

MIRIAM GRUSHKA MSC, DDS, PHD

Certified Specialist in Oral Medicine (Ontario and British Columbia)
Practice limited to oral medicine and orofacial pain
Adjunct Visiting Lecturer, Tufts University, Department of Oral Medicine

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CURRICULUM VITAE

DEGREES:

Ph.D.	Faculty of Dentistry, University of Toronto <u>Program:</u> Diagnosis and treatment of orofacial pain and lesions through clinical training and research.
D.D.S.	With Honours, Faculty of Dentistry, University of Toronto
M.Sc.	Department of Physiology, McGill University <u>Thesis Title:</u> Insights into Burning Mouth Syndrome
M.Ed	Ontario Institute for Studies of Education, Department of Applied Psychology, Program: Counseling Psychology <u>Focus:</u> Approaches to Counseling Patients with Chronic Pain
B.Sc. Honours	Department of Physiology, McGill University

ADVANCED TRAINING:

Post-Doctoral Position (1985-1987), Department of Oral Biology, University of Toronto

CERTIFICATION/ BOARDS:

Specialist in Oral Medicine (Ontario, Canada), 2010
Certified Specialist, Oral Medicine (British Columbia, Canada), 1997
Diplomate, American Board of Orofacial Pain, 1997
Diplomate, American Board of Oral Medicine, 1986

REGISTERED/LICENSED TO PRACTISE:

Ontario and British Columbia, Canada
State of Ohio, USA

PROFESSIONAL EXPERIENCE AND APPOINTMENTS:

- **Oral Medicine:** Private practice with emphasis on orofacial pain, oral mucosal disease, disorders of taste, temporomandibular disorders, headache, dry mouth and burning mouth including Burning Mouth Syndrome.
- **Associate in Dentistry:** University of Toronto, Faculty of Dentistry
- **Active Staff:** Department of Dentistry, William Osler Health Centre, Etobicoke Division

- **Courtesy staff**, Hamilton General Hospital, Department of Dentistry
- **Previously**, Active staff, Toronto General Hospital, Vancouver General Hospital.

Related Previous Experience:

- **Hospital Dentistry:** For medically compromised patients at Etobicoke General Hospital and University Hospitals of Cleveland, Ohio in the multi-disciplinary Pain Program (Dr. Tom Chelimsky, Co-Director) and in the Headache Clinic (Dr. Tarvaz Tucker, Director)
- **Teaching:** University of Illinois in Chicago, Department of Oral Diagnostic Sciences; School of Dentistry, Case Western Reserve University, Department of Oral Diagnosis and Radiology; part-time: Faculty of Dentistry, University of Toronto, Oral Diagnosis and Prosthodontics Department, Seneca College, Dental Assisting and Hygiene Program; Hamilton General Hospital, Dental Internship Program; Weston Collegiate Institute, Dental Assisting program
- **Research:** at M.Sc., Ph.D. and post-Doctoral levels initiated and carried out studies on clinical orofacial pain. Current research interests include therapeutics in Burning Mouth Syndrome and investigation of caries development in the Dry Mouth and Sjogren's Syndrome patient. Research at Yale University School of Medicine, Department of Otolaryngology
- **Administration:** Successful conception, initiation and administration of an Oral Medicine practice/clinic at Etobicoke General Hospital increasing from 2-3 patients per week to a capacity 12-17 patients per day.
- Supervision of 12 member dental staff at Etobicoke General Hospital as Chief of Dentistry, 1990 with recruitment and supervision of 23 staff by December. Responsible for overseeing of departmental renovation and initiation of new Quality Assurance protocols.
- Current supervision of six person staff

APPOINTMENTS:

<u>Active Staff</u> , Etobicoke General Hospital (William Osler Health Centre, Etobicoke Campus)	1982- present
<u>Associate Professor</u> , University of Illinois and Director of Women's Health Studies College of Dentistry, Chicago, Illinois	2003- 2004
<u>Staff Dentist, Oral Medicine</u> , Vancouver General Hospital, Vancouver, British Columbia	2000- 2004
<u>Clinical Instructor</u> , Yale University Medical School, Section of Otolaryngology, New Haven, Connecticut	2000- 2006
<u>Assistant Clinical Professor</u> , Department of Diagnostic Sciences, School of Dental Medicine, State University of New York at Buffalo	2000- 2003
<u>Courtesy Staff</u> , William Osler Health Centre, Brampton Campus	1999- present

Active/ Full Staff, University Hospitals of Cleveland, Cleveland, Ohio

Associate Professor, Dept. of Oral Diagnosis and Radiology, Case Western Reserve School of Dentistry 1998- 2000

Discipline and Complaints committees, RCDSO 1994- 1995

Staff, York Board of Education, Weston Collegiate Institute, Dental Assisting Program 1991- 1994

Chief, Department of Dentistry, Etobicoke General Hospital 1990-1992

Courtesy Staff, Hamilton General Hospital 1988- present

Director 'Mouth' Clinic, Department of Dentistry Etobicoke General Hospital 1986-1993

Associate in Dentistry, TMJ Clinic, Department of Prosthodontics, University of Toronto 1986-1988

Research Fellow, Mouth Clinic, Department of Dentistry Toronto General Hospital 1981-1983

Associate in Dentistry, Department of Oral Medicine and Pathology, University of Toronto 1979- 1998

Adjunct Visiting Lecturer, Department of Oral Medicine Tufts University 2018-present

COMMITTEES:

