



Sotirios KALFAS (short first name: Sotos)

Personal data

Date of birth: January 16, 1959
Citizenship: Swedish and Greek
Academic position: Professor of Preventive Dentistry and Periodontology
Address
 work: Dept. of Preventive Dentistry, Periodontology and Implant Biology, School of Dentistry,
 54124 Thessaloniki, Greece
 home: Nikanoros 36, 54250 Thessaloniki, Greece.
Tel (Int)
 office: (30) 2310 999612
 home: (30) 2310 834678
 mobile: (30) 6977301683
Fax (Int)
 office: (30) 2310 999613
 home: (30) 2310 834678
E-mail address: kalfas@dent.auth.gr and sotoskalfas@gmail.com

Short overview

I was born in Kavala, a town in the sea coast of northern Greece. I moved to Sweden after my high school graduation, in 1976, for studying Dentistry at the University of Lund. In 1982, I received the degree of Dental Surgeon (DDS) from the School of Dentistry in this University (the school is situated in the city of Malmö) and a few months later, I was registered as a Ph.D. student at the department of Oral Microbiology of the same school. I became Odontologiae Doctor (Ph.D.) in 1989 and 2 years later I was promoted to Associate Professor in Oral Microbiology.

Since 1981, I had a number of appointments at the above mentioned school. During the period December 1991 to June 1992, I was working as a guest researcher at the department of Oral Biochemistry of the School of Dentistry of Tohoku University, in Sendai, Japan, supported by a scholarship from the Japanese government.

In July 1994, I was appointed as senior lecturer in Oral Microbiology and assistant chief dentist of the Clinical Oral Microbiology Unit in the School of Dentistry of Umeå University in Sweden. In March 2000, I was appointed as Associate Professor of Preventive Dentistry in the School of Dentistry in Thessaloniki, Greece. In 2005, I was promoted to Professor and since September 2016 I am the Head of the Department of Preventive Dentistry, Periodontology and Implant Biology and the Director of the Sector of Orthodontics, Periodontology, Paediatric Dentistry and Preventive Dentistry, in the School of Dentistry of Aristotle University, Thessaloniki, Greece.

My research activities have been focused on: (a) caries-related microbiological and biochemical aspects, such as acid production in dental plaque and microbial adaptation of the dental plaque ecosystem in relation to application of preventive measures, such as use of sugar substitutes, and to salivary secretion; (b) interactions between periodontitis-associated bacteria and the defense system; (c) the clinical use of antimicrobial substances, chair-side tests and routine microbiological tests; (d) preventive measures for dental caries and periodontal diseases.

Education

Year *Degrees and courses*

1976 High school graduation, 1st High school, Kavala, Greece.
1982 Degree of Dental Surgeon, D.D.S., School of Dentistry, University of Lund, Sweden.

1982 - 95	Several postgraduate courses such as: Scientific result presentation, Scientific methodology, Microbiology, Scanning electronmicroscopy, Immunological aspects of oral diseases, Methods in microbiology, Biochemical separation techniques, Statistics in medicin, Presentation techniques, Analytical epidemiology, Pedagogics, elementary course, Implantology, Molecular biology and Medical molecular genetics
1989	Odontologiae Doctor (Ph.D.), Dept. of oral microbiology, School of Dentistry, University of Lund, Sweden.
1991	Docent (equals to Associate Professor) in oral microbiology, School of Dentistry, University of Lund, Sweden.
2005	Professor in Preventive Dentistry, Aristotle University of Thessaloniki, Greece.

Scholarships - Awards

Year	Degrees and courses
1978-1981	Four undergraduate scholarships of Lund University, Sweden.
1990	Stipendium from "Japan Society for Promotion of Sciences (JSPS)" - Guest researcher at the department of oral biochemistry, Tohoku university in Sendai, Japan.
1991	"Certificate of appreciation" Dental Faculty, Chulalongkorn university in Bangkok, Thailand.
1991	Lars Johan Wallmark's scholarship for young teachers of Lund university, Sweden.
1999	Award of "the best supervisor" presented by the Union of Ph.D. students of Umeå University
2001	Koulourides award, Procter & Gamble, Greece

Membership of Societies/Associations

Period (Years)	Society
1982-2000	Swedish Dental Society
1989-2001	Scandinavian Association for Dental Research
1989-	International Association for Dental Research
1988-2000	Swedish Society for Microbiology
1994-2002	American Society for Microbiology
1995-1998	Board member of VLTF (Dental Society in Västerbotten County)
2000-	Hellenic Dental Society
2001-	Hellenic Society for Preventive Dentistry (President)

Research experience

1. Publications (A list of publications is included in the appendix)

Author/co-author of:

- 109 articles, mostly original research papers, in international and national scientific journals
- 4 book chapters
- 1 book
- Ph.D. Thesis

2. Meetings – Conferences (Participation list available on request)

Active participation (as speaker or moderator) in about 150 international or national scientific meetings and conferences.

