

CURRICULUM VITAE

RICHARD OHRBACH

PERSONAL HISTORY

Present Position School of Dental Medicine, University at Buffalo
Associate Professor - Department of Oral Diagnostic Sciences
Co-Director, University Orofacial Pain, Oral and Behavioral Medicine
Director, Orofacial Pain Research Group

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Birth Sanford, North Carolina
September 24, 1952
US Citizenship

ACADEMIC HISTORY

2000 Appointed Associate Professor with Tenure, Department of Oral Diagnostic Sciences, University at Buffalo

1997 Appointed Assistant Professor, Department of Oral Diagnostic Sciences, University at Buffalo

1995 Appointed Research Associate Professor, Department of Oral Diagnostic Sciences, University at Buffalo

1989 Appointed Research Assistant Professor, Department of Behavioral Sciences, University at Buffalo

1988 Appointed Clinical Instructor, Department of Oral Medicine, University at Buffalo

EDUCATION

1996 - 1997 University of Washington
Department of Dental Public Health Sciences, School of Dentistry
Postdoctoral Fellowship in Behavioral Epidemiology

1995 - 1996 University of Washington
Department of Psychiatry & Behavioral Sciences, School of Medicine
Clinical Psychology Internship

1989 - 1995 State University of New York - Buffalo
Department of Psychology, APA approved Clinical Psychology program
Dissertation: "Stress reactivity, adaptation, and response specificity in individuals with chronic muscle pain," defended May, 1995
Ph.D. (May 1996)

1986 - 1989 State University of New York - Buffalo

	Program in Oral Sciences, School of Dental Medicine M.S.
1985 - 1986	University of California - Los Angeles Department of Anesthesiology, School of Medicine Fellow, Pain Management Center, Certificate in Pain Management Division of Gnathology and Occlusion, School of Dentistry Fellow, Temporomandibular Joint and Facial Pain Clinic
1977 - 1981	University of Maryland - Far East Division, Yokota AB, Japan Asian Studies Program
1973 - 1977	University of North Carolina - Chapel Hill School of Dentistry D.D.S.
1970 - 1974	University of North Carolina - Chapel Hill B.S.

MILITARY SERVICE

1985	USAF Commendation Medal
1982 - 1985	Major, USAF Dental Corps Wilford Hall Medical Center, San Antonio, Texas Director, Temporomandibular Joint Clinic
1977 - 1982	Captain, USAF Dental Corps Yokota AB, Japan Staff dentist

AWARDS AND HONORS

2011	Recipient of Visiting Scientist Programme at Malmö University, Sweden
2011	Inducted into Omicron Kappa Upsilon (OKU) National Dental Honor Society
2010	Recipient of Visiting Scientist Programme at Malmö University, Sweden
2009	Recipient of Visiting Scientist Programme at Malmö University, Sweden
2007	Recipient of Visiting Scientist Programme at Malmö University, Sweden
2007	Fellowship, American Academy of Orofacial Pain
2007	Society for Advancement of Dental Research, by UB School of Dental Medicine
2004	Sustained Achievement Award for Scholars, Inventors, and Entrepreneurs
2002 - 2003	Who's Who in Science and Engineering, 6 th edition
2000 - 2001	Who's Who in Science and Engineering, 5 th edition
1996 - 1997	National Research Service Award, NIDR, NIH
1995	International Who's Who in Medicine, 2 nd edition
1994 - 1995	National Research Service Award, NIDR, NIH
1994	Graduate Fellowship, Center for Cognitive Science, University at Buffalo
1992, 1993	Who's Who Among Students in American Universities and Colleges
1989 - 1994	Physician Scientist Award, National Institutes of Dental Research, NIH
1989	Research Fellow, Department of Oral Physiology, Meikai University, Saitama, Japan
1989	American Association for Dental Research Bloc Travel Grant, Dublin, Ireland
1988	Young Investigator Travel Award, American Pain Society
1986 - 1989	National Research Service Award, NIDR, NIH
1985 - 1986	Pain Fellowship, UCLA Pain Management Center

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

1998 - present	New York Academy of Sciences
1990 - 2006	American Psychological Association
1990 - 2004	Institute of Noetic Sciences

1990 - 1997	American Psychological Society
1989 - present	Association of University Teachers of Orofacial Pain Programs
1988 - present	American Pain Society
1987 - present	Neuroscience Group - IADR
1987 - present	American Association for Dental Research
1984 - present	International Association for the Study of Pain

LICENSURE

1998 - Present	New York: Clinical Psychology
1997 - 1998	Washington: Clinical Psychology
1995 - Present	New York: Dentistry
1977 - 1997	North Carolina: Dentistry

PROFESSIONAL and COMMUNITY SERVICE

University Service

- Member, Health Sciences Institutional Review Board, University at Buffalo, 2001 - 2007, 2008 - present
- Member, Health Sciences Library Advisory Committee, 2004 - 2006
- Panel member for Association for the Accreditation of Human Research Programs (AAHRPP) site visit at UB, May 2009
- Member, Dental School Student Research and Honors Committee, 2002 - present

Organizational Service

- President, Association of University Teachers of Orofacial Pain Programs, 2000-2001 (overall three year term of service)
- Symposium Coordinator, AADR, 1997; IADR 2003
- Joint Publications Committee, AADR/IADR, 1993-1996
- Program Committee, Nerve Damage and Neuropathic Trigeminal Pain, Vancouver, BC May 4-5, 2004
- Examination Council member, AAOP, 2005
- Director, International RDC/TMD Consortium, 2003-2007
- Committee Chair, Translations and Proocols, International RDC/TMD Consortium, 2000 - present.

Statistical Consultant

- Journal of Prosthetic Dentistry, 1993 - present

Journal Editor

- Journal of Behavioral Medicine
- Annals of Behavioral Medicine

Ad Hoc Reviewer

- Acta Odontologica Scandinavica, 2006 - present
- Archives of Oral Biology, 1998 - present
- BMC Oral Health, 2005 - present
- Clinical Journal of Pain, 1996 - present
- Community Dentistry and Oral Epidemiology, 2002 - present
- European Journal of Pain, 2009 - present
- European Journal of Oral Sciences, 2005 - present
- General Hospital Psychiatry, 2007 - present
- Head & Face Medicine (open peer review journal), 2006
- International Journal of Psychophysiology, 2007 - present
- Journal of the American Dental Association, 1995 - present
- Journal of Dental Research, 1994 - present
- Journal of Oral Rehabilitation, 2006 - present
- Journal of Orofacial Pain, 1993 - present
- Journal of Pain, 2005 - present
- Journal of Prosthetic Dentistry, 1994 - present
- Journal of Psychosomatic Medicine, 2004 - present
- Journal of Psychosomatic Research, 2000 - present

Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology, 2010 - present
 Neuropsychiatric Disease and Treatment, 2010
 Pain, 1996 - present
 Personality and Social Psychology Bulletin, 1994, 1997
 Psychology & Health, 2006
 Psychosomatic Medicine, 2005 - present
 Psychosomatic Research, 2002 - present

Grant Reviewer

UB Interdisciplinary Research Development Fund: December 2005; June 2008
 NIH-CSR Special Emphasis Panel ZRG1 CFS (01) S, Chronic Fatigue Syndrome, Fibromyalgia,
 Temporomandibular Dysfunction: 2006; June 2008
 NIH-CSR Special Emphasis Panel ZDE1 JH (17), Planning Grants, February 2012
 External Reviewer for proposal, requested by Director, Office of Research, National University of
 Singapore, May 2003

Workshop Organizer

"International Consensus Workshop: Research Diagnostic Criteria for Temporomandibular
 Disorders, version 2". Jean-Paul Goulet, Frank Lobbezoo, Thomas List, Richard Ohrbach, Peter
 Svensson, planning committee and co-chairs. 2.5 day closed workshop with 25 invited
 participants from 11 countries. Sponsored by International RDC/TMD Consortium, IASP Orofacial
 Pain SIG, Canadian Institute of Health Research, and IADR. IADR, San Diego, March 14-16,
 2011.

