391-397. doi: 10.3290/j.ohpd.a38737.
44. Cosgarea R, Heumann C, Juncar R, Tristiu R, Lascu L, Salvi GE, Arweiler NB, **SCULEAN A**. One year results of a randomized controlled clinical study evaluating the effects of non-surgical periodontal therapy of chronic periodontitis in conjunction with three or seven days systemic administration of amoxicillin/metronidazole. *PLoS One.* 2017 Jun 29;12(6):e0179592. doi: 10.1371/journal.pone.0179592. eCollection 2017.
45. Bender P, Salvi GE, Buser D, **SCULEAN A**, Bornstein MM. Correlation of Three-Dimensional Radiologic Data with Subsequent Treatment Approach in Patients with Peri-implantitis: A Retrospective Analysis. *Int J Periodontics Restorative Dent.* 2017 Jul/Aug;37(4):481-489.
46. Kobayashi E, Fujioka-Kobayashi M, **SCULEAN A**, Chappuis V, Buser D, Schaller B, Döri F, Miron RJ. Effects of platelet rich plasma (PRP) on human gingival fibroblast, osteoblast and periodontal ligament cell behaviour. *BMC Oral Health.* 2017 Jun 2;17(1):91. doi: 10.1186/s12903-017-0381-6.
47. Eick S, Hofpeter K, **SCULEAN A**, Ender C, Klimas S, Vogt S, Nietzsche S. Activity of Fosfomycin- and Daptomycin-Containing Bone Cement on Selected Bacterial Species Being Associated with Orthopedic Infections. *Biomed Res Int.* 2017;2017:2318174.
48. Dolińska E, Skurska A, Pietruska M, Dymicka-Piekarska V, Milewski R, Pietruski J, **SCULEAN A**. The Effect of Nonsurgical Periodontal Therapy on HNP1-3 Level in Gingival Crevicular Fluid of Chronic Periodontitis Patients. *Arch Immunol Ther Exp (Warsz).* 2017 Aug;65(4):355-361.
49. Eick S, Meier I, Spoerlé F, Bender P, Aoki A, Izumi Y, Salvi GE, **SCULEAN A**. In Vitro-Activity of Er:YAG Laser in Comparison with other Treatment Modalities on Biofilm Ablation from Implant and Tooth Surfaces. *PLoS One.* 2017 Jan 26;12(1):e0171086. doi: 10.1371/journal.pone.0171086. eCollection 2017.
50. Miron RJ, Fujioka-Kobayashi M, Buser D, Zhang Y, Bosshardt DD, **SCULEAN A**. Combination of Collagen Barrier Membrane with Enamel Matrix Derivative-Liquid Improves Osteoblast Adhesion and Differentiation. *Int J Oral Maxillofac Implants.* 2017 Jan/Feb;32(1):196-203.
51. Fujioka-Kobayashi M, Müller HD, Mueller A, Lussi A, **SCULEAN A**, Schmidlin PR, Miron RJ. In vitro effects of hyaluronic acid on human periodontal ligament cells. *BMC Oral Health.* 2017 Jan 16;17(1):44. doi: 10.1186/s12903-017-0341-1.
52. Shirakata Y, Miron RJ, Nakamura T, Sena K, Shinohara Y, Horai N, Bosshardt DD, Noguchi K, **SCULEAN A**. Effects of EMD liquid (Osteogain) on periodontal healing in class III furcation defects in monkeys. *J Clin Periodontol.* 2017 Mar;44(3):298-307.
53. Miron RJ, Fujioka-Kobayashi M, Zhang Y, **SCULEAN A**, Pippenger B, Shirakata Y, Kandalam U, Hernandez M. Osteogain® loaded onto an absorbable collagen sponge induces attachment and osteoblast differentiation of ST2 cells in vitro. *Clin Oral Investig.* 2017 Sep;21(7):2265-2272.
54. Eick S, Kindblom C, Mizgalska D, Magdoń A, Jurczyk K, **SCULEAN A**, Stavropoulos A. Adhesion of Porphyromonas gingivalis and Tannerella forsythia to dentin and titanium with sandblasted and acid etched surface coated with serum and serum proteins - An in vitro study. *Arch Oral Biol.* 2017 Mar;75:81-88.
55. Miron RJ, Zhang Q, **SCULEAN A**, Buser D, Pippenger BE, Dard M, Shirakata Y, Chandad F, Zhang Y. Osteoinductive potential of 4 commonly employed bone grafts. *Clin Oral Investig.* 2016 Nov;20(8):2259-2265.
56. Laugisch O, Ramseier CA, Salvi GE, Hägi TT, Bürgin W, Eick S, **SCULEAN A**. Effects of two different post-surgical protocols including either 0.05 % chlorhexidine herbal extract or 0.1 % chlorhexidine on post-surgical plaque control, early wound healing and patient acceptance following standard periodontal surgery and implant placement. *Clin Oral Investig.* 2016 Nov;20(8):2175-2183.
57. Jurczyk K, Nietzsche S, Ender C, **SCULEAN A**, Eick S. In-vitro activity of sodium-hypochlorite gel on bacteria associated with periodontitis. *Clin Oral Investig.* 2016 Nov;20(8):2165-2173.
58. Miron RJ, Shuang Y, **SCULEAN A**, Buser D, Chandad F, Zhang Y. Gene array of PDL cells exposed to Osteogain in combination with a bone grafting material. *Clin Oral Investig.* 2016 Nov;20(8):2037-2043.
59. Eren G, Kantarcı A, **SCULEAN A**, Atilla G. Vascularization after treatment of gingival recession defects with platelet-rich fibrin or connective tissue graft. *Clin Oral Investig.* 2016 Nov;20(8):2045-2053.
60. Schmidlin PR, Fujioka-Kobayashi M, Mueller HD, **SCULEAN A**, Lussi A, Miron RJ. Effects of air polishing and an amino acid buffered hypochlorite solution to dentin surfaces and periodontal ligament cell survival, attachment, and spreading. *Clin Oral Investig.* 2017 Jun;21(5):1589-1598.
61. Shuang Y, Yizhen L, Zhang Y, Fujioka-Kobayashi M, **SCULEAN A**, Miron RJ. In vitro characterization of an osteoinductive biphasic calcium phosphate in combination with recombinant BMP2. *BMC Oral Health.* 2016 Aug 2;17(1):35. doi: 10.1186/s12903-016-0263-3.
62. **SCULEAN A**, Cosgarea R, Stähli A, Katsaros C, Arweiler NB, Miron RJ, Deppe H. Treatment of multiple adjacent maxillary Miller Class I, II, and III gingival recessions with the modified coronally advanced tunnel, enamel matrix derivative, and subepithelial connective tissue graft: A report of 12 cases. *Quintessence Int.* 2016;47(8):653-659.