3. Research statistics and scores

h-index: 29 [29 excluding self-citations] (source ResearchGate, January 2022)

RG score: 34.75 [The score is higher than 92.5% of ResearchGate members' (source ResearchGate, January 2022)].

Citations: 2,140 (source ResearchGate, June 2021)
Reads: 9,913 (source ResearchGate, June 2021)

5. Reviewer in scientific journals

- **Reviewer for 2 national** (Ellinika Stomatologika Chronika, and Stoma), **and 9 international scientific journals** (Anaerobe, Caries Research, Scandinavian Journal of Dental Research/European Journal of Dental Diseases, Microbial Ecology in Health and Disease, Acta Odontologica Scandinavica, Archivum Immunologiae et Therapiae Experimentalis, Journal of Oral Microbiology, Archives of Oral Biology, and Journal of Periodontal Research).

- **Member of the Editorial Board** of the scientific journal *Caries Research*

Work experience

1. Teaching experience

1.1. Appointments in Lund University, Sweden

Period (years) Employment

1981-1986 Clinical assistant, Dept. of Cariology
1983-1987 Assistant, Dept. of Oral Microbiology
1989-1990 Research associate, Dept. of Oral Microbiology
1990-1994 Associate professor/senior lecturer, Dept. of Oral Microbiology

1.2. Appointments in Umeå university, Sweden

Period (years) Employment

1994-2000 Associate professor/senior lecturer, Director of the Clinical Oral Microbiology Laboratory

1.3. Appointments in Aristotle university, Thessaloniki, Greece

Period (years) Employment

2000-2005 Associate professor of Preventive Dentistry
2005-2016 Professor of Preventive Dentistry
Since 2016 Professor of Preventive Dentistry and Periodontology

1.4. Appointment in European University of Cyprus

2018- External Collaborator-Instructor in Periodontology

1.5. Supervisor in postgraduate programmes

- Main supervisor of 4 Ph.D. students in Sweden (1989-2000)
- Supervisor of 5 Ph.D. students in Greece (2000-ongoing)
- Supervisor of 14 MS students in Sweden and Greece

2. Administrative experience

1987-07-1989 Assistant head (prefect) of the Dept. of Oral Microbiology, Lund university
1989-1990 Acting head (prefect) of the Dept. of Oral Microbiology, Lund university
2000-2016 Several administrative positions (Committee member, co-ordinator) in the Dental School of Thessaloniki
2005 President of the Organizing Committee for the European Workshop of Oral Microbiology held in Chalkidiki, Greece
2016 -2019 Head of the Department and Sector Director

3. General Practitioner

Since 2000 Dentist in own private practice in Thessaloniki, Greece

Other assignments

- *Co-operation with private companies*

For research and development of products by 4 private (mainly pharmaceutical) companies.

- *Member of the National Committee for Oral Health in Greece.*

- *Member of the National Committee for Fluoride in Caries Prevention, Ministry of Health, Greece.*

- *Member of the Committee of The Hellenic Dental Association for the Promotion of Oral Health.*