Medical Advisory Board, Canadian Sjogren's Society 2005-present

Executive Committee, American Academy of Oral Medicine 2006-2008

Editorial Staff, Oral Diseases 2005-2008

American Academy of Orofacial Pain
Executive Steering Committee 2001- 2005

Editorial Sub-Committee, Journal of Prosthetic Dentistry 2001- 2002

Examination Council, American Board of Orofacial Pain 1998-2002

Education Committee, Case Western School of Dentistry 1998-2000

<u>Editorial Sub-Committee, Pain Research and Management, The Journal of the Canadian Pain Society</u>	1996-2005
<u>West Toronto Dental Society, Executive Committee</u>	1995- 1998
<u>Royal College of Dental Surgeons (RCDSO) Discipline Committee</u>	1994-1995
<u>Medical Advisory Committee, Etobicoke General Hospital</u>	1990-1992
<u>Scientific Committee, American Academy of Oral Medicine</u>	1989-1994
<u>Medical Education and Research Committee, Etobicoke General Hospital</u>	1986-1989
<u>Editorial Sub-Committee, Oral Surgery, Oral Medicine, Oral Pathology</u> (Guest Reviewer, 2005-2006)	1986-1996; 2001- 2004

PROFESSIONAL ASSOCIATIONS (current):

American Academy of Oral Medicine (AAOM)
 American Academy of Orofacial Pain (AAOP)
 International Association for the Study of Pain (IASP)
 International Association for Dental Research (IADR)

TEXTBOOK CHAPTERS:

1. Truelove, E., Epstein, J., Shubert, M. and Grushka, M., 1988. Pain and Behaviour: Review of the Literature. In: 1988 World Workshop on Oral Medicine. Millard, H.D. and Mason, D.K. Eds. Year Book, 220-271.
2. Grushka, M. and Sessle, B.J, 1991. Burning Mouth Syndrome. In: Getchell, T.V. Doty, R.L., Bartoschuk, L.M., Snow Jr., J.B. (Eds.), Smell and Taste in Health and Disease, Raven Press, New York, 665-682.
3. Grushka M. 1994. Glossodynia and Sore Mouth. In: Classification of Chronic Pain: Descriptions of Chronic Pain Syndromes and definitions of pain terms. In: Merskey H. and Bogduk, N. (Eds), IASP Press, Seattle, 74-75.
4. Grushka, M., and Epstein, J., 1996. Burning Mouth Syndrome, In: Taste and Smell Disorders, Seiden, A (Ed), Thieme Pub., New York, 159-171.
5. Grushka M. and Epstein, J. 2000. Burning Mouth Syndrome: Review of the Literature. In: 1998 Third World Workshop on Oral Medicine, Millard HD and Mason D (Eds). University of Michigan Press, 2000, pp. 202-213.
6. Grushka, M. Epstein, J and Kawalec, J. 2000, Evolving Concepts of Burning Mouth Syndrome, Textbook of Oral Medicine, Silverman SI, Eversole LR and Truelove EL (Eds), BC Decker Inc, Hamilton, 2001, pp 354- 358.

7. Grushka, M, Ching V and Epstein JB. Differential diagnosis and management of Burning Mouth Syndrome (BMS), in: Gastroenterology and Hepatology: the Modern Clinician's Guide. Weinstein WM, Hawkey, CJ and Bosch J, Eds. Elsevier, London, Oxford, 2004
8. Grushka M and Ching V. 2005. Diagnosis and Management of Burning Mouth Pain. Clinicians Guide, American Academy of Oral Medicine
9. Grushka M and Ching V. "Diagnosis and Management of Burning Mouth Pain." Clinicians Guide, American Academy of Oral Medicine 2005.
10. Grushka, M and Ching, V. 2006. Taste and Smell in BMS. In: Smell and Taste: Dysfunction and Therapy. (Advances in Otorhinolaryngology - Karger press, Basel, Switzerland. Editors: Antje Welge-Lussen, M.D. and Thomas Hummel, M.D.
11. Grushka M, Ching V, Epstein J, Welge-Luessen J and Hummel T: Burning Mouth Syndrome and qualitative taste and smell disorders in: Hummel and Welge (Editors), Thieme Press, 2013.
12. Grushka M., Su N. (2017) Burning Mouth Syndrome. In: Ferreira J., Friction J., Rhodus N. (eds) Orofacial Disorders. Springer, Cham . 2017 pp 223-232
13. Fortuna G., Napenas J., Su N., Gruskha M., Klasser G.D. (2018) Oral Dysesthesia. In: Farah C., Balasubramaniam R., McCullough M. (eds) Contemporary Oral Medicine. Springer, Cham. 2018, pp1-25

PUBLICATIONS:

