

BSODR Plymouth 2017

Oral Presentations & Poster Sessions

Wednesday 6th September

Wednesday, September 6, 2017 02:00 PM-03:30 PM Roland Levinsky Theatre 2
Senior Colgate Heat 1

001 Periodontitis Severity Associated with Cardio-Renal Health in Renal Disease Patients.
Sharma, P.¹, Fenton, A.³, Sidhu, A.¹, Rahman, M.¹, Cockwell, P.², Ferro, C.², Chapple, I. L.¹,
Dietrich, T.¹

¹University of Birmingham, , ²University Hospital Birmingham

002 Mechanical Properties of Dental Composites Modified by Incorporation of Fluorapatite
Micro-rods.

Al-Taie, A.¹, Bubb, N.¹, Franklin, P.¹, German, M.², Wood, D. J.¹

¹School of Dentistry, University of Leeds, ²School of Dental Sciences, University of
Newcastle

003 Radiographic Estimation of Remaining Dentine Thickness in Carious Primary Molars.
Almutairi, W.¹, Douglas, G. V.¹, Lancaster, P.¹, Day, P. F.^{1,2}

¹University of Leeds, ²Community Dental Service, Bradford District Care NHS Foundation
Trust

004 Factors Related to Reducing Free Sugar Intake Among White Ethnic Adults: Barriers
and Facilitators.

Al Rawahi, S., Asimakopoulou, K., Newton, J. T.

King's College London Dental Institute

005 Is the sense of taste impaired in Sjogren's Syndrome patients?

Al-Ezzi, M. Y.¹, Khan, K.², Tappuni, A. R.¹

¹Queen Mary University of London, ²Blizard Institute

006 Dentists' Perceptions of Their Roles Influence Their Patient Referral Decisions.

Allen, Z.¹, Moles, D. R.¹, Nasser, M.¹, Richardson, J.¹

¹Plymouth University Peninsula Schools of Medicine and Dentistry

Wednesday, September 6, 2017 02:00 PM-03:30 PM Roland Levinsky 303
Senior Colgate Heat 1

007 Novel Resin-modified Glass Ionomer Cement for Repairing Defective Tooth-restoration
Complexes.

Al-Taee, L. A., Banerjee, A., Deb, S.

King's College London Dental Institute

008 The Impact of Dental Phobia on Care Planning: A Vignette Study.

Heidari, E., Banerjee, A., Andiappan, M, Newton, J. T.

King's College London Dental Institute

009 Quantification of Mineral Deposits on Root Caries Using Dental Varnish.

Mustafa, A. S., Tappuni, A. R., Davis, G., Mills, D., Baysan, A.

¹Queen Mary University of London

010 Spatially-resolved pH Evolution in Novel, Hybrid Self-Adhesive Composite and Glass Ionomer Materials Using Fluorescence Lifetime Imaging.

Boyes, V.¹, Festy, F.⁴, Abuljadayel, R.³, Watson, T.²

^{1,3,4} King's College London, ²King's College London Dental Institute

011 Periodontal Regeneration in a Rat Model Using Self-Assembling Peptides.

EL-Sayed, B.^{1,2}, EL-Zehery, R. R.², M. Ibrahim, F.², E. Grawish, M.², Kirkham, J.¹, El-Gendy, R.^{1,3}

¹School of Dentistry, University of Leeds, ²Faculty of Dentistry, Mansoura University, Egypt ³Faculty of Dentistry, Suez Canal University, Egypt

012 Characterisation and Preventive Effect of a Novel Bioactive Orthodontic Adhesive.

Aleesa, N. A.¹, Wong, F.², Hill, R. G.², Johal, A.¹

¹Barts and the London Dental Institute, ²Queen Mary University of London

**Wednesday, September 6, 2017 04:00 PM-05:15 PM Roland Levinsky Theatre 2
Senior Colgate Heat 2**

013 Antibacterial Properties and Molecular Biocompatibility of TiO₂-ZnO Nanocomposite Coatings for Dental Implants.

Danookdharree, U. F.¹, Besinis, A.¹, Tredwin, C.², Handy, R.¹

^{1,2,4}Plymouth University, ²Plymouth University Peninsula School of Medicine & Dentistry