"International Consensus Workshop: Convergence on an Orofacial Pain Taxonomy." Richard
 Ohrbach, Peter Svensson, Thomas List, Jean-Paul Goulet, planning committee and co-chairs. 2.5
 day closed workshop with 36 invited participants from 12 countries. Sponsored by International
 RDC/TMD Consortium, IASP Orofacial Pain SIG, Canadian Institute of Health Research, National
 Center for Biomedical Ontology, Medotech, and IADR. IADR, Miami, March 30 - April 2, 2009.

"Validation Studies of the RDC/TMD: Progress towards version 2." Richard Ohrbach and Peter
 Svensson, co-chairs. All-day workshop with 13 invited speakers and two discussion periods.
 IADR, Toronto, July 2, 2008.

Board Member

Love Canal Medical Fund, Incorporated, 2002 - 2005

TEACHING EXPERIENCE

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|----------------|--|
| 2007 - 2009 | <p>Course Director, Summer Research Seminar (ODS853)
 Developed course registration for ongoing 6-week required summer seminar for
 funded summer research students. Content of course includes professional
 socialization, exposure to other research via internal faculty and visitor
 presentations, research topic rehearsal in small groups, literature review,
 overview of statistical and design issues in research, and summer research day.
 Content varies each year in order to not be repetitive for returning students.</p> |
| 2005 - 2010 | <p>Chair, Research and Honors Committee
 Committee of 12 members, assisted by co-Chair, which reviews student-initiated
 research proposals for summer funding. Committee and Chair also develop
 policy and guidelines. Chair also coordinates, with Associate Dean for
 Research, annual Research Day. Have refined program, adding course
 registration content for providing faculty with evidence of time committed to
 research mentoring, improved funding activities, and enhanced senior thesis
 activities.</p> |
| 1999 - present | <p>Course Director, TMD Conceptual Foundations (ODS500; formerly called Clinical
 TMD Seminar and Practicum: Tutorial for Prosthodontic Residents; ODS 964)
 Graduate seminar focused on exploration of theoretical models and their
 evidential support, with the goal that the students will develop their own clinical</p> |

- explanatory models for TMD disease onset and progression. Significant reading and synthesis paper on relevant topic is required.
- 1998 - present Course Director, Differential Diagnosis (ODS 830)
8-week third year course (spring semester) which addresses differential diagnosis of dental disease and parallels course content in ODS834. This course integrates rationale for history, physical examination, and biobehavioral assessment, as well as the cognitive basis for decision-making.
- 1998 - present Course Director, Pain and Motor Functions Research Seminar (ODS 560)
Graduate seminar developed in order to address specific needs in the graduate clinical-research training program. Seminar provides forum for presentations by practicing researchers outside SDM, topic development by program faculty, and student presentations for purposes of providing constructive feedback. Also reviews current and classical literature. We continue to explore different methods of course structure and teaching methods.
- 1998 -1999 Instructor, undergraduate hospital dentistry rotation (ODS 843)
Responsibilities for this small group 1.5 hour weekly seminar included course development, preparation of case-based instruction materials, and facilitation of discussion oriented around understanding of biobehavioral treatments for dental disorders, and integration of diagnostic and treatment modalities for TMDs.
- 1998 - 2002 Director, Orofacial Pain and Motor Functions Research Group
Faculty, graduate student, and honors student working group for purpose of developing research ideas, research planning, overseeing research in progress, and ongoing group projects. Research group meetings also serve to facilitate socialization of graduate students into scientific practice.
- 1998 - present Supervisor, laboratory research training
Responsibilities include direct supervision of graduate students regarding the acquisition of basic research skills in behavioral science methods as they apply to pain research in human subjects.
- 1997 - 2000 Director, TMD & Orofacial Pain Clinic (ODS 940)
Responsibilities include direct clinical supervision of post-doctoral students who are pursuing graduate degrees, and incorporating their didactic education in areas such as pain mechanisms, research design, etc into the clinical training.
- 1997 - 2001 Director, Clinical Pain Seminar (ODS 942)
Responsibilities for this small group seminar include organization of clinically-relevant teaching materials, supervision of skill development, and facilitation of the development of critical thinking skills.
- 1995 - 19/95 Co-instructor for undergraduate dental course
Responsibilities included refinement of teaching materials focusing on statistics relevant to clinical epidemiology. Teaching methods included problem-based learning and small-groups. Course director: Robert Genco, DDS, PhD
- 1994 - 1995 Director, TMD and Orofacial Pain Clinic, School of Dental Medicine
1997 - 2001 Responsibilities include administrative management of clinic, development of clinic into larger institutional model of Special Care Clinics, development of new database forms, and direct clinical supervision of post-doctoral students.
- 1994 - 1995 Co-Instructor for graduate pain course.
Responsibilities included development of syllabus, selection of reading materials, development of weekly quizzes, development of case scenarios, and in-class supervision. Teaching methods included problem-based learning and small-groups.
Co-instructor: Willard D. McCall, Jr, PhD

- 1992 Co-Instructor for graduate seminar, "Clinical conceptions of personality"
Responsibilities included developing the course syllabus and reading list, coordinating outside speakers, evaluating written assignments, and meeting weekly with primary instructor to continually develop the course. Co-Instructor: James Julian, PhD
- 1991 Co-Instructor for post-doctoral graduate seminar in Problem-Based Learning.
Responsibilities included monitoring other instructor and students during experimental approach to teaching, facilitating class process, and assessing outcome reports.
Co-Instructor: Norman Mohl, DDS, PhD
- 1990 Seminar Leader for post-doctoral graduate seminar on Current Issues in Pain Management.
Responsibilities included arranging speakers, facilitating discussion, assessing outcome.
- 1990 Teaching Assistant for undergraduate class in Introductory Statistics.
Responsibilities included reviewing homework and tutoring. Instructor: Cliff Braumberg
- 1990 Teaching Assistant for graduate class in Advanced Statistical Methods II.
Responsibilities included reviewing homework, tutoring, and conducting review sessions. Instructor: Ken Levy, PhD
- 1989 - 1990 Clinical Instructor for post-doctoral graduate seminar and clinic in pain management.
Responsibilities included supervision and weekly lecturing.
- 1989 Teaching Assistant for graduate class in Advanced Statistical Methods I.
Responsibilities included reviewing homework, tutoring, and conducting review sessions. Instructor: Ken Levy, PhD
- 1982 - 1985 Clinical Supervisor for advanced clinical training
Responsibilities included direct clinical supervision of graduate students in General Dentistry and Periodontics.

GRANT ACTIVITY

2012 - 2017

NIDCR, OPPERA-2, Principal Investigator: R Ohrbach (Buffalo study site)
Grant is 5-year multi-site study, with additional sites at University of North Carolina (sponsoring center), University of Florida, University of Maryland, and Battelle Memorial Institute Inc.
Progress: funded effective Aug 1, 2012
Funding at UB: TBA (direct costs only)
Total Funding: TBA (direct costs only)

2011 - 2014

NIDCR, "TMJ Intra-articular Disorders: Impact on Pain, Functioning, and Disability", Principal Investigator: R Ohrbach (Buffalo site)
Grant is 3-year multi-site study, with additional sites at the University of Minnesota (sponsoring center) and University of Washington
Progress: funded effective July 13, 2011
Funding at UB: \$765,182 (direct costs only)
Total Funding: \$3,299,445 (direct costs only)

2011 - 2016

NIDCR, "Joules, Genes, and Behaviors: A Multifactorial Assessment of TMD Risk Factors", Co-investigator
Grant is 5-year multi-center study, with additional sites at University of Missouri-Kansas City (sponsoring center) and University of Zurich
Progress: funded effective July 13, 2011
Funding at UB: \$812,410 (direct costs only)
Total Funding: \$2,606,953 (direct costs only)