1. Grushka, M. and Lapp, W.S. 1971. Influence of syngeneic thymus and bone marrow transplants on the intensity of the graft-versus- host reaction. Eur. J. Immunol. 1: 404-405.
2. Grushka, M. and Lapp, W.S. 1974. Graft-vs-host induced immunosuppression in mice. III. The ability of different lymphoid tissues to alter the intensity of an existing graft-versus-host reaction. Transplantation 17: 157-163.
3. Grushka M. 1975. On the adherence of Actinomyces naeslundii to enamel powder. The University of Toronto Undergrad. Dent. J. 10:1-12.
4. Grushka, M. and Grad, H 1982. Analgesic trends- an update. Ont. Dent. 59:24-28.
5. Grushka, M. 1983. Immunologic aspects of "Burning Mouths. JAMA 250:2110.
6. Grushka, M, 1983. Burning Mouth: A review and update. Ont. Dent. 60:56-61.
7. Grushka, M.. And Sessle, B.J., 1984. Applicability of the McGill Pain Questionnaire to the differentiation of toothache pain. Pain 19: 49-57.
8. Grad, H., Grushka, M and Yanover, L, 1985. Drug-induced xerostomia. J. Can. Dent. Assoc. 51:296-300.
9. Grad,H. and Grushka, M.1986. dental Pain-Treatment by non-prescription drugs. On. Cont. Prac. 13:16-21.
10. Grad,H., and Grushka, M.,1987. Dental Pain- Treatment by non-prescription drugs. Oral Health 2: 25-28.
11. Grushka, M., 1987. Clinical features of Burning Mouth Syndrome. Oral Surg. Oral Med Oral Path., 63:30-36.
12. Grushka, M., Sessle, B.J. and Miller, R. 1987, Pain and personality profiles in Burning Mouth Syndrome. Pain 28: 155-167.
13. Grushka, M., Sessle, B.J. and Howley, T. P. 1987, Psychophysical assessment of tactile, pain and thermal sensory functions in Burning Mouth Syndrome. Pain, 28: 169-184.
14. Grushka, M., Sessle, B. J. and Howley, T.P. 1987. Taste Dysfunction in Burning Mouth Syndrome. Chem. Sens. 11:485-498.
15. Grushka, M. and Sessle, B.J. 1987. Burning Mouth Syndrome- a historical review. J. Clin Pain, 2: 245-252.
16. Grushka, M., Sessle, B.J. and Howley, T. P., 1987, Taste dysfunction in Burning Mouth Syndrome (BMS). Annals, New York Academy of Sciences, 510: 321-324.

17. Grushka, M., 1987. Burning Mouth Syndrome remains difficult to treat. *Ont. Dent.* 64: 26-30
18. Locker, D. and Grushka, M. 1987. The prevalence of oral and facial pain and discomfort: Preliminary results of a mail survey. *Comm. Dent. Oral Epid.* 15:169-172
19. Locker, D. and Grushka, M., 1987. The impact of oral and facial pain. *J. Dent. Res.* 66:1414-1417; *Oral Health*, reprinted: 78: 67-70.
20. Locker, D. and Grushka, M., 1988. Response trends and non-response bias in a survey of oral and facial pain. *J. Pub. Health Dent.*: 48:20-25
21. Grushka, M. and Sessle, B.J., 1988. Taste impairment in Burning Mouth Syndrome. *J. Gerodont.* 4: 256-258.
22. Grushka, M. and Sessle B.J., 1991. Burning Mouth Syndrome. *Dent. Clin. North Am.* 35:171-184
23. Mott A.E., Grushka, M. and Sessle B.J. 1993. Diagnosis and Management of Taste Disorders and Burning Mouth Syndrome. *Dent. Clin. North Am.* 37: 33-71.
24. Ship, J., Grushka, M., Lipton, J.A. Mott, A.E., Sessle, B.J., Dionne, R.A., 1995. Burning Mouth Syndrome: An update. *JADA* 126: 843-853
25. Epstein J and Grushka, M., 1996. Recognition of medically necessary oral health care. *J. Can. Dent. Assoc.* 62: 15-16
26. Grushka M. and Epstein J., 1997. Topical Clonidine for orofacial pain: A pilot study. *Journal of Orofacial Pain*, 11: 346-352
27. Grushka M, and Epstein, J., 1998. An Open label dose escalation pilot study of the effect of Clonazepam in Burning Mouth Syndrome, *Oral Surg Oral Med Oral Pathol Radiol Endod.* 86:557-561.
28. Grushka, M, Kawalec, J and Epstein, J. 2000. Evolving Concepts of Burning Mouth Syndrome, *Oral and Maxillofacial Clinics of North America* 2: 287-295.
29. Grushka, M and Bartoshuk, L, 2000. Burning Mouth Syndrome and Oral Dysesthesias: Taste injury is a piece of the puzzle. *The Can J Diagnosis* 17: 99-109
30. Grushka, M, Epstein JB and Gorsky, M. Differential Diagnosis of Burning Mouth Syndrome 2002 *Dermatology Therapy*, 15: 287-291
31. Grushka, M, Epstein, JB, and Gorsky M, Burning Mouth Syndrome, *American Family Physician*, 2002, 65: 615-620
32. Grushka, M, Epstein, JB, and Gorsky, M. Burning Mouth Syndrome and other sensory disorders: A unifying hypothesis, *Pain Res Manage.* 2003:8:133-5.
33. Grushka M and Epstein JB. Treatment of Burning Mouth. 2004: *J. Can Dent Assoc.*
34. Grushka, M, Ching, V, Epstein JB, Gorsky M. "Preliminary explanation of Burning Mouth and Burning Feet: Is there a common etiology? *Pain Res Manag.* 2005, 10(3): 166
35. Bartoshuk LM, Snyder DJ, Grushka McKean, Berger AM, Duffy VB, Kveton JF: Taste damage: previously unsuspected consequences. *Chem Senses* 2005, Jan 30 Suppl 1218
36. Epstein JB, Grushka, M, Sherlock C, Epstein MS and Gorsky M. Burning Mouth: an initial examination of the potential role of herpes virus infection. *Oral Med Path* 2006 11: 45-48.
37. Grushka M, Ching V, Epstein J: Burning mouth syndrome. *Adv Otorhinolaryngol* 2006: 63: 278-87
38. Grushka M, Ching V, Epstein JB. "Radiographic and Clinical Features of TMD in Patients Following MVA: Retrospective Study." *Oral Med Oral Surg Oral Path Radiol Endod Oral Surgery Oral Med Oral Pathol* 2007: 104: 772-80
39. Hardin D, Ching V, Polak S, Hocolik, R, Grushka M. Dental products available for dry mouth. *Ontario Dentist*, December, 2008.
40. Hardin D, Ching V, Polak S, Hocolik, R, Grushka M. Decay Prevention in Patients with dry mouth and Sjogren's Syndrome. *Ontario Dentist*, September, 2008.