63. Mueller A, Fujioka-Kobayashi M, Mueller HD, Lussi A, **SCULEAN A**, Schmidlin PR, Miron RJ. Effect of hyaluronic acid on morphological changes to dentin surfaces and subsequent effect on periodontal ligament cell survival, attachment, and spreading. *Clin Oral Investig.* 2017 May;21(4):1013-1019.
64. Schmidt KE, Auschill TM, Heumann C, Frankenberger R, Eick S, **SCULEAN A**, Arweiler NB. Influence of different instrumentation modalities on the surface characteristics and biofilm formation on dental implant neck, in vitro. *Clin Oral Implants Res.* 2017 Apr;28(4):483-490.
65. Cosgarea R, Juncar R, Heumann C, Tristiu R, Lascu L, Arweiler N, Stavropoulos A, **SCULEAN A**. Non-surgical periodontal treatment in conjunction with 3 or 7 days systemic administration of amoxicillin and metronidazole in severe chronic periodontitis patients. A placebo-controlled randomized clinical study. *J Clin Periodontol.* 2016 Sep;43(9):767-777.
66. Bärenfaller V, Clausen C, **SCULEAN A**, Eick S. Effect of photoactivated disinfection using light in the blue spectrum. *J Photochem Photobiol B.* 2016 Mar 8;158:252-257. doi: 10.1016/j.jphotobiol.2016.03.006.
67. Voisin V, Caballé-Serrano J, **SCULEAN A**, Gruber R. Palatal fibroblasts reduce osteoclastogenesis in murinebone marrow cultures. *BMC Oral Health.* 2017;16(1): 34. doi: 10.1186/s12903-016-0195.
68. Miron RJ, Fujioka-Kobayashi M, Zhang Y, Caballé-Serrano J, Shirakata Y, Bosshardt DD, Buser D, **SCULEAN A**. Osteogain improves osteoblast adhesion, proliferation and differentiation on a bovine-derived natural bone mineral. *Clin Oral Implants Res.* 2017 Mar;28(3):327-333.
69. Moreira AR, Santamaria MP, Silvério KG, Casati MZ, Nociti Junior FH, **SCULEAN A**, Sallum EA. Coronally advanced flap with or without porcine collagen matrix for root coverage: a randomized clinical trial. *Clin Oral Investig.* 2016 Dec;20(9):2539-2549.
70. Kobayashi E, Flückiger L, Fujioka-Kobayashi M, Sawada K, **SCULEAN A**, Schaller B, Miron RJ. Comparative release of growth factors from PRP, PRF, and advanced-PRF. *Clin Oral Investig.* 2016 Dec;20(9):2353-2360.
71. Stähli A, Miron RJ, Bosshardt DD, **SCULEAN A**, Gruber R. Collagen Membranes Adsorb the Transforming Growth Factor- β Receptor I Kinase-dependent Activity of Enamel Matrix Derivative. *J Periodontol.* 2016 May;87(5):583-590.
72. Shirakata Y, **SCULEAN A**, Shinohara Y, Sena K, Takeuchi N, Bosshardt DD, Noguchi K. Healing of localized gingival recessions treated with a coronally advanced flap alone or combined with an enamel matrix derivative and a porcine acellular dermal matrix: a preclinical study. *Clin Oral Investig.* 2016 Sep;20(7):1791-800.
73. Deppe H, Mücke T, Wagenpfeil S, Kesting M, Karl J, Noe S, **SCULEAN A**. Are selected IL-1 polymorphisms and selected subgingival microorganisms significantly associated to periodontitis in type 2 diabetes patients? a clinical study. *BMC Oral Health.* 2015 Nov 14;15(1):143. doi: 10.1186/s12903-015-0132-5.
74. Mettraux GR, **SCULEAN A**, Bürgin WB, Salvi GE. Two-year clinical outcomes following non-surgical mechanical therapy of peri-implantitis with adjunctive diode laser application. *Clin Oral Implants Res.* 2016 Jul;27(7):845-849.
75. Miron RJ, Chandad F, Buser D, **SCULEAN A**, Cochran DL, Zhang Y. Effect of Enamel Matrix Derivative Liquid on Osteoblast and Periodontal Ligament Cell Proliferation and Differentiation. *J Periodontol.* 2016 Jan;87(1):91-99.
76. Laugisch O, Wong A, Sroka A, Kantyka T, Koziel J, Neuhaus K, **SCULEAN A**, Venables PJ, Potempa J, Möller B, Eick S. Citrullination in the periodontium-a possible link between periodontitis and rheumatoid arthritis. *Clin Oral Investig.* 2016 May;20(4):675-683.
77. Eick S, Gloor N, Püls C, Zumbrunn J, **SCULEAN A**. In vitro activity of taurolidine gel on bacteria associated with periodontitis. *Clin Oral Investig.* 2016 Apr;20(3):597-606.
78. Miron RJ, **SCULEAN A**, Shuang Y, Bosshardt DD, Gruber R, Buser D, Chandad F, Zhang Y. Osteoinductive potential of a novel biphasic calcium phosphate bone graft in comparison with autographs, xenografts, and DFDBA. *Clin Oral Implants Res.* 2016 Jun;27(6):668-675.
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80. Zhang Y, Jing D, Buser D, **SCULEAN A**, Chandad F, Miron RJ. Bone grafting material in combination with Osteogain for bone repair: a rat histomorphometric study. *Clin Oral Investig.* 2016 Apr;20(3):589-595.
81. Hägi TT, Klemensberger S, Bereiter R, Nietzsche S, Cosgarea R, Flury S, Lüssi A, **SCULEAN A**, Eick S.: A Biofilm Pocket Model to Evaluate Different Non-Surgical Periodontal Treatment Modalities in Terms of Biofilm Removal and Reformation, Surface Alterations and Attachment of Periodontal Ligament Fibroblasts. *PLoS One.* 2015 Jun 29;10(6):e0131056. doi: 10.1371/journal.pone.0131056. eCollection 2015.
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8.1.4 Recent book chapters