- 2011 - 2013 NIDCR, "An Ontology for Pain and Related Disability, Mental Health and Quality of Life", Co-investigator
Progress: funded effective July 1, 2011
Funding: \$518,975 (direct costs only)
- 2005 - 2012 NIDCR, "Orofacial Pain: Prospective Evaluation and Risk Assessment"
Principal Investigator: R. Ohrbach (Buffalo site)
Grant is 7-year multi-site study, with additional sites at University of North Carolina (sponsoring center), University of Florida, University of Maryland, and Battelle Memorial Institute Inc.
Progress: funded effective September 15, 2005
Funding at UB: over \$3.3 million total costs for full grant period
Total funding: \$19.1 million
- 2001 - 2008 NIDCR, "Research Diagnostic Criteria: Reliability and Validity"
Principal Investigator: R. Ohrbach (Buffalo site)
Grant is 5.8-year multi-site study, with additional sites at the University of Minnesota (sponsoring center) and the University of Washington
Progress: funded effective July 1, 2001
Funding at UB: over \$1 million direct costs for full grant period
Total funding: \$5.2 million initial award; \$2.9 million supplemental award.
- 2000 - 2002 NIDCR, "International Collaborative Oral Health Research Planning Grant"
Principal Investigator: SF Dworkin (University of Washington)
Grant is 2-year planning grant for international TMD research
Role: Co-Investigator
Outcome: Funded 4/1/2000
- 1997 - 1999 Folktaandvarden, Landstinget i Ostergotlands Lan D10-16-9, Linkoping, Sweden.
Effect of oral appliance compared with umulopalatopharyngoplasty (UPPP) in patients with a obstructive sleep apnea syndrome—a controlled study.
Principal Investigator: Thomas List
Role: Statistician
Progress: Completed
- 1991 NIDR P30 DE09746, "Development of Diagnostic Markers for Psychosocial Stress"
Principal Investigator: R.Ohrbach
Outcome: Approved, Not funded
- 1990 NIDR P30 DE09746, "Clinical Dental Research Core Centers"
Principal Investigator: N.D.Mohl
Role: Co-Investigator
Outcome: Approved, Not funded
- 1989 - 1994 NIDR DE00280, "Psychophysiological Assessment of Stress in Chronic Pain"
Principal Investigator: R.Ohrbach
Total Award: \$291,968 (direct costs only)

SCIENTIFIC PUBLICATIONS

- Meloto CB, Segall SK, Smith S, Rizzatti-Barbosa CM, Gauthier J, Tsao D, Convertino M, Piltonen MH, Slade GD, Dubner R, Fillingim RB, Greenspan JD, Ohrbach R, Knott C, Weir B, Maixner W, Zaykin D, Dokholyan NV, Reenila I, Mannisto P, Diatchenko L (in review). *COMT* Gene Locus: New Functional Variants. Submitted to *Science*.
- Martin LJ, Smith SB, Khoutorsky A, Magnussen CA, Sorge RE, Mir E, Gibson DG, Otis V, Wieskopf JS, Sotocinal SG, A J-S, Salter MW, Sonengerg N, Gendron L, Greenspan J, Fillingim RB, Ohrbach R, Slade GD, Knott C, Dubner R, Ribeiro-da-Silva A, Maixner W, Mogil JS,

- Diatchenko L (in review). Epiregulin and epidermal growth factor receptor involvement in pain revealed by a reverse translational approach. Submitted to *Cell*.
3. Slade G, Sanders AE, Ohrbach R, Fillingim RB, Dubner R, Gracely R, Diatchenko L, Bair E, Maixner W, Greenspan JD (2014). Pressure pain detection thresholds fluctuate with - but do not usefully predict - the course of painful temporomandibular disorder. *Pain*.
 4. Durham J, Yule PL, Richardson H, Moufti A, Steele J, Steen N, Wassell RW, Ohrbach R (in review). OHIP-TMDs: A patient-reported outcome measure for temporomandibular disorders. Submitted to *Community Dentistry and Oral Epidemiology*.
 5. Alsafi Z, Michelotti A, Ohrbach R, Nilner M, List T (2014). Achieved competencies in temporomandibular disorders/orofacial pain. A comparison between dental schools in Europe and the United States. *European Journal of Dental Education*.
 6. Ceusters W, Durham J, Raphael K, Benoliel R, Michelotti A, Ohrbach R (in review). Perspectives on Next Steps in the Classification of Orofacial Pain (part 2): Role of Psychosocial Factors. Towards research diagnostic criteria for patients with orofacial pain. Submitted to *Journal of Oral Rehabilitation*.
 7. Durham J, Raphael K, Ceusters W, Benoliel R, Michelotti A, Ohrbach R (in review). Perspectives on Next Steps in the Classification of Orofacial Pain (part 1): Role of Ontology. Submitted to *Journal of Oral Rehabilitation*.
 8. Schiffman E, Ohrbach R, Truelove E, Look J, Anderson G, Goulet J-P, List T, Svensson P, Gonzalez Y, Lobbezoo F, Michelotti A, Brooks S, Ceusters W, Drangsholt M, Ettlin D, Gaul C, Goldberg LJ, Haythornthwaite J, Hollender L, Jensen R, John MT, deLaat A, deLeeuw R, Maixner W, van der Meulen M, Murray GM, Nixdorf DR, Palla S, Petersson A, Pionchon P, Smith B, Visscher C, Zakrzewska J, and Dworkin SF (2014). Diagnostic Criteria for Temporomandibular Disorders (DC/TMD) for Clinical and Research Applications: Recommendations of the International RDC/TMD Consortium Network and Orofacial Pain Special Interest Group. *Journal of Oral & Facial Pain and Headache* 28:6-27. doi: 10.11607/jop.1151
 9. Peck CC, Goulet J-P., Lobbezoo F, Schiffman EL, Alstergren P, Anderson GC, De Leeuw R, Jensen R, Michelotti A, Ohrbach R, Petersson A, List T (2014). Expanding the taxonomy of the diagnostic criteria for temporomandibular disorders. *Journal of Oral Rehabilitation* 41:2-23.
 10. Fillingim RB, Bruehl S, Dworkin RH, Dworkin SF, Loeser JD, Turk DC, Widerstrom-Noga E, Arnold L, Bennett R, Edwards RR, Freeman R, Gewandter J, Hertz S, Hochberg M, Krane E, Mantyh PW, Markman J, Neogi T, Ohrbach R, Paice J, Porreca F, Rappaport BA, Smith SM, Smith TJ, Sullivan MD, Verne GN, Wasan AD, Wessellmann U (2014). The ACTION-American Pain Society Pain Taxonomy (AAPT): An evidence-based and multi-dimensional approach to classifying chronic pain conditions. *Journal of Pain* 15:241-249.
 11. Ohrbach R, Bair E, Fillingim RB, Gonzalez Y, Gordon SM, Lim P-F, Ribeiro-Dasilva M, Diatchenko L, Dubner R, Greenspan JD, Knott C, Maixner W, Smith S, Slade G (2013). Clinical orofacial characteristics associated with risk of first-onset TMD: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T33-T50.
 12. Sanders AE, Slade GD, Bair E, Fillingim RB, Knott C, Dubner R, Greenspan JD, Maixner W, Ohrbach R (2013). General health status and incidence of first-onset temporomandibular disorder: OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T51-T62.
 13. Bair E, Browstein NC, Ohrbach R, Greenspan JD, Dubner R, Fillingim RB, Diatchenko L, Smith S, Maixner W, Gonzalez Y, Gordon S, Lim P-F, Ribeiro-Dasilva M, Dampier D, Knott C, Slade GD (2013). Study design, methods, sample characteristics and loss-to-follow-up: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T2-T19.