41. Lomaga M, Polak S, Grushka M, Walsh S. Results of Patch testing in patients with oral lichen planus. *J of Cutaneous Medicine and Surgery*, 2009; 13(2): 88-95.
42. Grushka M, Ching V. Jaw pain for the GP. *Parkhurst Exchange*. 2009 June: 36-37.
43. Su, N, Marek, C, Ching V, Grushka M: Caries prevention for patients with dry mouth. *J Can Dent Assoc*, 2011; 77:b85
44. Hechmann SM, Kirchner E, Grushka M, Wichmann MG, and Hummel T. A double blind study on clonazepam in patients with Burning Mouth Syndrome *Laryngoscope*, 2012; 122(4): 813-816
45. Ching V, Grushka M, Darling M, Su N. Increased prevalence of geographic tongue in burning mouth complaints: a retrospective study. *Oral Surg Oral Med Oral Pathol Oral Radiol*, 2012; 114(4): 444-448
46. Su N, Ching V, Grushka M. Taste Disorders: a review *J Can Dent Assoc* 2013;79:d86
47. Lynde CB, Grushka M, Walsh SR,. Burning Mouth Syndrome: Patch Test Results from a Large Case Series, *Journal of Cutaneous Medicine & Surgery*, *J Cutan Med Surg*. 2014 18(3) 174- 179
48. Poon R, Su N, Ching V, Darling M, Grushka M. Reduction in unstimulated salivary flow rate in Burning Mouth Syndrome. *Br. Dent J* 2014 217(7) E14 47.
49. Su N, Poon R, Grushka M. Does Sjogren's Syndrome affect odor identification abilities? *Eur Arch Otorhinolaryngol* 2015 272 (3) 773-4
50. Su N, Poon R, Friedman L, Darling M, Grushka M. TMJ Changes in Adolescent TMD Patients Seen on MRI in a Clinical Setting. *New York State Journal (NY State Dental J* 2015 81 (3) 27-30)
51. Sinding C, Greansjoen AM, Schlumberger G, Grushka M, Frasnelli J, Singh PB. Grey matter changes of the pain matrix in patients with Burning Mouth Syndrome *Eur J Neurosci*.2016 Apr;43(8):997-1005
52. Klasser G, Su N, Grushka M: Burning Mouth Syndrome. *Oral and Maxillofacial Surgery Clinics of North America*, 2016. 28(3):381-396
53. Wang T, Glendinning J, Grushka M, Hummel T, Mansfield K. Drug-Induced Taste Disorders in Clinical Practice and Preclinical safety Evaluation. *Toxicol Sci*. 2017 Jan 23. pii: kfw263. doi: 10.1093/toxsci/kfw263. [Epub ahead of print]
54. Darling M, Su N, Masen S, Grushka M. Geographic Tongue: assessment of Peripheral Nerve Status, Langerhans cell and HLA-DR Expression. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*. June 2017.124(4)
55. Su N, Dewan C, Poon R, Liu C, Darling M, Grushka M. Taste and Pain Response in Burning Mouth Syndrome with and without Geographic Tongue. *Journal of Oral and Facial Pain and Headache*. 2020. Accepted for publication
56. Su N, Dewan C, Poon R, Liu C, Darling M, Grushka M. Pain Reduction in Burning Mouth Syndrome (BMS) May Be Associated with Selective Improvement of Taste: Retrospective Study. *OOOO*, 2020. Accepted for publication
57. Friedman, SN, Grushka M, Beituni H, Rehman M, Bressler H. Advanced ultrasound screening for temporomandibular joint (TMJ) pain and internal derangement. *Radiology Research and Practice*, 2020. Accepted for publication

ABSTRACTS:

1. Grushka, M. and Lapp W.S. 1971. Effect of syngeneic thymus and marrow transplants on the graft-versus-host reaction. *Proc. Can. Fed. Biol. Sci.* 14: 152.
2. Grushka, M., Goldsmith, L. and Sessle, B.J. 1982. Yet another hot potato: Burning Mouth Syndrome. *Proc. Can. Pain Soc.* P.5.
3. Grushka, M., Goldsmith, I. and Sessle, B.J. 1983. Psychological and sensory neurological testing in Burning Mouth Syndrome. *Clinical Research Society of Toronto* p.8.