014 Contribution of oral bacteria to *Candida* virulence and denture stomatitis.

Morse, D.¹, Wilson, M.¹, Smith, A.¹, Bradshaw, D. J.², Lewis, M.¹, Wei, X.¹, Williams, D. W.¹

¹Cardiff University, ²GSK Consumer Healthcare,

015 Tumour-stromal Crosstalk in Metastatic Lymph Nodes of Oral Cancer.

Pilborough, A. E., Lambert, D. W., Khurram, S.

University of Sheffield

016 A Novel, Injectable Hydrogel for Endodontic Antimicrobial Delivery.

Everett, E. P., Waddington, R., Paul, A., Sloan, A. J.

Cardiff University

017 Development and Evaluation of a Novel, Lipid-A Based Biosensor for Personalised and Predictive Periodontal Therapy.

Strachan, A.¹, Harrington, Z.¹, McIlwaine, C.¹, Jerreat, M.¹, Kilar, A.², Jackson, S.³, Foey, A.³, Zaric, S.¹

¹Plymouth University Peninsula School of Medicine & Dentistry ²University of Pecs, Hungary, ³ SoBHS, Plymouth University

**Wednesday, September 6, 2017 04:00 PM-05:15 PM Roland Levinsky 303
Senior Colgate Heat 2**

018 Flexural Properties of UDMA Dentures are Unaffected by Water Storage.

Alabdulla, I., German, M., Thomason, J.

Newcastle University

019 Protection Effects of Bioglass® and Pro-Argin® Layers Formed On Dentine

Mahmoodi, B., Wood, R., Cook, R.

University of Southampton

020 Notch signalling controls tooth mesenchymal stem cell activation.

Walker, J. V.², Zhuang, H.¹, Singer, D.², Tredwin, C.², Hu, B.²

¹Peking University, ²Plymouth University Peninsula School of Medicine & Dentistry

021 CD133 determines epithelial stem cell activation.

Singer, D.¹, Zhuang, H.^{1,2}, Tredwin, C.¹, Hu, B.¹

¹ Plymouth University Peninsula School of Medicine & Dentistry, ²Peking University, China

022 Organoid Models of Normal Human Salivary Glands.

Rahman, Z., Sherborne, C., Crawford, A., Claeysens, F., Bingle, C., Bingle, L.

University of Sheffield,

Wednesday, September 6, 2017 02:00 PM-03:30 PM Roland Levinsky Room 207

Junior Colgate

023 The attending adult: do they have parental responsibility for the paediatric patient?

Gohel-Andrews, K., Chaudhary, M & Davies, J.

Dental Institute, QMUL

024 Expression of Xenobiotic Metabolising Enzymes in Oral Mucosa and Tissue-Engineered Oral Mucosa Equivalents.

Slowik, K. M., Murdoch, C., Colley, H.

University of Sheffield

025 Identification of Novel Neuronal Roles in Oral Cancer Tumour Microenvironments.

Wallis, H., Kaewpitak, A., Bird, E., Hunter, K., Boissonade, F., Lambert, D. W.

University of Sheffield

026 Investigation of Prognostic Biomarkers of Periodontal Treatment.

Gill, T., Karim, B., Hughes, F. J.

¹King's College London

027 Continuous Sumatriptan Causes Increased Excitability in the Rat Trigeminal System.

Hall, J., De Felice, M., Boissonade, F.

The University of Sheffield

028 Epithelial activation by the novel fungal peptide toxin Candidalysin.

Tan, S., Richardson, J., Naglik, J.

King's College London

029 E-Cigarette Use: an Association with Smoking Cessation Motivation and Policy Support.

Kaczmarczyk, K.