1. Miron RJ, Al-Maawi S, **SCULEAN A**, Pikos MA, Zhang Y, Ghanaati S. The Use of Xenografts in Implant Dentistry and Periodontology. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
2. Miron RJ, Zhang Y, Caballé Serrano J, Pikos MA, D'Avenia F, **SCULEAN A**. Membranes for Guided Tissue and Bone Regeneration. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
3. Miron RJ, **SCULEAN A**, Cochran DL, Donos N, Deschner J, Dard M, Zhang Y, Kasaj A, Shirakata Y, Bosshardt DD. Enamel Matrix Derivative: Preclinical Biologic Background. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
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5. Miron RJ, Stavropoulos A, Nikolidakis D, Arweiler NB, Döri F, Zhang Y, Donos N, **SCULEAN A**. Combination Approaches for Periodontal Regeneration: Biologics, Bone Grafts, and Barrier Membranes. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
6. Miron RJ, Shirakata Y, Zhang Y, Pippenger B, Nakamura T, Noguchi K, **SCULEAN A**. Osteogain: The Next Generation of Enamel Matrix Derivative. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
7. Fujioka-Kobayashi M, Eliezer M, Schmidlin PR, **SCULEAN A**, Miron RJ. Next-Generation Wound Healing with Hyaluronic Acid. In Miron RJ, Zhang Y. Next Generation Biomaterials for Bone and Periodontal Regeneration. Quintessence Publishing Co. Chicago USA. (2019).
8. Cosgarea R, Kloukos D, Katsaros C, **SCULEAN A**. Etiology and treatment of gingival recessions in orthodontically treated patients. In Eliades T, Katsaros C. The ortho-perio patient. Clinical evidence & Therapeutic guidelines. Quintessence Publishing Co. Chicago USA. (2019).