4. Grushka, M. and Sessle, B.J. 1983. Applicability of the MPQ to the differentiation of "toothache pain". Proc. Can. Pain Soc. P.5.
5. Grushka, M., Miller, R. and Sessle, B.J. 1984. Burning Mouth Syndrome: psychological and physiological correlates. Clinical Research Society of Toronto, p.10.
6. Grushka, M. and Sessle, B.J. 1984. Burning Mouth Syndrome (BMS): McGill Pain Questionnaire (MPQ), Minnesota Multi-Phasic Personality Inventory (MMPI) and Psychophysical Testing. Pain, Supplement 2: S108.
7. Grushka, M., Caplan, V. and Sessle, B.J. 1984. Nutritional aspects of Burning Mouth Syndrome. J. Can. Diet. Assoc. 45:371.
8. Grushka, M., McGrath, P.A., Sessle, B.J., Howley, T.P. and Brooke, R.I. 1984. Comparison of four orofacial pain syndromes. Proc. Satellite Symposium "Fourth World Pain Congress: p.6.
9. Grushka, M. and Sessle, B.J. 1985. Demographic data and pain profiles of Burning Mouth Syndrome (BMS). J. Dent. Res. 64: 358.
10. Grushka, M., Sessle, B.J. and Howley, T.P. 1985. Somatosensory psychophysical responses of patients with Burning Mouth Syndrome (BMS). Soc. Neurosci. 11.:413.
11. Grushka, M., McGrath, P.A., Sessle, B.J. Howley, T.P. and Brooke, R.I. 1985. Multidimensional assessment of acute and chronic pain patients. Proc. Am Pain Soc. P. 24.
12. Grushka, M., Shupak, R. and Sessle, B.J. 1986. A rheumatological examination of 27 patients with Burning Mouth Syndrome. J. Dent. Res. 26: 533.
13. Grushka, M., Sessle, B.J. and Howley, T.P. 1986. Psychophysical evidence of taste dysfunction in Burning Mouth Syndrome (BMS). Proc. Of the 9th Int. Symp. Olfaction and Taste. S105.
14. Grushka, M., Shupak, R. and Sessle, B.J. 1986. Is Burning Mouth Syndrome an immunologically mediated disorder? Clin. Res. Soc. Toronto, Abs. 88.
15. Grushka, M., 1986. Brain Drain- Diagnosing Face pain, Proc. Acad. Gen. Dentistry.
16. Locker, D., and Grushka, M., 1986. The prevalence of oral and facial pain and discomfort: preliminary results of a mail survey. Int. Assn. Dent. Res. Section meeting.
17. Katz, R.L., Grushka, M. and Sessle, B.J. 1987. A longitudinal study of Burning Mouth Syndrome. Proc. Can. Pain. Soc.
18. Grushka, M., Katz, R.L. and Sessle, B.J. 1986. Spontaneous remission in Burning Mouth Syndrome. J. Dent. Res., 66:274.
19. Locker, D. and Grushka, M., Age and sex differences in the prevalence of oro-facial pain. J. Dent. Res. 66: 346.
20. Grushka, M. and Dichek, D. 1987, Effect of chlorhexidine on taste. Acad. Of Gen. Dentistry.
21. Grushka, M. and Dichek, D. 1988. Constraints in using chlorhexidine in the elderly. Clin. Res. Soc. Toronto.
22. Dichek, D. and Grushka, M. 1988. The effect of chlorhexidine on taste. Proc. Prac. Conf. Can. Soc. Hosp. Pharm.
23. Grushka, M., Grushka, I., and Dichek, D. 1988. Medico-Legal Aspects of TMJ Pain. Proc. Acad. Gen. Dent.
24. Grushka, M. and Mott, A. 1996. Effects of Clonazepam on Burning Mouth Syndrome. Proc. American Pain Soc.
25. Grad H. and Grushka, M. 1998. Development of a Protocol for the treatment of the Dry Mouth. Proc. Ont. Pharm Assoc.
26. Bartoshuk, L, Grushka, M, Duffy, V et al. 1998. Burning Mouth Syndrome: a Pain Phantom in supertasters who suffer taste damage? Proc. Amer Pain Soc.
27. Bartoshuk, L, Grushka, M, Duffy, VB, Fast, K, Luccina, L, Prutkin, J and Synder, D., 1999 Burning Mouth Syndrome: Damage to CN VII and Pain Phantom in CN V. Chemical Senses 24:609
28. Grushka, M and Bartoshuk, L., 2001. Atypical Odontalgia: Evidence for involvement of the chorda tympani. Oral Surg Oral Med Oral Patho Oral Radiol Endod 91: 414 (abstract), 2001.

29. Grushka, M and Truelove, E, 2001: Is Burning Mouth Syndrome really a disorder of taste? American Academy of Oral and Maxillofacial Pathology, 2001, Chicago
30. Ching V. and Grushka, M. 2004 The use of clonazepam, gabapentin and lamotrigine in Burning Mouth Syndrome, Neuropathic Pain Conference, Hamilton, Bermuda
31. Grushka M, Ching V, Epstein J and Gorsky M. 2006 MRI changes in post-whiplash patients. American Academy of Oral Medicine, Phoenix, Arizona
32. Grushka M, Ching V, Epstein J and Gorsky M 2006 Neuropathic pain injury in whiplash patients. Neuropathic Pain Meeting, San Francisco
33. Grushka M, Ching V. 2007 "Geographic Tongue and Burning Mouth." AAOM, San Diego.
34. Grushka, M, Ching V, Polak S and Hardin D. 2008 Incidence of geographic tongue in Burning Mouth Pain, IADR Toronto, Ontario
35. Poon R Kahouli M Ching V and Grushka M 2012. Decreased unstimulated salivary flow in Burning Mouth patients, AADR, Florida
36. Su N, Ching V, Poon R. Friedman L, Darling M, Grushka M. 2013. Comparison of temporomandibular joint changes seen on MRI between adolescent and adult TMD patients, IADR/AAOM, Seattle, Washington
37. Su N, Mo K, Darling M and Grushka M. 2015: Smell loss in Sjogren's syndrome. AChems, Florida, 2015
38. Su N, Poon R, Dewan C, Kao C, Darling M, Miriam M. 2017. Taste Patterns: Taste Phantoms vs. Taste Changes. AAOM, Florida
39. Grushka M. 2017. Taste Disorders in patients: symptoms, diagnosis and management. AChems, Florida,
40. Su, N, Poon R. Darling M, Grushka M 2018. Pain Intensity and Taste in Burning Mouth Syndrome (BMS) in Patients with and without Geographic Tongue. AChems, Florida
41. Su N, Dewan C, Poon R, Liu C, Darling M, Grushka M 2019 Taste Improves with treatment of Burning Mouth Syndroms, Achems, Florida
42. Su N, Dewan C, Poon R, Darling M, Grushka M 2019 Successful treatment of Burning Mouth Syndrome and its effect on taste. ECRO, Trieste, Italy.