- *Member of the Advisory Board of European University Cyprus.*

Appendix

List of publications

a) Articles

1. Birkhed D, Edwardsson S, Kalfas S, Svensater G. Cariogenicity of sorbitol. *Swed Dent J* 1984, 8: 147-154.
2. Birkhed D, Kalfas S, Svensater G, Edwardsson S. Microbiological aspects of some caloric sugar substitutes. *Int Dent J* 1985, 35: 9-17.
3. Kalfas S, Edwardsson S, Birkhed D. Determination of salivary *Streptococcus mutans* level in a stable sucrose-sulphasomidine-containing broth. *Caries Res* 1985, 19: 320-326.
4. Kalfas S, Edwardsson S. Agar media that indicate acid production from sorbitol by oral microorganisms. *J Clin Microbiol* 1985, 22: 959-961.
5. Birkhed D, Kalfas S, Svensäter G, Edwardsson S. Sötningsmedel ur karies-synpunkt. *Vår Föda* 1985, 37: 452-459.
6. Kalfas S, Birkhed D. Effect of aerobic and anaerobic atmosphere on acid production from sorbitol in suspensions of dental plaque and oral streptococci. *Caries Res* 1986, 20: 237-243.
7. Kalfas S. Comparison of different methods for detection of urease activity in oral *Actinomyces* species. *Oral Microbiol Immunol* 1987, 2: 190-192.
8. Birkhed D, Svensater G, Kalfas S, Edwardsson S. The risk of adaptation of the oral microflora to sorbitol. *Dtsch Zahnärztl Z (Suppl. 1)* 1987, 42: S141-144.
9. Holm A, Rabe P, Kalfas S, Edwardsson S. Improved selective culture media for *Actinobacillus actinomycetemcomitans* and *Haemophilus aphrophilus*. *J Clin Microbiol* 1987, 25: 1985-1988.
10. Holm A, Kalfas S, Holm SE. In vivo chemotaxis evoked by *Actinobacillus actinomycetem-comitans* and *Haemophilus aphrophilus*. *Oral Microbiol Immunol* 1989, 4: 30-34.
11. Svensäter G, Kalfas S, Edwardsson S. Sorbitolmetabolismen i dental plack - biokemiska och bakteriologiska studier av kariesrelaterade faktorer. I: Klinge B, Nilner K. Tandvårdshögskolan i Malmö - Historik, aktuell forskning & utveckling. Stiftelsen Odontologiska Studentkåren för odontologisk fortbildning, Malmö 1990; 165-169.
12. Kalfas S, Svensater G, Birkhed D, Edwardsson S. Sorbitol adaptation of dental plaque in people with low and normal salivary-secretion rates. *J Dent Res* 1990, 69: 442-446.
13. Kalfas S, Edwardsson S. Identification procedures for oral *Actinomyces* species. *Oral Microbiol Immunol* 1990, 5: 39-42.
14. Kalfas S, Edwardsson S. Sorbitol-fermenting predominant cultivable flora of human dental plaque in relation to sorbitol adaptation and salivary secretion rate. *Oral Microbiol Immunol* 1990, 5: 33-38.
15. Kalfas S, Maki Y, Birkhed D, Edwardsson S. Effect of pH on acid production from sorbitol in washed cell suspensions of oral bacteria. *Caries Res* 1990, 24: 107-112.
16. Kalfas S, Edwardsson S. Effect of culture medium on acid production from sorbitol by oral bacteria. *Acta Odontol Scand* 1990, 48: 217-222.
17. Naidu SS, Erdei J, Czirok E, Kalfas S, Gado I, Thoren A, Forsgren A, Naidu AS. Specific binding of lactoferrin to *Escherichia coli* isolated from human intestinal infections. *APMIS* 1991, 99: 1142-1150.
18. Kalfas S, Andersson M, Edwardsson S, Forsgren A, Naidu AS. Human lactoferrin binding to *Porphyromonas gingivalis*, *Prevotella intermedia* and *Prevotella melaninogenica*. *Oral Microbiol Immunol* 1991, 6: 350-355.