University of Leeds

Wednesday, September 6, 2017 02:00 PM-04:30 PM Roland Levinsky Room 206

Unilever Poster Prize

Wednesday, September 6, 2017 02:00 PM-03:30 PM Roland Levinsky Theatre 1

OMIG Symposium

Thursday 7th September

Thursday, September 7, 2017 09:30 AM-10:30 AM Roland Levinsky Room 206 Stem Cell Biology and Neuroscience Orals

030 Expression of periodontal ligament-associated markers in oral and extra-oral mesenchymal stem cells.

Kaur, M., Garna, D., Hughes, F. J., Ghuman, M.
King's College London

031 Aspirin Induces Osteogenic Differentiation of Dental Pulp Stem Cells.

Rankin, R.², Lundy, F. T.², Schock, B.², Zhang, S.², About, I.¹, Linden, G.², Irwin, C.², El Karim, I. A.²

¹Faculté d'Odontologie, University of d-Aix Marseille ²Queen's University Belfast

032 Altered brain activity in a pre-clinical model of cephalic pain.

De Felice, M., Kennerley, A., Das, D., Boissonade, F.
University of Sheffield

033 TRPV2 mediates mechanical stress-induced IL-8 release in odontoblasts.

Lundy, F. T.², About, I.¹, Curtis, T.², Linden, G.², Irwin, C.², El Karim, I. A.²

¹Faculté d'Odontologie, University of d-Aix Marseille, France ²Queen's University Belfast

Thursday, September 7, 2017 09:30 AM-10:30 AM Roland Levinsky Room 207 Dental Education Research Orals

034 Oral Surgery Trainee Perspective on Surgical Abilities.

Cho, H., Ahmed, B., Murphy, M.
Birmingham Dental Hospital

035 Issues of Work-Related Musculoskeletal Pain Amongst Dental Students.

Altemimi, A.
University of Leeds

036 Prospective Austrian progress test pilot project in undergraduate dental education

Kirnbauer, B.¹, Jakse, N.¹, Rugani, P.¹, Egger, R.²

¹Medical University Graz, ²Karl-Franzens University, Austria

037 Challenging the Conventional Curriculum: An Inter-Professional Undergraduate Dental Programme.

McIlwaine, C., Zahra, D., Belfield, L. A., Brookes, Z., Collingwood, J., Potterton, R., Zaric, S.

Plymouth University Peninsula Schools of Medicine and Dentistry

Thursday, September 7, 2017 09:30 AM-10:30 AM Roland Levinsky Room 303 Oral Medicine and Pathology Orals

038 Isolation and characterisation of oral cancer stem cells.

Al-Magsoosi, M. J., Lambert, D. W., Whawell, S. A.
University of Sheffield

039 Novel tissue-engineered constructs to examine the role of fibroblast-derived extracellular matrix in oral cancer progression.

Harding, A. L., Lambert, D. W., Colley, H.
The University of Sheffield

040 Functional expression of class B scavenger receptors by oral keratinocytes: implications for oral squamous cell carcinoma.

Chasib Baidhani, N., Colley, H., Hunter, K., Murdoch, C.
University of Sheffield

Thursday, September 7, 2017 10:30 AM-04:30 PM Roland Levinsky Crosspoint POSTERS

041 Chemical Analysis of Resin Monomer TEGDMA Stored in Aqueous Environment.

Mulligan, S., Moharamzadeh, K., Walker, H., Kakonyi, G., Thornton, S., Fairburn, A., Burrell, M., Martin, N.
University of Sheffield

042 Antimicrobial Properties of Dental Acrylics Containing Ag-FAU Zeolite.

Rai, S., Tosheva, L., Liauw, C., Verran, J., Malic, S.
Manchester Metropolitan University

043 Chemical analysis of resin monomers released into the environment via urine and saliva.

Mulligan, S., Kakonyi, G., Thornton, S., Moharamzadeh, K., Fairburn, A., Martin, N.
University of Sheffield