INVITED TALKS:

1. Grushka, M. 1985, Insights into Burning Mouth Syndrome, Fac. Dentistry, McGill University
2. Psychological and physiological correlated of Burning Mouth Syndrome. Fac. Dentistry, University of Michigan
3. Grushka, M. 1985. Physiological aspects of Burning Mouth Syndrome and its control. Joint International meeting of Canadian Pain Society and Intractable pain Soc. of Great Britain and England.
4. Grushka, M., 1986. Etiology and treatment of taste disorders. 40th meeting, American Academy of Oral Medicine
5. Grushka M., 1986 Taste dysfunction in Burning Mouth Syndrome. Pierce Foundation, Yale University, New Haven, Connecticut.
6. Grushka, M. 1986. Psychophysical evidence of sensory dysfunction in Burning Mouth Syndrome. National Institute for Dental Research, Bethesda, Maryland.
7. Grushka, M., 1986. Workshop: Oral Dyesthesias. American Pain Society
8. Grushka, M. 1986. Workshop: Diagnosis and management of orofacial Pain. Canadian Pain Society.
9. Grushka, M., 1987, Workshop: Advances in taste for the oral biologist, IADR/AADR
10. Grushka, M. 1987. Diagnosing Burning Mouth, Taste and Smell Center, University of Connecticut.

11. Grushka, M., Dichek, D. and Grad., H. 1988. Mouth Care in the elderly and in Aids patients. Telemedicine, Ontario.
12. Grushka, M. and Dichek, D. 1988. Oral complaints in the elderly and their treatment. Dental Public Health Dept., Etobicoke, Ontario.
14. Grushka, M. 1988. Differential diagnosis of atypical facial pain. Joint Int. Meeting of Canadian Pin Society and American pain Society, Halifax, Nova Scotia.
15. Grushka, M, 1988. Sore mouth, Dry mouth . Ontario Dental Association, 121st Annual Meeting, Toronto, Ontario
16. Grushka, M 1989. Diagnosis and treatment of Burning Mouth Syndrome. Dept. of Oral Medicine, New Jersey Dental School, Newark, New Jersey.
17. Grushka, M., Howard, B., Grushka, I, Gordon H. and Sharav, Y. 1989. Traumatic Injury to the TMJ, Ontario. Dent. Assoc. 122nd Annual Meeting, Toronto, Ont.
18. Grushka, M., 1989. Diagnosis and Treatment of Common Oral Complaints in the Elderly. Royal College of Dental Surgeons Ont., Ottawa.
19. Grad, H and Grushka, M., 1989. Usefulness of Chlorhexidine in patients with AIDS. Academy of General Dentistry, Toronto, 52nd Winter Clinic.
20. Grushka, M, Dichek, D. and Grushka I, 1989. Workshop on Facial Pain. Can Pain Society, Banff, Alberta
21. Grushka, M. and Grad, H., 1990. Treatment modalities for dry mouth. Academy of General Dentistry. 53rd Winter Clinic, Toronto, Ontario.
22. Grushka, M., 1991. Philosophy of Treatment for the TMD patient. Department of Dental Diagnostic Sciences, University of Indiana, Indianapolis. 22. Grushka, M and Grad, 1991. Dry, Sore and Burning Mouth in the elderly. Kitchener-Guelph Hygiene Association, Kitchener.
23. Grushka, M. and Grad, H. 1991. Treatment protocol for the dry mouth patient. Academy of General Dentistry, 54th Winter Clinic.
24. Grushka, M. 1992. Workshop: Pain and Diagnosis. Ont. Dental Assoc., 125th Annual Meeting.
25. Grushka, M 1992. Etiology and Treatment of Dry Mouth, Dept. of Preventive Dentistry, University of Toronto, Toronto, Ontario
26. Grushka, M. 1993. Sore Mouth, Burning Mouth, Dry Mouth. Florida Health Seminars, Boca Raton, Florida
27. Grushka, M., 1993. A practical approach for the general practitioner in the treatment of common oral lesions. Toronto Periodontal Study Club, Toronto.
28. Grushka, M., and Grad, H., 1993. Therapeutic modalities for the treatment of oral Candidacies. Academy of General Dentistry, 57th Winter Clinic, Toronto.
29. Grushka, M., 1994. Diagnosis and treatment of common oral lesions. Academy of General Dentistry, 58th Winter Clinic, Toronto.
30. Grushka, M., Orofacial pain: Burning Mouth Syndrome 1994. FDI, 82nd World Congress, Vancouver.
31. Grushka, M., 1994. Treatment options for common oral lesions. Toronto North Toronto Dental Hygiene Society, North York, Ontario.
32. Grushka, M., Review of Burning Mouth Syndrome and Overview of Research findings, 1995. American Association for Dental Research, San Antonio, Texas.
33. Grushka, M., Burning Mouth Syndrome, 1995. American Dental Association, Las Vegas, Nevada.
34. Grushka, M. Burning Mouth Syndrome, 1995. Academy of Dentistry, 58th Winter Clinic, Toronto, Ontario.
35. Grushka, M., and Grad H. Diagnosis and Management of the Dry Mouth Patient, 1996, Ontario Dental Association, Toronto, Ontario.