19. Naidu AS, Forsgren A, Kalfas S, Watts JL, Fournier JM. Comparison between lactoferrin and subepithelial matrix protein binding in *Staphylococcus aureus* associated with bovine mastitis. *J Dairy Sci* 1991, 74: 3353-3359.
20. Holm A, Kalfas S. Cell surface hydrophobicity and electrokinetic potential of *Actinobacillus actinomycetemcomitans* and *Haemophilus aphrophilus*. *Oral Microbiol Immunol* 1991, 6: 236-240.
21. Kalfas S, Rundegren J. Biological qualities of saliva sterilized by filtration or ethylene oxide treatment. *Oral Microbiol Immunol* 1991, 6: 182-186.
22. Kishore AR, Erdei J, Kalfas S, Forsgren A, Naidu AS. Detection of bacterial interaction with lactoferrin by an enzyme-linked ligand binding assay (ELBA). *J Med Microbiol* 1992, 37: 341-345.
23. Klinge B, Kuvatanasuhati J, Attstrom R, Kalfas S, Edwardsson S. The effect of topical metronidazole therapy on experimentally-induced periodontitis in the beagle dog. *J Clin Periodontol* 1992, 19: 702-707.
24. Kalfas S, Tigyi Z, Wikstrom M, Naidu AS. Laminin binding to *Prevotella intermedia*. *Oral Microbiol Immunol* 1992, 7: 235-239.
25. El-Nadeef M, Kalfas S, Edwardsson S, Ericson D. Influence of transient salivary flora on assessment of mutans streptococci level by the "Strip mutans" method. *Scand J Dent Res* 1992, 100: 149-153.
26. Svensater G, Edwardsson S, Kalfas S. Purification and properties of sorbitol-6-phosphate dehydrogenase from oral streptococci. *Oral Microbiol Immunol* 1992, 7: 148-154.
27. Holm A, Kalfas S. Polymorphonuclear leukocyte chemiluminescence induced by *Actinobacillus actinomycetemcomitans* and *Haemophilus aphrophilus* in serum and saliva. *Scand J Dent Res* 1993, 101: 350-356.
28. Holm A, Kalfas S, Holm SE. Killing of *Actinobacillus actinomycetemcomitans* and *Haemophilus aphrophilus* by human polymorphonuclear leukocytes in serum and saliva. *Oral Microbiol Immunol* 1993, 8: 134-140.
29. Vassilakos N, Rundegren J, Kalfas S, Arnebrant T. A simple flow cell system to evaluate in vitro bacterial adhesion on solids. *Colloids and Surfaces B: Biointerfaces* 1993, 1: 341-347.
30. Kalfas S, Takahashi N, Yamada T. Initial catabolism of sorbitol in *Actinomyces naeslundii* and *Actinomyces viscosus*. *Oral Microbiol Immunol* 1994, 9: 372-375.
31. Takahashi N, Kalfas S, Yamada T. The role of the succinate pathway in sorbitol fermentation by oral *Actinomyces viscosus* and *Actinomyces naeslundii*. *Oral Microbiol Immunol* 1994, 9: 218-223.
32. Alugupalli KR, Kalfas S, Edwardsson S, Forsgren A, Arnold RR, Naidu AS. Effect of lactoferrin on interaction of *Prevotella intermedia* with plasma and subepithelial matrix proteins. *Oral Microbiol Immunol* 1994, 9: 174-179.
33. Takahashi N, Kalfas S, Yamada T. Effect of acetate on sorbitol fermentation by oral lactobacilli. *Oral Microbiol Immunol* 1995, 10: 349-354.
34. Takahashi N, Kalfas S, Yamada T. Phosphorylating enzymes involved in glucose fermentation of *Actinomyces naeslundii*. *J Bacteriol* 1995, 177: 5806-5811.
35. Alugupalli KR, Kalfas S. Inhibitory effect of lactoferrin on the adhesion of *Actinobacillus actinomycetemcomitans* and *Prevotella intermedia* to fibroblasts and epithelial cells. *APMIS* 1995, 103: 154-160.
36. Alugupalli KR, Kalfas S, Edwardsson S, Naidu AS. Lactoferrin interaction with *Actinobacillus actinomycetemcomitans*. *Oral Microbiol Immunol* 1995, 10: 35-41.
37. Alugupalli KR, Kalfas S. Degradation of lactoferrin by periodontitis-associated bacteria. *FEMS Microbiol Lett* 1996, 145: 209-214.