044 Effect of Bioactive Glass Addition on the Characteristics of Glass Ionomer Cements.

Mannaa, S.², Shahid, S.², Karpukhina, N.¹

¹Barts and The London School of Medicine and Dentistry, ²Queen Mary University of London,

045 Peri-Implantitis: Oral Pathogenic Anaerobes Attach Directly to Dental Metallic Surfaces.

Haury, C.¹, Wescott, A.², Beeby, D.², Austin, B.², Jones, Q.¹, Nishio Ayre, W.¹, Waddington, R.¹, Sloan, A. J.¹

¹Cardiff University, ²Renishaw PLC

046 Application of a graphene nanocoating for the management of microleakage and dentine hypersensitivity.

Besinis, A., Islam, K., Gombos, Z., Handy, R., Awan, S.
University of Plymouth

047 Dentine Interactions of Hybrid Self-adhesive Composite/GIC Using Advanced Optical Imaging.

Abuljadayel, R.^{1,3}, Festy, F.¹, Andiappan, M.¹, Boyes, V.¹, Watson, T.²

¹King's College London, ²King's College London Dental Institute, ³King Abdul-Aziz University, Saudi Arabia

048 The environmental impact of dental materials: A sociological study.

Mulligan, S., Gibson, B., Kakonyi, G., Moharamzadeh, K., Thornton, S., Fairburn, A., Martin, N.
University of Sheffield

049 The oral microbiome in periodontally healthy rheumatoid arthritis patients.

Lopez-Oliva, I.², Paropkari, A. D.¹, Serban, S.², Yonell, Z.², Sharma, P.², de Pablo, P.², Raza, K.², Chapple, I. L.², Dietrich, T.², Grant, M. M.², Kumar, P. S.¹

¹Ohio State University, ²University of Birmingham, ³Rheumatology Research Group, Institute of Inflammation and Ageing, University of Birmingham

050 Unravelling the Association Between the Denture Microbiome and Bacterial Pneumonia.

Twigg, J. A.¹, Williams, D. W.¹, Wilson, M.², Wise, M.², Lees, J.¹

¹Cardiff University, ²University of Wales College of Medicine,

051 Assessment of *Lactobacillus plantarum* Biosurfactants to Fight Endodontic Infection

Hashim, Z., Wilson, M., Maillard, J., Waddington, R.

Cardiff University

052 *In Vitro* Inhibition of Oral Biofilm Development by Stannous Fluoride.

Luo, T.³, Zsiska, M.¹, Circello, B. T.², Eisenberg, M.³, Gonzalez-Cabezas, C.³, Foxman, B.³, Marrs, C.³, Rickard, A. H.³

¹P&G Professional Oral Health, Crest Oral-B, ²Procter & Gamble Company, ³University of Michigan

053 Monitoring Destabilization of Oral Biofilms Developed in a Swinnex System.

Shin, J.⁶, Samarian, D.⁷, Amorin Daep, C.¹, Jakubovics, N. S.², Fenno, J. C.⁴, Kapila, Y.³, Rickard, A. H.⁵

¹Colgate-Palmolive, Co., ²Newcastle University, ³University of California San Francisco, ⁴University of Michigan, ⁵University of Michigan, ⁶University of Michigan School of Dentistry, ⁷University of Michigan School of Public Health

054 Developing a 3D Oral Mucosal Model for Denture Stomatitis Infection.

Gould, S. J.¹, Upton, M.², Belfield, L. A.¹, Salih, V.¹

¹Plymouth University School of Medicine and Dentistry, ²SoBHS Plymouth University

055 P2X7R genotype affects transglutaminase-2 export: Implications for immune related diseases.

Griffiths, R., Dewitt, S., Aeschlimann, P., Jones, A., Aeschlimann, D.

Cardiff University

056 Antifungal Potential of Essential Oils and Development of an *Ex Vivo* Model for Oral Candidosis.

Serra, E.², Alraies, A.¹, Nishio Ayre, W.¹, Hidalgo-Bastida, A.², Verran, J.², Sloan, A. J.¹, Malic, S.²

¹Cardiff University, ²Manchester Metropolitan University

057 Periodontal inflammatory burden in patients with Type 1 Diabetes Mellitus.

Jimenez, C., Robertson, D., Hodge, P., Lappin, D.