36. Grushka, M and Miller, C., Burning Mouth Syndrome, 1996. American Academy of Oral Medicine. San Diego, California.
37. Grushka, M., Disorders of the Temporomandibular Joint, 1996. Florida Health , Boca Raton, Florida.
38. Grushka M., Burning Mouth Syndrome, 1997. American Academy of Orofacial Pain, San Diego, California.
39. Grushka, M and Grad, H., 1997. Care of the Sjogren's Patient. Ontario Dental Association, Toronto, Canada.
40. Grushka, M., 1997. Burning Mouth Syndrome, American Academy of Orofacial Pain, San Diego, California.
43. Grushka, M. 1997. Diagnosis and Treatment of Burning Mouth Syndrome. Toronto Hygiene Society, Toronto, Ontario.
44. Grushka, M. 1998. Diagnosis and Treatment of the Dry Mouth Patient, Toronto Hygiene Society, Toronto, Ontario.
45. Grushka, M. 1998. Otalgia and Temporomandibular Joint Disorders. Telemedicine, Toronto, Ontario.
46. Grushka, M, 1998. Oral dexamethasone mouthrinses and risks of bleeding in susceptible patients: In Corticosteroid Therapy in Oral Medicine Symposium. Proc of 52nd Amer Acad Oral Medicine, San Juan, Puerto Rico.
47. Grushka, M. and Grad, Helen, Protocol for Treatment of the Dry Mouth Patient, Ontario Dental Association, 1998
48. Grushka, M. 1998. Update: Burning Mouth Syndrome, Third World Conference on Oral Medicine, Chicago, Illinois.
49. Grushka, M . 1998: Diagnosis and Treatment of Dry Mouth. Lakeland Community College, Lakeland, Ohio.
50. Grushka. M, 1998: Diagnosis and Treatment of Temporomandibular Disorders for the General Practitioner, University Hospital, Cleveland, Ohio.
51. Grushka, M, 1999. Insights into the Treatment of Sore Mouth and Dry Mouth. Alpha Omega Fraternity, Cleveland, Ohio
52. Grushka, M., 1999. Dry and Burning Mouth. Geriatric Care Center, Cleveland, Ohio.
53. Grushka, M., 1999. Oral Cavity Involvement with Sjogren's Syndrome and Remedies, National Sjogren's Syndrome Foundation, Cleveland, Ohio.
54. Grushka, M, 2000 Evolving Concepts of Burning Mouth Syndrome, National Institutes of Health, Bethesda, Maryland.
55. Grushka, M, 2000 Diagnosis and Treatment of the Sore Burning Mouth: New Jersey Medical and Dental School Alumni Program, New York, New York
58. Grushka, M and Trueleove, E. 2001: Burning Mouth Syndrome and Taste. American Academy of Oral and Maxillofacial Pathology, Chicago, Illinois
59. Grushka, M, Bosy, A and Barzilay, I. 2001 Care of the Dry Mouth patient: Oral Care, Bad Breath and Dental Restorations, Ontario Dental Association., Toronto, Ontario
60. Grushka, M. 2001: New Concepts on the Diagnosis and Management of the Dry Mouth Patient. Dalhousie University, Continuing Education, Halifax, Nova Scotia
61. Grushka, M., 2001: Burning Mouth Syndrome and Atypical Odontalgia: Different Constellations of the same disorder? Ohio State University, School of Dentistry, Columbus, Ohio.
62. Grushka, M and Bosy, A 2001: Dry Mouth and Bad Breath, Dynamic Seminars, Burlington, Ontario
63. Grushka, M 2001: TMD after a motor vehicle accident. Ontario Trial Lawyers Association, Toronto, Canada

64. Grushka, M 2002: Burning Mouth Syndrome and Taste disturbances. Muskoka –Simcoe Dental Society, Huntsville, Ontario
65. Grushka, M, 2002: Taste Disorders and Burning Mouth Syndrome. New York Dental Society, New York, New York
66. Grushka, M, 2003. A new look at Burning Mouth Syndrome and Atypical Odontalgia. Midwest Chicago Dental Meeting, Chicago, Illinois
67. Grushka, M. 2003: A Multi-disciplinary approach to the diagnosis and treatment of temporomandibular joint disorders (TMD) alone or following a motor vehicle accident. Muskoka- Simcoe Dental Society, Huntsville, Ontario
68. Epstein, JB, Grushka, M, Greene, C and Mercuri, L, 2003: Orofacial Pain: Current Concepts and TMD and other conditions. University of Illinois, Chicago, Illinois
69. Grushka, M. 2003. How Burning Mouth Syndrome affects your patients. Chicago Academy of Dentistry, Chicago, Illinois
70. Grushka, M. 2004. A multi-disciplinary approach to the treatment of jaw pain post whiplash injury. Workable Centres, Toronto, Canada
71. Grushka M. 2004. Atypical Odontalgia and Burning Mouth Syndrome. Chicago Dental study group
72. Grushka M. 2004 Etiology and Management of Dry Mouth Patients. University of Illinois School of Medicine, Dermatology Department
73. Grushka, M, Weverman, I and Bosy A 2004. Diagnosis and Management of common oral conditions including burning mouth, atypical odontalgia, dry mouth, bad breath and TMD (part of a six lecture seminar series) Toronto, Ontario
74. Grushka, M: 2005. Diagnosis and Management of Burning Mouth Pain. 2005. American Academy of Oral Medicine, Phoenix
75. Grushka M. 2005. Burning Mouth Pain, Pathway to Diagnosis, Tufts Dental School, Boston
76. Walsh S and Grushka M, 2005. Diagnosis and Management of common oral lesions, Toronto
77. Grushka, M. 2005. Management of Dry mouth in Sjogrens Syndrome, ENT, Hamilton General Hospital
78. Grushka, M. 2006. Update into management of dry mouth, Sjogren's Support Group, Milton, Ontario
79. Grushka, M. 2006. Invited participant to 6th World Workshop of Oral Medicine, San Juan, Puerto Rico
76. Grushka M. 2006. Burning Mouth Pain and its relationship to taste. American Academy of Oral Medicine, San Juan, Puerto Rico
80. Grushka, M. 2006. Evidence based treatment for TMJ Closed Lock. Toronto Acad Dentistry.
81. Grushka, M. 2006. Burning Mouth Syndrome: Where are we now? Association. ADEA, Orlando, Florida
82. Grushka, M. 2006. Dry Mouth, Sensory Changes and Sjogren's. Canadian Sjogren's Society, Hamilton, ON
80. Grushka, M. 2006. Burning Mouth Syndrome. Toronto Dental Hygiene Society, Toronto, Ont
81. Grushka, M. 2007. Assessment and Treatment of the Dry Mouth. Sjogren's Syndrome Society of Canada, Hamilton, Ontario
82. Grushka, M: 2007 Oral Medicine for the Otolaryngologist, Mississauga, Ontario
83. Grushka M: 2008. Common Oral lesions Dermatology Department Sunnybrook Health Science Centre, Toronto
84. Grushka M and Minnett, C 2008 : Diagnosis and Management of neuropathic pain. Academy of General Dentistry, Winter Clinic, Toronto, Ontario
85. Grushka, M. January, 2009. Incidences and Treatment of Dry Mouth. University of Toronto, Faculty of Dentistry. Toronto, ON.
86. Grushka, M. 2009: Diagnosis of TMJ problems. Prosthodontic Associates. Toronto, ON.