14. Bair E, Ohrbach R, Fillingim RB, Greenspan JD, Dubner R, Diatchenko L, Knott C, Maixner W, Slade GD (2013). Multivariable modeling of phenotypic risk factors for first-onset TMD: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T102-T115.
15. Fillingim RB, Ohrbach R, Greenspan JD, Knott C, Diatchenko L, Dubner R, Bair E, Baraian C, Mack N, Slade GD, Maixner W (2013). Psychosocial factors associated with development of TMD: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T75-T90 .
16. Greenspan JD, Slade GD, Bair E, Dubner R, Fillingim RB, Ohrbach R, Knott C, Diatchenko L, Liu Q, Maixner W (2013). Pain sensitivity and autonomic factors associated with development of TMD: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T63-T74.
17. Slade GD, Bair E, Greenspan JD, Dubner R, Fillingim RB, Diatchenko L, Maixner W, Knott C, Ohrbach R (2013). Signs and symptoms of first-onset TMD and socio-demographic predictors of its development: the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T20-T32.
18. Smith SB, Mir E, Bair E, Slade GD, Dubner R, Fillingim RB, Greenspan JD, Ohrbach R, Knott C, Weir B, Maixner W, Diatchenko L (2013). Genetic variants associated with development of TMD and its intermediate phenotypes: the genetic architecture of TMD in the OPPERA prospective cohort study. *Journal of Pain* 14 (Supplement 2): T91-T101.
19. Slade GD, Fillingim RB, Sanders AE, Bair E, Greenspan JD, Ohrbach R, Dubner R, Diatchenko L, Smith SB, Knott C, Maixner W (2013). Summary of findings from the OPPERA prospective cohort study: implications and future directions. Submitted to *Journal of Pain* 14 (Supplement 2): T116-T124.
20. Slade GD, Smith S, Zaykin D, Tchivileva I, Gibson D, Yuryev A, Mazo I, Bair E, Fillingim R, Ohrbach R, Maixner W, Diatchenko L (2013). Facial pain with localized and widespread manifestations: separate pathways of vulnerability. *Pain* 154: 2335-2343.
21. Osiewicz MA, Lobbezoo F, Loster BW, Wilkosz M, Naeije M, Ohrbach R (2013). Research Diagnostic Criteria for Temporomandibular Disorders (RDC/TMD) – The Polish version of a dual-axis system for the diagnosis of TMD.*RDC/TMD Form [Badawcze Kryteria Diagnostyczne Zaburzeń Czynnościowych Układu Ruchowego Narządu Żucia BKD/ZCURNŹ – polska wersja dwuosiowego systemu diagnostycznego ZCURNŹ.*Formularz BKD/ZCURNŹ]. *Journal of Stomatology* 66: 576-649.
22. Sanders, AE, Essick GK, Fillingim RB, Knott CE, Ohrbach R, Greenspan JD, Diatchenko LB, Maixner W, Dubner R, Bair E, Miller VE, Slade GD (2013). Sleep Apnea Symptoms and Risk of Temporomandibular Disorder: OPPERA Cohort. *Journal of Dental Research* 92 (supplement 7): S70-S77.
23. Slade GD, Sanders A, Bair E, Brownstein N, Dampier D, Knott C, Fillingim RF, Maixner W, Smith S, Greenspan J, Dubner R, Ohrbach R (2013). Preclinical episodes of orofacial pain symptoms and their association with healthcare behaviors in the OPPERA prospective cohort study. *Pain* 154: 750-760.
24. Schiffman ES, Ohrbach R, List T, Anderson G, John M, Nixdorf D, Truelove E, Jensen R, Clavel A, Kang W, Look J (2012). Diagnostic criteria for a secondary headache disorder: Headache attributed to temporomandibular disorders (TMD). *Cephalalgia* 32(9): 683-692.
25. Nickel JC, Gonzalez YM, McCall WD Jr, Ohrbach R, Marx DB, Liu H, Iwasaki L (2012). Muscle organization in individuals with and without pain and joint dysfunction. *Journal of Dental Research* 91: 568-573.
26. List T, John MT, Ohrbach R, Schiffman EL, Truelove E, Anderson GC (2012). Influence of headache frequency on pain intensity, physical functioning and emotional functioning in subjects with temple headache and TMD pain. *Journal of Orofacial Pain* 26: 83-90.

27. Vanecek RJ, McGeary DD, Talcott GW, Lang M, Tabor A, Ohrbach R (2011). Prevalence of TMD and PTSD symptoms in a military sample. *Journal of Applied Biobehavioral Research* 16 (3-4):121-137.
28. Maixner W, Greenspan JD, Dubner R, Bair E, Mulkey F, Miller V, Diatchenko L, Knott C, Slade GD, Ohrbach R, Fillingim RB (2011). Potential autonomic risk factors for chronic TMD: Descriptive data and empirically identified domains from the OPPERA case-control study. *Journal of Pain* 12 (Supplement 3): T4-T11.
29. Slade GD, Bair E, By K, Mulkey F, Baraian C, Rothwell R, Reynolds M, Gonzalez Y, Gordon S, Ribeiro-Dasilva M, Lim PF, Greenspan JD, Dubner R, Fillingim RB, Diatchenko L, Maixner W, Dampier D, Knott C, Ohrbach R (2011). Study methods, recruitment, socio-demographic findings and demographic generalizability in the OPPERA study. *Journal of Pain* 12 (Supplement 3): T12-T26.
30. Ohrbach R, Fillingim RB, Mulkey F, Gonzalez Y, Gordon S, Gremillion H, Lim PF, Ribeiro-Dasilva M, Greenspan JD, Knott C, Maixner W, Slade GD (2011). Clinical findings and pain symptoms as potential risk factors for chronic TMD: Descriptive data and empirically identified domains from the OPPERA case-control study. *Journal of Pain* 12 (Supplement 3): T27-T45.
31. Maixner W, Diatchenko L, Dubner R, Fillingim RB, Greenspan JD, Knott C, Ohrbach R, Weir B, Slade GD (2011). Orofacial Pain Prospective Evaluation and Risk Assessment Study – The OPPERA Study. *Journal of Pain* 12 (Supplement 3): T75-T91.
32. Fillingim, RB, Ohrbach R, Greenspan JD, Knott C, Dubner R, Bair E, Baraian C, Slade GD, Maixner W (2011). Potential psychosocial risk factors for chronic TMD: Descriptive data and empirically identified domains from the OPPERA case-control study. *Journal of Pain* 12 (Supplement 3): T46-T60.
33. Greenspan JD, Slade GD, Bair E, Dubner R, Fillingim RB, Ohrbach R, Knott C, Mulkey F, Rothwell R, Maixner W (2011). Pain sensitivity risk factors for chronic TMD: Descriptive data and empirically identified domains from the OPPERA case-control study (in review). *Journal of Pain* 12 (Supplement 3): T61-T74.
34. Smith SB, Maixner D, Greenspan JD, Dubner R, Fillingim RB, Ohrbach R, Knott C, Slade GD, Bair E, Zaykin DV, Weir B, Maixner W, Diatchenko L (2011). Case-control association study of TMD reveals genetic risk factors. *Journal of Pain* 12 (Supplement 3): T92-T101.
35. Fillingim R, Slade GD, Diatchenko L, Dubner R, Greenspan JD, Knott C, Ohrbach R, Maixner W (2011). Summary of Findings from the OPPERA Baseline Case-Control Study: Implications and Future Directions. *Journal of Pain* 12 (Supplement 3): T102-T107.
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SCIENTIFIC PRESENTATIONS and ABSTRACTS