University of Glasgow

058 *In vitro* analysis of Keratin K2 function in protecting against carcinogenesis.

AlDehlawi, H.^{1,2}

¹QMUL, ²Barts and the London School of Medicine and Dentistry

059 P16 IHC is Insufficient for Assessment of HPV Status in Oral Dysplasia.

Hendawi, N. B.^{1,2}, Allsobrook, O.¹, Khurram, S.¹, Bolt, R.¹, Hunter, K.¹

¹University of Sheffield, ²University of Benghazi

060 Brushing with Toothpaste Containing 5% CSPPS Reduces Dental Plaque.

Hall, C.², Hughes, A.², Mason, S. C.¹

¹GlaxoSmithKline, ²GSK Consumer Healthcare

061 Choice of Toothpaste Surfactant System Influences Plaque Regrowth.

Hall, C.², Jain, R.², Hughes, A.², Moore, F.³, Mason, S. C.¹

¹GlaxoSmithKline, ²GSK Consumer Healthcare, ³Intertek CRS

062 Reducing Dentinal Hypersensitivity Improves Oral Health-Related Quality of Life.

Hall, C.¹, Shaw, D.³, Sufi, F.¹, Mason, S. C.¹, Maclure, R.², Holt, J.²

¹GlaxoSmithKline, ²Intertek Life Sciences, ³InVentiv Health

063 CSPS Toothpaste Does Not Consistently Improve Gingival Health Versus Placebo.

Hall, C.², Mason, S. C.¹, Butler, A.², Bosma, M.², Hughes, A.², Kakar, K.³, Kakar, A.³

¹GlaxoSmithKline, ²GSK Consumer Healthcare, ³Global Health Research Group

064 Daily Brushing with Toothpastes Helps Maintain Gingival Health.

Hall, C.², Butler, A.², Mason, S. C.¹, Hughes, A.², Mahesh, M.³, Maheshwari, R.³

¹GlaxoSmithKline, ²GSK Consumer Healthcare, ³Dr Rupali's Dental Research Centre, India

065 Magnification Loupes Improve Accuracy of Stain and Plaque Assessments.

Maclure, R., Cullen Mahon, J., Speed, E., Rimmer, P., Moore, F., Howarth, E.

Intertek Life Sciences

066 Evaluating a Novel Hypersensitivity Relieve Gel Being Applied Before Bleaching.

Bamidis, E. P., Kunzelmann, K.

Hospital of the Ludwig-Maximilians-University, Germany

067 E-cadherin Inhibition Effects on Oral Squamous Cell Carcinoma Metastatic Genes.

Al-Mudhani, A. S.

University of Manchester

068 Mesenchymal Cell Function in Salivary Gland Regeneration.

Davies, J., Hu, B., Tredwin, C.

Plymouth University Peninsula School of Medicine & Dentistry

069 Mesenchymal stem cell heterogeneity regulates incisor growth *in vivo*.

Sabalic, M., An, Z., Sharpe, P.

King's College London Dental Institute

070 Oxidative Stress Variations in Dental Pulp Progenitor Cell Ageing/Regenerative Potential.

Alaidaroos, N. Alraies, A.² Sloan, A. J.¹ Waddington, R.³ Moseley, R.

Cardiff University

071 Comparison of Secretomes Derived from Periodontal Ligament and Bone Marrow Mesenchymal Stem Cells.

Ariffin, F.^{1,2}, Cooper, P.¹, Scheven, B. A.¹

¹University of Birmingham, ²Universiti Teknologi MARA, KL, Malaysia

072 Mechanical strain affects mesenchymal stem cell fate.

Grayson, P.¹, Yang, K.², Belfield, L. A.¹, Gao, Y.², Tredwin, C.¹, Hu, B.¹

¹Plymouth University Peninsula Schools of Medicine & Dentistry, ²Capital Medical University, Beijing, China

073 DPSC Derived Neurons Functionally Express Sensory Neuron Specific Receptor (MRGX1).

McMillan, H., Curtis, T., Lundy, F. T., El Karim, I. A.