87. Grushka, M, 2009: Lesions associated with dry mouth. Study Club of York, Toronto, ON.
88. Grushka, M: 2009. Geographic fissured tongue higher in BMS patients than TMD patients. Smell and Taste Clinic, University of Dresden Medical School, Germany.
89. Grushka, M. 2009: Assessment and treatment of the dry mouth patient. Prosthodontic Associates, Toronto, ON
90. Grushka, M: 2009: Diagnosis and treatment of Burning Mouth Syndrome, Hamilton Periodontic Study Club, Hamilton, ON
91. Grushka, M. 2010 Diagnosis and Management of common oral lesions, Prosthodontics Associates, Toronto, Ontario.
92. Grushka M. 2010 Review of Burning Mouth Syndrome, U of Dresden, School of Medicine, Dresden, Germany.
93. Grushka M. 2010 Burning Mouth Syndrome and Taste: Review of evidence. Human Chemosensory Meeting, Dresden, Germany.
94. Grushka M. 2011. New products available for the treatment of dry mouth. Prosthodontic Associates, Toronto, Canada
95. Grushka M, Su N. 2011 Treatment of taste disorders, Monell Center for Chemical Senses, Philadelphia, Pennsylvania
96. Grushka, M, 2011: Burning and sore mouth: common oral conditions associated with mouth burning and soreness, Otolaryngology Rounds, Hamilton General Hospital, Hamilton, ON
97. Grushka M 2012. Burning mouth syndrome: update on diagnosis and management and its impact on general dentistry, Prosthodontic Associates, Toronto, Ontario.
98. Grushka M, 2013. Taste and smell in Sjogren's syndrome. The Sjogren's Society of Canada, Toronto, Ontario
99. Grushka M. 2013. Oral sensory change, Prosthodontic Associates, Toronto, Ontario
100. Grushka M, 2013 Oral Sensory Phantoms, Metropolitan Oral and Maxillofacial Surgery Centre, Toronto, Ontario
101. Grushka M. 2014. Oral Medicine and Orofacial Pain in general practice. Peterborough Dental Society, Peterborough, Ontario
102. Grushka M. 2014 Taste loss in Sjogren's Syndrome and in Burning Mouth Patients. Taste and Smell Conference, Dresden, Germany
103. Grushka M. 2015 Oral Sensory Phantoms and Burning Mouth Pain. University of Copenhagen, Copenhagen, Denmark
104. Grushka M. 2016 Diagnosis and Management of Taste Disturbances. Society of Toxicology.. New Orleans
105. Grushka M. 2016 Oral Lesions in Pediatrics, Practical Approach. Canadian Pediatric Dermatology Association, Ontario
106. Grushka M. 2016 Oral Lesions and Burning Mouth Pain, Women's College, Dermatology Residents, Ontario
107. Grushka M. 2016 Assessment, Diagnosis, and Management of TMD. Principles of Occlusal Devices. Canadian Military, CFB Borden, Ontario
108. Grushka M. 2017 Taste changes and other Oral Sensory Phantoms. PACE, Ontario.
109. Grushka M. 2017 Orofacial Pain and Dentistry 2017, Ontario Dental Association, Annual Spring Meeting, Ontario
110. Grushka M. 2017 Taste Disorders in Patients: symptoms, diagnosis, and management. AChems, Florida
111. Grushka M. 2017 Diagnosis and Management of TMD, Peterborough Study Club, Ontario.
112. Grushka M. 2018 Why is my tongue sore and why does it hurt and what happened to my taste? Sjogren's Society of Canada National Patient Conference. Mississauga, Ontario
113. Grushka M. 2018 Oral contact sensitivity clinical aspects. ASM18 Toronto ON

114. Grushka M 2018. Oral manifestation of immunologic drugs and treatment. ASM18 Toronto ON
115. Grushka M 2019, Treatment of BMS and Taste, AAOM 2019, New Orleans.

Consultant on NIH grants

University of Florida, Gainesville, Florida 2005, 2009

University of New Jersey Dental and Medical School 2005

University of Minnesota, 2007