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42. Iwasaki LR, Crosby MJ, Gonzalez YM, McCall WD Jr, Ohrbach R, Speers T, Marx DB, Nickel JC. Model-predicted TMJ loads in humans with and without disc displacement. IADR Toronto CA, July 2008.
43. McCall WD, Gonzalez Y, Iwasaki LR, Ohrbach R, Speers T, Nickel JC. Reliability of EMG activity versus bite force during static biting. IADR Toronto CA, July 2008.
44. Ohrbach R, Sherman J, Michalovic S, Dworkin SF, Schiffman E, Truelove E, Turner J. Validity of RDC/TMD Axis II: Identifying Psychiatric Morbidity. IADR New Orleans, LA, March 2007. JDR 2007.
45. Qureshi Z, Ohrbach R, Kim J-H, McCall WD Jr. Pain and limitation with chewing: Experimental validation of the JFLS. IADR New Orleans, LA, March 2007. JDR 2007.
46. Anderson G, Look J, Pan W, Truelove E, Ohrbach R, Schiffman E. MRI-confirmed Disc Displacement in the Clinically Normal Temporomandibular Joint. IADR New Orleans, LA, March 2007. JDR 2007.
47. Lenton P, Garfinkel L, Huggins KH, Jackson A, Look J, Pan W, Ohrbach R, Truelove E, Schiffman E. Examiner Reliability for the RDC/TMD Group-I Myofascial Pain Diagnoses. IADR New Orleans, LA, March 2007. JDR 2007.
48. Schiffman E, Truelove E, Ohrbach R, Gonzalez Y, Anderson G, Jackson A, Lenton P, Pan W, Look J. Diagnostic Validity of Current and Revised RDC/TMD Myofascial Pain Diagnoses. IADR New Orleans, LA, March 2007. JDR 2007.
49. Gonzalez Y, Ohrbach R, Schiffman E, Truelove E, Michalovic SA, Garfinkel L. Patient History Questionnaire from the original RDC/TMD: Reliability and Validity. IADR New Orleans, LA, March 2007. JDR 2007.
50. Huggins KH, Truelove E, Schiffman E, Ohrbach R, Pan W, Look J. Examiner Reliability for the RDC/TMD Arthralgia (Group IIIa) Diagnoses. IADR New Orleans, LA, March 2007. JDR 2007.
51. Truelove E, Sommers E, Huggins KH, Schiffman E, Ohrbach R, Look J, Pan W. Diagnostic Validity of Current and Revised RDC/TMD Protocols for Arthralgia. IADR New Orleans, LA, March 2007. JDR 2007.
52. Ohrbach R, Look JO, Truelove E, Schiffman E, Gonzalez YM, Pan W. Intersection of Temporalis Myofascial Pain with Tension-Type Headache Diagnoses. AADR, Orlando FL, March 2006. JDR Special Issue A.
53. Markiewicz MR, Ohrbach R, McCall WD. Structured vs Unstructured Tongue Positioning: Effects On Masticatory Muscle EMG. AADR, Orlando FL, March 2006. JDR Special Issue A.
54. Truelove E, Sommers E, Huggins KHH, Look JO, Schiffman E, Ohrbach R, Hollender L, Mancl L. Diagnostic Value of TMJ Imaging When Added to Clinical Findings. AADR, Orlando FL, March 2006. JDR Special Issue A..
55. Gonzalez YM, Ohrbach R, Havrilla-Tejeda C, Kartha K, Baumgartner S, Jahn P, Garfinkel L. Agreement between screening interview and gold standard diagnosis in TMD. AADR, Orlando FL, March 2006. JDR Special Issue A.

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56. Schiffman E, Look JO, Ahmad M, Hollender L, Kartha K, Anderson Q, Ohrbach R, Truelove E. Diagnostic Agreement for TMJ Osteoarthritis Based on Three Imaging Procedures. AADR, Orlando FL, March 2006. JDR Special Issue A.
 57. Ohrbach R, Markiewicz MR, McCall WD, Jr. Oral Behaviors Checklist: Performance Validity of Targeted Behaviors. IADR, Baltimore MD, March 2005. JDR Special Issue A.
 58. Markiewicz MR, Ohrbach R, McCall WD, Jr. Oral Behaviors Checklist: Reliability of Performance of Targeted Behaviors. IADR, Baltimore MD, March 2005. JDR Special Issue A..
 59. Zhang Y, Chung J-W, Kim Y-K, Chung S-C, Ohrbach R. Reliability of a Korean version of the Jaw Functional Limitation Scale in dental college students. American Academy of Orofacial Pain, San Francisco CA, April 2004.
 60. Ohrbach R, Beneduce C, Markiewicz M, McCall WD Jr. Psychometric properties of the Oral Behaviors Checklist: Preliminary findings. IADR, Honolulu Hawaii, March 2004. Journal of Dental Research 83, Special Issue A.: 1194.
 61. Markiewicz MR, Ohrbach R, Beneduce C, McCall WD Jr. Electromyographic correlates of common oral behaviors. IADR, Honolulu Hawaii, March 2004. Journal of Dental Research 83, Special Issue A.
 62. Al-Shaafi M, McCall WD Jr, Ohrbach R, Chung JW. Effect of peripheral nerve stimulation on electrical trigger point activity. IADR, Honolulu Hawaii, March 2004. Journal of Dental Research 83, Special Issue A.
 63. Leong S, McCall WD Jr, Al-Shaafi M, Chung JW, Ohrbach R. Effect of intrathoracic pressure on finger pulse amplitude. IADR, Honolulu Hawaii, March 2004. Journal of Dental Research 83, Special Issue A.
 64. Ohrbach R, List T. Relationship of limitation and disability in TMD and other oral conditions. IADR, Goteborg Sweden, June 2003. Journal of Dental Research 82, Special Issue A.
 65. Ohrbach R, Beneduce C, Zittel-Palamara K, Sherman J. Parallel forms validity using the SCL-90 vs isolated subscales. IADR, Goteborg Sweden, June 2003. Journal of Dental Research 82, Special Issue A.
 66. Larsson P, List T, Lundstrom I, Marcusson A, Ohrbach R. Reliability and validity of a Swedish version of the Oral Health Impact Profile. IADR, Goteborg Sweden, June 2003. Journal of Dental Research 82, Special Issue A.
 67. Ohrbach R. International Multi-center Clinical Research: Issues and Challenges with a Focus on Chronic Pain. Symposium Chairman. IADR, Goteborg Sweden, June 2003. Journal of Dental Research 82, Special Issue A.
 68. Larsson P, List T, Lundström I, Marcusson A, Ohrbach R. Reliability and validity of a Swedish version of the oral health impact profile: preliminary results . Swedish Dental Meeting. 2002
 69. Chung JW, Ohrbach R, McCall WD. Effect of needle penetration on the reported pain and EMG activity of myofascial trigger points. Society for Neuroscience, Washington DC, November 2002.
 70. McCall WD, Chung JW, Ohrbach R. An estimate of the number of active motor units in myofascial trigger points. Society for Neuroscience, Washington DC, November 2002.
 71. Ohrbach R. Further Refinement of the RDC/TMD: Development of a Measure for Functional Limitation of the Jaw. Invited paper for Symposium: TMD Around the World: Initial Findings from

- the International Consortium for RDC/TMD-based Research, International Association for Dental Research, March 2002. [Journal of Dental Research 81, Special Issue A]
72. Ohrbach R, List T. Psychometric properties of the Jaw Functional Limitation Scale. International Association for Dental Research, March, 2002. Journal of Dental Research 81, Special Issue A-147, abstract 1023.
 73. List T, Paulin G, Lundström I, Ohrbach R. Orofacial disorder diagnoses: relationship to the Jaw Functional Limitation Scale. International Association for Dental Research, March, 2002. [Journal of Dental Research 81, Special Issue A]
 74. Rodrigues V, Alexander K, Ohrbach R, Chung JW, McCall WD Jr. Masseter muscle single motor units: effect of bite angle on recruitment. International Association for Dental Research, March, 2002. [Journal of Dental Research 81, Special Issue A]
 75. Alexander K, Rodrigues V, Ohrbach R, Chung JW, McCall WD Jr. Medial pterygoid muscle single motor units: effect of bite angle on recruitment. International Association for Dental Research, March, 2002. [Journal of Dental Research 81, Special Issue A]
 76. Chung JW, Ohrbach R, McCall WD Jr. Reliability of electrical activity from myofascial trigger points. International Association for Dental Research, March, 2002. [Journal of Dental Research 81, Special Issue A]
 77. Chung JW, Ohrbach R, McCall Jr. Effect of increased sympathetic activity on myofascial trigger point EMG. International Association for Dental Research, March, 2002. [Journal of Dental Research 81, Special Issue A]
 78. List T, Paulin G, Lundström I, Ohrbach R. Further development of the jaw functional limitation scale (JFLS): Preliminary results. Public Dental Research Council, Östergötland, Sweden. 2001.
 79. Goldberg JI, Ohrbach R, Granger VC, Markello SM. TMD pain, limitation and disability: perceptions of patients vs others. American Association for Dental Research, March 2001.
 80. Safadi S, Qadeer O, Ramaglia M, Ohrbach R. Temporal characteristics of post-treatment TMD pain. International Association for Dental Research, April 2000.
 81. Rodrigues V, McCall WD Jr, Safadi S, Chacon JA, Ohrbach R. Directional tuning of motor units in the temporalis muscle. International Association for Dental Research, April 2000.
 82. Danielson-Edquist L, List T, Harder L, Ohrbach R. Reliability and validity of a questionnaire in patients with snoring and obstructive sleep apnea. Swed Dent J 5-6: 237, 1999.
 83. Ohrbach R, Dworkin SF, Granger CV. Cross-validation of a disability scale for chronic temporomandibular disorder pain. 9th World Congress, International Association for the Study of Pain, Vienna, Austria, 1999.
 84. Ohrbach R, Dworkin SF & Truelove E. Domains of measurement in chronic TMD pain: Psychometric properties. International Association for Dental Research, Vancouver, BC, 1999. [Journal of Dental Research 78 (IADR Abstracts): 292]
 85. Horrell BM, Ohrbach R, Markello S & Granger C. Validity of a self-report scale for TMD-related disability. International Association for Dental Research, Vancouver, BC, 1999. [Journal of Dental Research 78 (IADR Abstracts): 292]
 86. Uyanik J & Ohrbach R. Effects of relaxation on TMD symptoms: a randomized clinical trial. International Association for Dental Research, Vancouver, BC, 1999. [Journal of Dental Research 78 (IADR Abstracts): 292]