School of Medicine Dentistry and Biomedical Sciences Queen's University of Belfast

074 What are the reasons why patients may consult a general medical practitioner when experiencing a dental problem? A systematic review.

Cope, A. L.², Butt, K. G.², Chestnutt, I.¹

¹Cardiff University, ²Cardiff and Vale University Health Board

075 Dental Decision Making Influencing Factors. A Systematic Map.

Plessas, A.¹, Nasser, M.¹, Bernardes Delgado, M.¹, Hanoch, Y.², Moles, D. R.¹

¹ Plymouth University Peninsula Schools of Medicine & Dentistry, ²Plymouth University

076 Leadership, Management and Dentists – A Systematic Narrative Review.

Hanks, S.

Plymouth University Peninsula Schools of Medicine and Dentistry

077 Investigating the Decision-Making Practices of Specialists in Paediatric Dentistry and Endodontics: A Self-Administered Postal Survey.

Gartshore, L.^{1,2}, Fox, K.², Albadri, S.², Jarad, F.²

¹University of Liverpool, ²Liverpool School of Dentistry

078 Income Inequality Influences Adolescent's Oral Health-Related Quality of Life.

Alwadi, M., Vettore, M. V.

University of Sheffield

079 Exploring the relationships between knowledge- and skills-based assessment performance in Dental Therapy and Hygiene students as a function of prior qualifications.

Zahra, D., Belfield, L. A., McIlwaine, C., Ali, K., Bennett, J., Zaric, S.

Plymouth University Peninsula Schools of Medicine & Dentistry

080 Screening for chronic, non-communicable diseases (NCDs) in applied healthcare practice.

Yonell, Z., Yahyouche, A., Jalal, Z., Dietrich, T., Chapple, I. L.

University of Birmingham,

081 Enamel Erosion Protection and Repair *in vitro* by Fluoride Dentifrices.

Fowler, C. E.¹, brown, A.², Willson, R.³

¹GlaxoSmithKline, ²Lucideon Ltd, ³Modus Laboratories

082 Improved Temperature Stability for Accurate In-Vitro De/Remineralisation ISE Studies.

Ferizoli, B.², Anderson, P.², Lynch, R. J.¹

¹GlaxoSmithKline, ²Queen Mary University of London

083 Cariostatic Effect of Riva Star vs Conventional Silver Diammine Fluoride.

Huang, W., Anderson, P., Shahid, S.

Queen Mary University of London

084 Autofluorescent properties of bovine teeth during demineralisation – A Pilot Study.

Desmons, S.², Hyde, J.², Naseer, Z.², Falgayrac, G.³, De Josselin de Jong, E.¹, Higham, S.², Komarov, G. N.², Burnside, G.², Cooper, L.²

¹Inspektor Research Systems BV, ²University of Liverpool, ³ Universite de Lille II, France

085 Hydrothermal Synthesis and Physicochemical Analysis of Fluorapatite and Hydroxyapatite Coatings.

Marie, A. K.^{1,3}, Katsikogianni, M.², Do, T.¹, Wood, D. J.¹

¹University of Leeds, ²Faculty of Life Sciences, ³University of Mosul, Iraq

086 Complications Associated with Full-Arch Implant Supported Protheses.

Krezel, J. D.¹, Adams, R.², Thomas, D. W.²

¹Barts and the London School of Medicine and Dentistry, ²Cardiff University Dental School

087 Case Definition in Chronic Periodontitis: the Reliability of Half-Mouth Protocols.

Didilescu, A. C., Costea, R., Cristache, C.