38. Alugupalli KR, Kalfas S, Forsgren A. Laminin binding to a heat-modifiable outer membrane protein of *Actinobacillus actinomycetemcomitans*. *Oral Microbiol Immunol* 1996, 11: 326-331.
39. Alugupalli KR, Kalfas S. Characterization of the lactoferrin-dependent inhibition of the adhesion of *Actinobacillus actinomycetemcomitans*, *Prevotella intermedia* and *Prevotella nigrescens* to fibroblasts and to a reconstituted basement membrane. *APMIS* 1997, 105: 680-688.
40. Kalfas S. Bakterielles keimspektrum in supra- und subgingivalen zahnbelägen. *Dental Forum* 1997, 7: 10-15.
41. van Dijken JW, Kalfas S, Litra V, Oliveby A. Fluoride and mutans streptococci levels in plaque on aged restorations of resin-modified glass ionomer cement, compomer and resin composite. *Caries Res* 1997, 31: 379-383.
42. Κάλφας Σ, Τοπίτσογλου Β. Ο ρόλος της μαστίχας Χίου στη στοματική υγιεινή. Δημοσιεύθηκε στο δίγλωσσο βιβλίο (ελληνικό και αγγλικό μέρος): «Η μαστίχα της Χίου. Παράδοση και Σύγχρονες Πρακτικές», Χίος 3-5 Οκτωβρίου 1997. Εκδόσεις Υπ. Αιγαίου 1997: σελ. 81-88 (ελληνικά), 329-335 (αγγλικά)
43. Hallberg K, Holm C, Hammarstrom KJ, Kalfas S, Stromberg N. Ribotype diversity of *Actinomyces* with similar intraoral tropism but different types of N-acetyl-beta-D-galactosamine binding specificity. *Oral Microbiol Immunol* 1998, 13: 188-192.
44. Johansson A, Kalfas S. Characterization of the proteinase-dependent cytotoxicity of *Porphyromonas gingivalis*. *Eur J Oral Sci* 1998, 106: 863-871.
45. Sato T, Sato M, Matsuyama J, Kalfas S, Sundqvist G, Hoshino E. Restriction fragment-length polymorphism analysis of 16S rDNA from oral asaccharolytic *Eubacterium* species amplified by polymerase chain reaction. *Oral Microbiol Immunol* 1998, 13: 23-29. (Erratum in: *Oral Microbiol Immunol* 1998, 13: 193).
46. Nakazawa F, Poco SE, Ikeda T, Sato M, Kalfas S, Sundqvist G, Hoshino E. *Cryptobacterium curtum* gen. nov., sp. nov., a new genus of gram-positive anaerobic rod isolated from human oral cavities. *Int J Syst Bacteriol* 1999, 49: 1193-200. (Erratum in: *Int J Syst Bacteriol* 1999, 49: 1952).
47. Sjöström S, Kalfas S. Tissue necrosis after subgingival irrigation with fluoride solution. *J Clin Periodontol* 1999, 26: 257-260.
48. Sjöström S, Kalfas S. Vävnadstoxisk reaktion vid subgingival spolning med tenn-fluoridlösning. *Tandläkartidningen* 1999, 91: 41-44.
49. Lai XH, Arencibia I, Johansson A, Wai SN, Oscarsson J, Kalfas S, Sundqvist KG, Mizunoe Y, Sjostedt A, Uhlin BE. Cytocidal and apoptotic effects of the ClyA protein from *Escherichia coli* on primary and cultured monocytes and macrophages. *Infect Immun* 2000, 68: 4363-4367.
50. Johansson A, Sandstrom G, Claesson R, Hanstrom L, Kalfas S. Anaerobic neutrophil-dependent killing of *Actinobacillus actinomycetemcomitans* in relation to the bacterial leukotoxicity. *Eur J Oral Sci* 2000, 108: 136-146.
51. Nakazawa F, Sato M, Poco SE, Hashimura T, Ikeda T, Kalfas S, Sundqvist G, Hoshino E. Description of *Mogibacterium pumilum* gen. nov., sp. nov. and *Mogibacterium vescum* gen. nov., sp. nov., and reclassification of *Eubacterium timidum* (Holdeman et al. 1980) as *Mogibacterium timidum* gen. nov., comb. nov. *Int J Syst Evol Microbiol* 2000, 50: 679-688.
52. Johansson A, Hanstrom L, Kalfas S. Inhibition of *Actinobacillus actinomycetemcomitans* leukotoxicity by bacteria from the subgingival flora. *Oral Microbiol Immunol* 2000, 15: 218-225.
53. Collins MD, Hoyles L, Kalfas S, Sundquist G, Monsen T, Nikolaitchouk N, Falsen E. Characterization of *Actinomyces* isolates from infected root canals of teeth: description of *Actinomyces radicidentis* sp. nov. *J Clin Microbiol* 2000, 38: 3399-3403.