87. Dworkin SF, Sherman J, Ohrbach R, Truelove E, Huggins K & LeResche L. Validity for research and clinical utility of RDC/TMD Axis II. International Association for Dental Research, Vancouver, BC, 1999. [Journal of Dental Research 78 (IADR Abstracts): 292]
88. Horrell BM, McCall WD, Jr, Kuriakose M, Ramos B, Musa N & Ohrbach R. Contamination of EMG signals by distant muscles: cross-talk between jaw closing and facial muscles. International Association for Dental Research, Vancouver, BC, 1999. [Journal of Dental Research 78 (IADR Abstracts): 193]
89. Ohrbach R, Dworkin SF, LeResche L, & Mancl L. Cognitive predictors of treatment-seeking for TMD pain. American Association for Dental Research, Minneapolis, MN, 1998. [Journal of Dental Research 77 (AADR Abstracts): 111].
90. Dworkin SF, Ohrbach R, LeResche L, Mancl L & Truelove E. High utilizers of TMD treatment: prevalence and selected characteristics. American Association for Dental Research, Minneapolis, MN, 1998. [Journal of Dental Research 77 (AADR Abstracts): 112].
91. Ohrbach R, LeResche L & Dworkin SF. Longitudinal changes in TMD: Influence of Baseline Findings and Treatment-Seeking. International Association for Dental Research, Orlando, FL, 1997. [Journal of Dental Research 76 (IADR Abstracts):389]
92. Ohrbach R. Response specificity, coping, and adaptation to stress: effects of different stressor types on reactivity in myofascial pain patients. International Association for the Study of Pain, Vancouver, 1996. [8th World Congress on Pain, IASP Press, Seattle, WA; p. 282]
93. Dworkin SF, LeResche L, Mancl L, Ohrbach R, Truelove E, Huggins K & Von Korff M. Longitudinal course of TMD-related pain in clinic and community cases. International Association for the Study of Pain, Vancouver, 1996. [8th World Congress on Pain, IASP Press, Seattle, WA; p. 156]
94. Ohrbach R & Dworkin SF. TMD pain patterns: baseline-five year relationship with clinical findings. International Association for Dental Research, San Francisco, 1996. [Journal of Dental Research 75 (IADR Abstracts): #2677]
95. Ohrbach R. Psychophysiological reactivity to imagery and reaction-time task in temporomandibular disorder. American Association for Dental Research, San Antonio, 1995. [Journal of Dental Research 74 (AADR Abstracts): 223]
96. Ohrbach R. Psychophysiological assessment of stress in chronic pain: a comparison of stressful stimuli and response systems. American Psychological Association, Toronto, Canada, 1993.
97. Ohrbach R, Crow H & Kamer A. Experimenter expectancy and pressure pain threshold measurements. International Association for Dental Research, Acapulco, Mexico, 1991. [Journal of Dental Research 70 (IADR Abstracts):#851]
98. Kamer AR, Crow HC & Ohrbach R. Inter-rater and inter-instrument reliability of pressure pain thresholds in normal muscle. International Association for Dental Research, Cincinnati, 1990. [Journal of Dental Research 69 (IADR Abstracts): #1494]
99. Ohrbach R & Gale EN. Pressure pain thresholds and observer rating of masticatory muscle tenderness. International Association for Dental Research, Dublin, 1989. [Journal of Dental Research 68 (IADR Abstracts): #1210]
100. Ohrbach R & Gale EN. Role of subject feedback in pressure pain threshold measures. 1st International Symposium in Myofascial Pain and Fibromyalgia, Minneapolis, 1989.

101. Ohrbach R & Gale EN. Pressure pain threshold and differential diagnosis of masticatory muscle disorders. American Association for Dental Research, San Francisco, 1989. [Journal of Dental Research 68 ((AADR Abstracts):#1184]
102. Ohrbach R & Gale EN. Pressure pain threshold instrumentation: tipsize, validity, and reliability. Canadian Pain Society and American Pain Society Joint Meeting, Toronto, Canada, 1988. [Joint Meetings Abstracts, P60]
103. Ohrbach R & Gale EN. The relationship of current pain to pressure pain thresholds in patients with chronic pain. International Association for Dental Research Combined Section Meeting of the Buffalo, Rochester, Toronto, and Western Ontario Chapters. Niagara-on-the-Lake, Ontario, Canada, 1988.
104. Ohrbach R & Gale EN. Pressure pain thresholds of masticatory muscles. International Association for Dental Research, Montreal, 1988. [Journal of Dental Research 67 (IADR Abstracts):#1265]
105. Rugh JD, Smith JC, Ohrbach RK & Graham GS. Effect of splint occlusal guidance patterns on nocturnal bruxism in MPD patients. International Association for Dental Research, Chicago, 1987. [Journal of Dental Research 66 (IADR Abstracts):#692]
106. Ohrbach RK, Reeves JL, Graff-Radford SB & Jaeger B. Correlation between the McGill Pain Questionnaire and the Visual Analogue Scale. American Pain Society, Washington, D.C., 1986. [Proceedings of the American Pain Society, 1986, P57]

INVITED PRESENTATIONS

- “TMD as a Regional vs Complex Disorder: Why that Matters”, in Drinnan Symposium. Niagara Frontier Dental Meeting, Buffalo, NY, September 27, 2013.
- “Behavior and TMD Pain”, in Consortium for Orthodontic Advances in Science and Technology: Neuro-Musculo-Skeletal Interactions in Health and Disease. University of North Carolina-Chapel Hill, October 19-21, 2012.
- “Tools for TMD and OFP: Clinical Assessment – Axis II”, in EACD 2012: Pain and Dysfunction: an Update on Decision-Making“. University of Paris, France, Sept 8, 2012.
- DC/TMD: screening and psychosocial assessment, which instrument should be used?”, in Satellite Meeting in Orofacial Pain and TMD, São Paulo, Brasil, June 24, 2012.
- “The University at Buffalo: Pedagogical, Educational, and Research Opportunities for Malmö Collaboration.” Malmö University, Sweden, September 21, 2011.
- “Predictors of TMD Pain: Progress from the OPPERA Project”, to Department of Oral Medicine, University of Pennsylvania. April 1, 2011.
- “Physical diagnosis vs biobehavioral assessment: implications for treatment”, to Department of Oral and Maxillofacial Surgery, Osaka Dental University, Osaka, Japan, July 26, 2010.
- “The role of dental medicine in providing behavioral therapy for TMD”, in: 23rd Annual Meeting of the Japanese Society of the Temporomandibular Joint. Tokyo, Japan, July 24, 2010.
- “Self-report questionnaires: using them effectively”, Malmö University, Sweden, May 2010.