Carol Davila UMP, BuCharest, Romania

088 Effect of an Intensive Weight Loss Programme on Gingival Inflammation.

Suvan, J.¹, Finer, N.², Buti, J.¹, D'Aiuto, F.¹

¹UCL Eastman Dental Institute, ²UCL

**Thursday, September 7, 2017 11:30 AM-01:00 PM Roland Levinsky Room 206
Dental Materials VOCO Orals**

090 Characterising early erosive lesions in polished and natural human enamel.

Mylonas, P.¹, Austin, R.¹, Moazzez, R.², Joiner, A.³, Bartlett, D.¹

¹King's College London, ²King's College London Dental Institute, ³Unilever Oral Care

091 Biocompatibility and adhesion of silver nano-coating on titanium dental implants

¹Salaie, R. N., ¹Besinis, A., ¹Le, H., ²Tredwin, C., ¹Handy, R.

Plymouth University, ² Plymouth University Peninsula Schools of Medicine & Dentistry

092 Characterization of a Novel Strontium Containing Bioactive Glass based Calcium Phosphate Cement.

D'Onofrio, A., Rawlinson, S. C., Shahdad, S., Kent, N., Hill, R. G.

Queen Mary University of London

093 *In Vitro* Oral Biofilm Model to Assess the Efficacy of Antimicrobial Additives to Dental Restorative Materials.

Elmanaseer, W., Hector, M., Edwards, D.

University of Dundee

094 Electrospun membranes with osteogenic and antimicrobial properties for orthopaedic and dental surgery.

Paterson, T. E.¹, Shi, R.², Tian, J.², Wilcock, C.¹, Tammas-Williams, S.¹, Ortega Asencio, I.¹, Li, Z.², Hatton, P. V.¹

¹University of Sheffield, ²Chinese Academy of Sciences

**Thursday, September 7, 2017 11:30 AM-01:00 PM Roland Levinsky Room 303
PER-GSK MINTIG Orals**

095 Silver nanoparticles doped carbon nanotube–hydroxyapatite composites: biocompatibility and antibacterial property investigation.

Natesan, K.¹, Besinis, A.¹, Le, H., Handy, R.¹, Tredwin, C.²

¹Plymouth University, ²Plymouth University Peninsula School of Medicine & Dentistry, ³University of Derby

096 Effects of Chitosan on Remineralisation of Enamel Lesions *in vitro*.

Zhang, J.², Boyes, V.², Festy, F.², Lynch, R. J.¹, Watson, T.³, Banerjee, A.³

¹GlaxoSmithKline, ²King's College London, ³King's College London Dental Institute

097 Mathematical, numerical and biomechanical analysis using finite element methods (FEM) of mandible after treatment with bone substitute materials and loading with implant-supported prostheses.

Gurzawska, K.¹, Kozakiewicz, M.², Gradzki, R.³, Swiniarski, J.³

¹Birmingham Dental Hospital and School, University of Birmingham, ²Medicine University of Lodz Poland, ³Technical University of Lodz, Poland

098 Hierarchical Biomineralization for Hard Tissue Regeneration.

Elsharkawy, S., Al-Jawad, M., Tarakina, N., Anderson, P., Mata, A.

Queen Mary University of London

099 Nanohydroxyapatite Seeded Crystal Growth Determined in a Novel Steady-State Assay.

Whitworth, S., Davies, R. P., Wood, D. J., Kirkham, J.

University of Leeds

100 Understanding the effects of tooth brushing using an abrasive dentifrice on enamel.

Baig, M.², Cook, R.², Dennington, S.², Pratten, J.¹, Wood, R.²

¹GlaxoSmithKline, ²University of Southampton

**Thursday, September 7, 2017 11:30 AM-01:00 PM Roland Levinsky Theatre 1
NIHR CRN Methods Symposium**

Friday 8th September

Friday, September 8, 2017 09:30 AM-11:00 AM Roland Levinsky Theatre 2 Pathogenesis of Periodontal Diseases Orals

101 Prolonged LPS treatment modulates crosstalk between monocytes and osteoclast progenitors via Hyaluronan.

Grayson, P., Zaric, S., Tredwin, C., Hu, B., Belfield, L. A.