54. Johansson A, Claesson R, Hanstrom L, Sandstrom G, Kalfas S. Polymorphonuclear leukocyte degranulation induced by leukotoxin from *Actinobacillus actinomycetemcomitans*. *J Periodontal Res* 2000, 35: 85-92.
55. Johansson A, Claesson R, Belibasakis G, Makoveichuk E, Hanstrom L, Olivecrona G, Sandstrom G, Kalfas S. Protease inhibitors, the responsible components for the serum-dependent enhancement of *Actinobacillus actinomycetemcomitans* leukotoxicity. *Eur J Oral Sci* 2001, 109: 335-341.
56. Berg CH, Kalfas S, Malmsten M, Arnebrant T. Proteolytic degradation of oral biofilms in vitro and in vivo: potential of proteases originating from *Euphausia superba* for plaque control. *Eur J Oral Sci* 2001, 109: 316-324.
57. Kalfas S, Figdor D, Sundqvist G. A new bacterial species associated with failed endodontic treatment: identification and description of *Actinomyces radicidentis*. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2001, 92: 208-214.
58. Belibasakis G, Johansson A, Wang Y, Claesson R, Chen C, Asikainen S, Kalfas S. Inhibited proliferation of human periodontal ligament cells and gingival fibroblasts by *Actinobacillus actinomycetemcomitans*: involvement of the cytolethal distending toxin. *Eur J Oral Sci* 2002, 110: 366-373.
59. Johansson A, Claesson R, Belibasakis G, Makoveichuk E, Hanstrom L, Olivecrona G, Kalfas S. Lack of lipoprotein-dependent effects on the cytotoxic interactions of *Actinobacillus actinomycetemcomitans* leukotoxin with human neutrophils. *APMIS* 2002, 110: 857-862.
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61. Nakazawa F, Poco SE Jr, Sato M, Ikeda T, Kalfas S, Sundqvist G, Hoshino E. Taxonomic characterization of *Mogibacterium diversum* sp. nov. and *Mogibacterium neglectum* sp. nov., isolated from human oral cavities. *Int J Syst Evol Microbiol* 2002, 52: 115-122.
62. Τοπίσογλου Β, Γιαζκουλίδου Π, Μαρινάκης Ι, Κάλφας Σ. Τερηδονόγραμμα: Αρχές – εκτιμήσεις – εφαρμογές. *Παιδοδοντία* 2003, 17: 176-183.
63. Kelk P, Johansson A, Claesson R, Hanstrom L, Kalfas S. Caspase 1 involvement in human monocyte lysis induced by *Actinobacillus actinomycetemcomitans* leukotoxin. *Infect Immun* 2003, 71: 4448-4455.
64. Johansson A, Claesson R, Hanstrom L, Kalfas S. Serum-mediated release of leukotoxin from the cell surface of the periodontal pathogen *Actinobacillus actinomycetemcomitans*. *Eur J Oral Sci* 2003, 111: 209-215.
65. Stecksen-Blicks C, Holgerson PL, Olsson M, Bylund B, Sjostrom I, Skold-Larsson K, Kalfas S, Twetman S. Effect of xylitol on mutans streptococci and lactic acid formation in saliva and plaque from adolescents and young adults with fixed orthodontic appliances. *Eur J Oral Sci* 2004, 112: 244-248.
66. Arapostathis K, Arhakis A, Kalfas S. A modified technique on the reattachment of permanent tooth fragments following dental trauma. Case report. *J Clin Pediatr Dent* 2005, 30: 29-34.
67. Kaklamanos EG, Charalampidou M, Menexes G, Topitsoglou V, Kalfas S. Transient oral microflora in Greeks attending day centres for the elderly and residents in homes for the elderly. *Gerodontology* 2005, 22: 158-167.
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70. Παλαγγιάς Γ, Τοπίτσογλου Β, Κάλφας Σ. Νόσος τερηδόνα - Σύγχρονος κλινικός οδηγός. Ελλην Στοματολ Χρον 2005, 49: 367-402.
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75. Κακλαμάνος ΕΓ, Κάλφας Σ. Η συνταγογράφηση αντισηπτικών στοματικών διαλυμάτων στην οδοντιατρική πράξη. Ελλην Στοματολ Χρον 2006, 50: 315-321.
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78. Κάλφας Σ. Η μαστίχα της Χίου με υποκατάστατα της ζάχαρης και το οικοσύστημα του στόματος. Πρακτικά Συνεδρίου "Η Μαστίχα της Χίου". Ελληνική Εταιρεία Εθνοφαρμακολογίας, Χίος 2006, σελ. 25-42.
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