8.1.5 Supervised Research Students:

Over the past 20 years I have supervised/co-supervised 7 PhDs/Habilitations, 32 Dr.med.dent.thesis and 16 MSc Theses

8.1.6 Research Awards / Distinctions:

- 2018 Adjunct Professor, School of Dental Medicine, Medical University of Vienna
- 2018 European Orthodontic Society (EOS) Distinguished Teacher Lecturer for 2018
- 2016 Prof. dr. Lojze Brencic memorial lecture of the Slovenian Society of Periodontology
- 2013 Arthur H. Merritt Memorial Lecture - Baylor College of Dentistry, Texas, USA
- 2012 IADR/Straumann Award in Regenerative Periodontal Medicine
- 2009 Honorary Professor at the University of Szeged, Hungary
- 2008 Honorary doctorate (Dr.h.c.) of the Semmelweis University Budapest, Hungary
- 2007 Honorary doctorate (Dr.h.c.) of the Victor Babes University, Timisoara, Romania
- 2007 Meridol Award of the German Society of Periodontology for the best scientific publication in clinical research category
- 2005 Meridol Award of the German Society of Periodontology for the best scientific publication in clinical research category
- 2004 Anthony Rizzo Award of the Periodontal Research Group of the International Association for Dental Research (IADR)
- 2000 German Society of Periodontology – Research Award for Oral Presentation: Second Place
- 2000 German Society of Periodontology – Research Award for Oral Presentation: Third Place
- 1999 German Society of Periodontology - Best Poster Award

8.1.7 Research Awards won by Students and Staff Members:

- 2019 Meridol Award of the German Society of Periodontology for the best scientific publication in basic research category – Oliver Laugisch (Post-Graduate Student).
- 2018 German Society of Dentistry – 2nd Research Award – Jan Luca Schmid (Dr.med.dent. student).
- 2018 Meridol Award of the German Society of Periodontology for the best scientific publication in clinical research category – Raluca Cosgarea (Post-Doc).
- 2018 EFP Research Prize in Periodontology (previously Jaccard Prize) - (Christoph Ramseier) (Staff Member).
- 2017 European Association for Osseointegration (EAO) – European Prize for Clinical Innovations in Implant Dentistry - (Giovanni Salvi) (Staff Member).
- 2017 Meridol Award (2nd place) of the German Society of Periodontology for the best scientific publication in clinical research category – Raluca Cosgarea (Post-Doc).
- 2016 ITI André Schroeder Research Prize, International Team for Implantology, Chicago, USA - Richard Miron (PhD Student).
- 2016 German Society of Dentistry – 2nd Research Award – Ivan Meier (Dr.med.dent. student).
- 2016 Swiss Society of Periodontology – 1st Poster Award – Raluca Cosgarea (Post-Doc).
- 2016 Research Award in Periodontal Regeneration at the 2nd International Symposium on Periodontal Regeneration – Yoshinori Shirakata (Post-Doc).
- 2016 Swiss Society of Periodontology – GABA_Award for the Best Scientific Publication – Tobias Hägi (MSc Student).
- 2015 IADR-CED, Robert Frank award for Basic Research Continental European Division - Richard Miron (PhD Student).
- 2015 IADR Young Investigator of the Year Award, Implant Research Group, Boston, USA - Richard Miron (PhD Student).
- 2015 Swiss Society of Periodontology – GABA_Award for the Best Scientific Publication – Pascale Stadelmann (MSc Student).