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- "Disability assessment in rehabilitation of the masticatory system", in Journal of Oral Rehabilitation Colloquium on Oral Rehabilitation, Certosa di Pontignano Congress Center in Siena, Italy, Oct 7-11, 2009.
- "Behavior and TMD: It is not just for psychologists anymore", in: International TMD and OFP Course, promoted by Associação dos Medicos Estomatologistas de Portugal, with the University of Porto - Medical School as cosponsor. Porto, Portugal, July 6, 2009.
- "Sleep Parasomnias and the Dental Practitioner" with Kate Bennett DDS. Continuing Dental Education, School of Dental Medicine, University at Buffalo. Nov 9, 2007.
- "Practical development of self-report instruments for dental research", Malmö University, Sweden, September 2007.
- "Functional Limitation of the Jaw: Why Measurement Matters:", Dental School Research Seminar Series, University of Texas Health Sciences Center, San Antonio. June 15, 2007.
- "Assessing the Emotional and Behavioral Aspects of TMD: Simple, Reliable, and Multilingual Methods", FDI, New Delhi, India, September 13, 2004.
- "Evolving Standards for the Differential Diagnosis of TMD", with Yoly Gonzalez DDS. Oral Diagnostic Sciences Seminar Series, University at Buffalo, April 1, 2004.
- "Biobehavioral Treatment Concepts for Chronic Pain", with Alan Glaros, PhD. Visiting Lecturer Series, School of Dentistry, Malmö, Sweden, June 2003.
- "Role of Functional Limitation in Chronic Pain Research", Clinical Research Training Seminar Series, NIDCR Office of Education and Office of the Clinical Director, National Institutes of Health, Bethesda, MD, October 6, 2000.
- "Biobehavioral Assessment and Treatment of Chronic Pain", Behavioral Healthcare Network (inservice), Buffalo, May 24, 2000.
- "TMD-related Disability and Chronic Pain", Oral Diagnostic Sciences Seminar Series, University at Buffalo, October 21, 1999.
- "The Measurement of TMD-related Disability", Oral Biology Guest Lecturer Series, University of Michigan, September 23, 1999.
- "Biobehavioral Assessment of Chronic TMD-related Pain", Karolinska Institute Orofacial Pain Seminar Series, (One-day teaching seminar) Linköping, Sweden, September 2, 1999.
- "Rasch Modeling and Temporomandibular Disorder Disability", The UDS-MR Annual Conference 1999, Center for Functional Assessment Research, University at Buffalo, July 18, 1999.
- "Temporomandibular Disorders: Concepts for Evaluation and Diagnosis," Rochester Dental Society, February 22, 1995.
- "History and Clinical Examination for TMD," The Current Treatment and Management of Temporomandibular Disorders, University of Toronto, October 20, 1994.
- "Problem-based Learning for Differential Diagnosis," Update on Temporomandibular Disorders, UB School of Dental Medicine Continuing Education, November, 1992.
- "Classification of Temporomandibular Disorders," Science Transfer Seminar, 69th General Session of the IADR, Acapulco, Mexico, April 18, 1991.

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- "What's Hot and What's Not in Diagnosis of Temporomandibular Disorders," School of Dental Medicine, SUNY-Buffalo, and the Eighth District Dental Society. Norman Mohl and Richard Ohrbach. March 22, 1989.
- "Stimulation Produced Analgesia," Department of Anesthesiology, UCLA School of Medicine. March 14, 1986.
- "Myofascial Pain," Department of Anesthesiology, UCLA School of Medicine. February 21, 1986.
- "Management Considerations: Escalation of Therapy," TMJ Symposium, Wilford Hall Medical Center. May 23, 1985.
- "Splint Therapy for TMJ Disorders," TMJ Symposium, Wilford Hall Medical Center. May 22, 1985.
- "Occlusion: Relationship to TMJ Disorders," TMJ Symposium, Wilford Hall Medical Center. May 20, 1985.
- "Internal Derangements of the TMJ," TMJ Symposium, Wilford Hall Medical Center. May 20, 1985.
- "Multi-disciplinary Treatment Approaches," Department of Behavioral Medicine, Wilford Hall Medical Center. April 30, 1985.
- "A Multi-disciplinary Approach to TMJ Management in a Hospital Setting," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. April 19, 1985.
- "Splint Therapy: A Critical Overview," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. April 12, 1985.
- "Masticatory Muscle Hyperactivity," Department of Behavioral Medicine, Wilford Hall Medical Center. April 2, 1985.
- "Internal Derangements: Treatment Correlates," Department of Behavioral Medicine, Wilford Hall Medical Center. March 19, 1985.
- "Occlusal Factors in TMJ Disorders: A Historical Perspective and Recent Trends," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. February 1, 1985.
- "Internal Derangements: Evaluation and Non-surgical Management," Department of Physical Therapy, Wilford Hall Medical Center. September 25, 1984.
- "Occlusion Concepts and TMJ Disorders," General Dentistry Residency, Wilford Hall Medical Center. September 18, 1984.
- "Splint Therapy for TMJ Disorders," TMJ Symposium, Wilford Hall Medical Center. May 24, 1984.
- "The Acute TMJ Patient," TMJ Symposium, Wilford Hall Medical Center. May 23, 1984.
- "A Multi-disciplinary Approach to TMJ Management in a Hospital Setting," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. April 13, 1984.
- "Management of the Acute TMJ Patient," Dunn Dental Clinic, Wilford Hall Medical Center. April 10, 1984.
- "Critical Overview of Splint Therapy," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. April 6, 1984.
- "Occlusal Factors in TMJ Disorders: A Historical Perspective and Recent Trends," Department of Oral and Maxillofacial Surgery, University of Texas at San Antonio. January 27, 1984.

"Temporomandibular Disorders: Philosophy, Diagnosis, and Treatment," Dental Clinic, Randolph AFB, Texas. November 17, 1983.

"The Pathophysiology of Temporomandibular Disorders," Department of Behavioral Medicine, Wilford Hall Medical Center. September 20, 1983.

"Splint Therapy for TMJ Problems," TMJ Symposium, Wilford Hall Medical Center. May 26, 1983.

"The Acute TMJ Patient," TMJ Symposium, Wilford Hall Medical Center. May 25, 1983.

"Internal Derangements of the Temporomandibular Joint," Tokyo Medical Dental University. August 7, 1982.

"Adjunctive Physical Therapy for Patients with TMJ/Occlusal Problems," Dental Staff, Yokota AB, Tokyo, Japan. September 16, 1981.

"Occlusal Therapy: Case Presentation," Dental Staff, Yokota AB, Tokyo, Japan. August 5, 1981.

"Headache as Manifestation of TMJ Dysfunction," Hospital Staff, Yokota AB, Tokyo, Japan. August 5, 1981.

"Occlusion - Physiology and Therapeutic Considerations," Dental Staff, Yokota AB, Tokyo, Japan. June 10, 1980.

"Hypnosis in Dentistry," Dental Staff, Yokota AB, Tokyo, Japan. December 8, 1978.

CONTINUING EDUCATION (Meetings/Courses/Workshops)

(only meetings since 1990 are listed)

Drinnan Symposium. TMD, September 27, Buffalo, NY.

Consortium for Orthodontic Advances in Science and Technology: Neuro-Musculo-Skeletal Interactions in Health and Disease. October 19-21, 2012. Chapel Hill, North Carolina.

Center for Neurosensory Disorders Symposium. October 18, 2012. University of North Carolina-Chapel Hill.

EACD 2012 – Pain and Dysfunction: an Update on Decision-making. Sept 6-8, 2012. Paris, France.

Satellite Meeting in Orofacial Pain and TMD, June 24-25, 2012. São Paulo, Brasil.

International Association for Dental Research, June 20-23, 2012. Foz do Iguaçu, Brasil.

International Association for Dental Research, March 16-19, 2011. San Diego, CA.

International Association for Dental Research, July 2010, Barcelona, Spain.

Trauma and the Body: The Theory and Practice of Sensorimotor Psychotherapy. Joseph Gillan. UB School of Social Work. April 13, 2010 (6 hrs)

2010 ODS Research Seminar Series: Dr Michael Hatton. March 25, 2010.

Journal of Oral Rehabilitation Colloquium on Oral Rehabilitation. October 8-12, 2009. Siena, Italy.

NIH Pain Consortium Annual Meeting. May, 2009. Bethesda, MD.

International Conference on Outcomes Measurement: Behavioral Health Measurement. Hosted by NIH, NIDA, and OBSSR, and sponsored by SAMHSA, Chestnut Health Systems. Included a tutorial on the Assessment Center for PROMIS. September 10-13, 2008. Bethesda MD.

International Association for the Study of Pain, 12th World Congress on Pain, August 17-22, 2008, Glasgow, UK.

Changing Face of Pain Management Programs, Official Satellite meeting of the 12th World Congress on Pain. August 14-15, 2008. Liverpool, UK

International Association for Dental Research, July 1-5, 2008. Toronto, CA.

TMJ Association Meeting. Jointly sponsored by NIDCR. Bethesda MD June 1-3, 2008.

Mplus Short Course: Exploratory Factor Analysis, Confirmatory Factor Analysis, and Structural Equation Modeling for Continuous Outcomes. Linda Muthén and Bengt Muthén. Johns Hopkins University School of Public Health. March 18-19, 2008. Baltimore, MD.

TMD and Orofacial Pain: Making Sense of the Confusion. Henry Gremillion. Eighth District Dental Society, December 7, 2007. Buffalo, NY.

The Body Keeps Score: Integration of Body and Mind in the Treatment of Traumatized People; Bessel van der Kolk. May 11, 2007. Amherst, NY.

International Association for Dental Research, March 2007. New Orleans, Louisiana.

Defining Principles for Curriculum Change, University at Buffalo, Dec 1, 2006, Buffalo NY.

TMJ Association Meeting, Sept 11-12, 2006, Bethesda, MD.

American Association for Dental Research, March 2006. Orlando, FL.

International Association for the Study of Pain, 11th World Congress on Pain, August 21-26, 2005. Sydney, Australia.

4th International Conference on Orofacial Pain and Temporomandibular Disorders. August 27-28, 2005. Sydney, Australia.

An Introduction to Rasch Measurement: Theory and Applications. Everett Smith, Jr, and Richard Smith. April 9-10, 2005. Montreal, Canada.

International Association for Dental Research, March 2005. Baltimore, MD.

Oral Medicine: Approaching the Next Decade, School of Dental Medicine, University at Buffalo, October 15, 2004, Buffalo NY.

Research Community Forum: What Investigators and Research Staff Need to Know about Human Research Protections. July 15, 2004, Roswell Park Cancer Institute, Buffalo, NY.

International Association for Dental Research, March 2004, Honolulu, Hawai'i.

International Association for Dental Research, June 2003. Goteborg, Sweden.

Workshop on Rasch Modeling, Mike Lineacre, University of Illinois, October, 2002, Chicago IL.

International Association for the Study of Pain, 10th World Congress on Pain, August 23-27, 2002, San Diego, California.

International Association for Dental Research, June 2002. San Diego, California.

The Role of Imaging in the Differential Diagnosis of Head and Neck Diseases. University at Buffalo and Physician's Imaging Center. Nov 3, 2001. Buffalo, NY.

International Association for Dental Research, June 2001. Chiba, Japan.

Dentistry's Future: The Distinguished Professor in Dentistry Symposium, University of Washington, Seattle, WA, May 24-24, 2001.

American Association for Dental Research, March 2001. Chicago, IL

American Pain Society Annual Meeting, Atlanta GA, November 2-5, 2000.

Diagnosis and Treatment of Neuropathic Pain, Beth Israel Medical Center, Rochester, NY October 21, 2000.

Temporomandibular Joint Disorder/Disease Patient Conference 2000, Ernest Witebsky Center for Immunology, Buffalo, NY August 4-6, 2000.

Workshop on Rasch Modeling, Mike Lineacre, University of Chicago, Chicago, June, 2000.

International Association for the Study of Pain, 9th World Congress on Pain, August 23-27, 1999, Vienna, Austria.

Refresher Courses on Pain, International Association for the Study of Pain, August 22, 1999, Vienna, Austria.

Workshop on Rasch Modeling, Ben Wright, Center for Functional Assessment Research, University at Buffalo, July 19, 1999, Buffalo NY.

The UDS-MR Annual Conference 1999: Interpreting and Understanding Medical Rehabilitation Outcomes and Cost Effectiveness Data, Center for Functional Assessment Research, University at Buffalo, July 17-18, 1999, Buffalo NY.

Orofacial Pain: From Basic Science to Clinical Management. Transfer of knowledge in pain research to teaching in dentistry. AUTOPP. March 10, 1999, Vancouver, British Columbia.

International Association for Dental Research, 77th General Session. Vancouver, British Columbia. March 10-13, 1999.

Summer Institute on Longitudinal Methods. David Rindskopf and Linda Collins. Penn State University. May 18-20, 1998.

Toward a Science of Consciousness, Tucson III, April 27 - May 2, 1998, Tucson, AZ.

TMD and Orofacial Pain: Case-based Problem Solving. Glenn Clark. School of Dental Medicine, University at Buffalo. April 3-4, 1998, Buffalo NY.

American Association for Dental Research, 27th Annual Meeting. March 4-7, 1998, Minneapolis, MN.

Chronic Pain, Pharmacology, and the Dentist. Robert Merrill and Glenn Clark, directors. UCLA School of Dentistry. September 27-28, 1997, Los Angeles, CA.

Summer Institute on Longitudinal Methods. Joseph Schafer and Stephen Raudenbush. Penn State University. May 19-21, 1997, State College PA..

International Association for Dental Research, 75th General Session. March 19-23, 1997, Orlando, FL.

International Association for the Study of Pain, 8th World Congress on Pain, Canada. August 17-22, 1996, Vancouver, British Columbia.

Meetings of the Mind: Integrating New Discoveries in Developmental Psychobiology with Psychotherapy. The Seattle Psychoanalytic Society and The Department of Psychiatry and Behavioral Sciences, University of Washington. February 9 & 10, March 8 & 9, April 12 & 13, May 10 & 11, Seattle WA.

International Association for Dental Research, 74th General Session. CA. March, 1996, San Francisco CA.

Short-Term Dynamic Psychotherapy. Leigh McCullough-Valliant, PAWNY, May 19, 1995, Buffalo NY.

American Association for Dental Research, 24th General Session. March, 1995, San Antonio, TX.

Healing Sexual Trauma--A Solution-Focused Approach. Yvonne Dolan, Bigler Training Institute, November 17, 1994, Buffalo, NY.

American Pain Society, Annual Meeting. November 10-13, 1994, Miami FL.

The Current Treatment and Management of Temporomandibular Disorders. University of Toronto, October 20-21, 1994, Toronto.

Mindfulness Meditation for Stress Management: A Training Program for Health Care Professionals. Jon Kabat-Zin, Omega Institute, June 26 - July 3, 1994, Rhinebeck NY.

Couples in Treatment: Enhancing Intimacy and Resolving Problems. Gerald Weeks, Psychological Association of Western New York, May 13, 1994, Buffalo, NY.

International Association for Dental Research, 72nd General Session. March 1994, Seattle, WA..

Cognitive Therapy for Personality Disorders. Jeffrey Young, Psychological Association of Western New York, October 8, 1993, Buffalo, NY.

Case Studies in Science. Office of Teaching Effectiveness, University at Buffalo, May 24-27, 1993, Buffalo, NY.

American Association for Dental Research, 19th General Session. March 11-15, 1992, Boston MA..

International Association for Dental Research, 69th General Session. April 17-21, 1991, Acapulco, Mexico.

Intensive Short-Term Dynamic Psychotherapy. James Schubmehl and Marvin Skorman, Rochester Institute for Short-Term Dynamic Psychotherapy, March 22, 1991, Buffalo, NY.

American Pain Society, Annual Meeting. October 25-28, 1990, St. Louis, Missouri.

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