- 2015 European Federation of Periodontology, 2nd Prize for Graduate Research – Alexandra Stähli (MSc Student).
- 2015 Swiss Society of Periodontology – GABA_Award for the Best Scientific Publication – Christin Stöcklin-Wasmer (MSc Student).
- 2014 IADR Canadian Hatton Award – Senior Basic Research Category North American representative - Richard Miron (PhD Student).
- 2014 Swiss Society of Periodontology – Mühlmann Research Prize – Christoph Ramseier (PhD Student).
- 2014 Swiss Society of Periodontology – 1st Poster Award – Tobias Hägi (MSc Student).
- 2014 German Society of Periodontology – 1st Award for the Best Oral Presentation – Raluca Cosgarea (Post-Doc).
- 2014 German Society of Periodontology – 2nd Award for the Best Poster Presentation – Tobias Hägi (MSc Student).
- 2014 German Society of Periodontology – Award for Research in Implant Dentistry – Mario Bassetti (MSc Student).
- 2014 European Federation of Periodontology, 1st Prize for Graduate Research – Dorothea Schär (MSc Student).
- 2014 European Federation of Periodontology, 3rd Prize for Graduate Research – Christin Stöcklin-Wasmer (MSc Student)
- 2013 German Society of Dentistry – 1st Research Award – Lilly Zollinger (Dr.med.dent. student).
- 2013 Swiss Society of Periodontology – 1st Poster Award – Christin Stöcklin-Wasmer (MSc Student).
- 2013 European Federation of Periodontology, 1st Prize for Graduate Research – Oliver Laugisch (MSc Student).
- 2011 European Association for Osseointegration (EAO) – 1st Prize in Clinical Research Competition – Marco Aglietta (MSc Student).
- 2009 European Federation of Periodontology, 2nd Prize for Graduate Research – Nikos Christodoulides (MSc Student).
- 2006 German Society of Periodontology – 1st Award for the Best Oral Presentation – Alice Kiss (Dr.med.dent. student).
- 2003 German Society of Periodontology – 1st Award for the Best Oral Presentation – Frank Schwarz (Dr.med.dent. student).
- 2002 World Congress of Lasers in Dentistry, Young Investigator Award - Frank Schwarz (Dr.med.dent. student).
- 2002 German Society of Periodontology Best Poster Award – Asta Miliauskaite (Dr.med.dent. student).
- 2001 German Society of Periodontology Best Poster Award – Mohammad Berakdar (Dr.med.dent. student).

8.1.8 Editorial Board Memberships:

- Journal of Dental Research (2015-2018)
- Journal of Clinical Periodontology
- Journal of Periodontal Research
- Clinical Oral Implants Research
- Clinical Advances in Periodontics
- Journal of the International Academy of Periodontology
- Journal de Parodontologie et d'Implantologie Orale
- Timisoara Medical Journal
- Fogorvosi Szemle

8.1.9 Journal Editorships:

- Periodontology 2000 (Volume 68) (Guest Editor)
- Oral Health and Preventive Dentistry (Editor in Chief and Delegating Editor)
- Clinical Oral Investigations (Section Editor for Periodontology)
- Quintessence International (Section Editor for Periodontology and Implant Dentistry)
- BMC Oral Health (Section Editor for Clinical Trials)

8.1.10 Book Editorhips:

- Editor of the book "Periodontal Regenerative Therapy", published by Quintessence in 2010

8.1.11 Organisation of International Congresses and Symposia:

- 2020 Master Clinic of the EFP in Dublin/Ireland (March 5-7, 2020) - Scientific Chair
- 2019 Regeneration Congress (Bern/Switzerland) - Congress Co-President and Scientific Co-Chair
- 2019 Biennial Congress of the International Academy of Periodontology (Bangkok/Thailand) - Scientific Co-Chair
- 2018 Swiss Symposium on Preventive Dentistry (Olten/Switzerland) - Congress Co-President and Scientific Co-Chair
- 2017 Biennial Congress of the International Academy of Periodontology (Brasov/Romania) - Congress Co-President and Scientific Co-Chair
- 2016 Second International Symposium on Regeneration in Periodontology and Implantology (Bern/Switzerland) - Congress Co-President and Scientific Co-Chair
- 2016 Annual Congress of the Swiss Society of Periodontology (Bern/Switzerland) - Congress President and Scientific Chair
- 2014 First International Symposium on Periodontology and Implantology in Transilvania (Sibiu/Romania) - Congress Co-President and Scientific Co-Chair
- 2013 First International Symposium on Regeneration in Periodontology and Implantology (Bern/Switzerland) - Congress Co-President and Scientific Co-Chair
- 2012 Annual Congress of the Swiss Society of Periodontology (Bern/Switzerland) - Congress President and Scientific Chair
- 2011 Biennial Congress of the International Academy of Periodontology (Lviv/Ukraine) - Scientific Chair