Plymouth University Peninsula School of Medicine & Dentistry

102 Differentiation of tongue and periodontal microbiota in health and periodontitis.

Stephen, A.², Gonzales-Marin, C.², Gillam, D. G.², Burnett, G.¹, Bradshaw, D. J.¹, Allaker, R.³

¹GSK Consumer Healthcare, ²Queen Mary University of London,

103 Microbiomes associated with bovine periodontitis and oral health.

Borsanelli, A. C.², Lappin, D.¹, Viora, L.¹ Bennett, D.¹, King, G.¹³, Dutra, I.², Riggio, M.¹

¹University of Glasgow, ²Universidade Estadual Paulista Julio de Mesquita Filho,

104 Mesenchymal regulation of the Junctional Epithelium.

Lu, E., Ghuman, M., Hughes, F. J.

Kings College London

105 Assessing the effects of Hyperglycaemia and Lipopolysaccharide on Osteogenic Differentiation.

Al-Qarakhli, A., Sloan, A. J., Moseley, R., Waddington, R.

School of Dentistry, Cardiff University

Friday, September 8, 2017 09:30 AM-11:00 AM Roland Levinsky Room 206 Dental Materials 2

106 Manufacture of SLM-Enabled Electrospun Membranes for Bone and Cartilage Repair.

Santocildes Romero, M., Paterson, T., Abdelmoneim, D., Sidambe, A., Crawford, A., Hatton, P. V., Ortega Asencio, I.

University of Sheffield

107 3D-Printed Bone Scaffold in a Tissue Engineered Human Osteo-Mucosal Model.

Almela, T.², Brook, I.², Tayebi, L.¹, Moharamzadeh, K.²

¹Marquette University School of Dentistry, ²University of Sheffield

108 Hardness of Bioactive Glasses.

Hill, R. G., Al-Khayyat, F. N., Taha, A.

Queen Mary University of London

109 Analysis of Monomers Released from Resin-Modified Glass Ionomer Cements. (RMGICs).

Agha, A., Parker, S., Gong, L., Patel, M.

Queen Mary University of London

**Friday, September 8, 2017 09:30 AM-11:00 AM Roland Levinsky Room 303
Caries Prevention & Treatment**

111 A Novel method for simultaneous caries removal and remineralisation of dentine.

Herzog, D.¹, Festy, F.¹, Koller, G.¹, Watson, T.²

¹King's College London, ²King's College London Dental Institute

112 Cost-effectiveness of fissure sealants versus fluoride varnish in preventing dental caries.

Chestnutt, I.¹, Humphreys, I.², Chadwick, B.¹, Fitzsimmonds, D.²

¹Cardiff University, ²Swansea University

113 Obesity and Dental Caries in Young Children.

Paisi, M.¹, Kay, E. J.¹, Kaimi, I.², Witton, R.¹, Nelder, R.², Potterton, R.¹, Lapthorne, D.³

¹Plymouth University Peninsula School of Medicine & Dentistry, ²Plymouth City Council, ³Public Health England

114 Intervention to Prevent Oral Disease in High Risk Child Populations.

Erwin, J., Kay, E. J., Quinn, C., Taylor, A., Gude, A.

Plymouth University Peninsula School of Medicine & Dentistry

115 Don't Smile –Reaching At-Risk Adolescents- But Did The Message Stick?

Pavitt, S. H.¹, Boards, J. A.¹, Day, P. F.¹, O'Grady, A.¹, Collins, R.¹, Townsend, N.², Barber, S.¹, Kenny, K.¹, Owen, J.¹, Ramsdale, M.⁴, Zoltie, T.¹, Thompson, W.¹, Cooper, D.³, Patel, M.³, SMILE AIDER PPIE Forum¹

¹University of Leeds, ²Theatre of Debate, ³Batley Girls High School

**Friday, September 8, 2017 11:30 AM-01:00 PM Roland Levinsky Theatre 2
Periodontitis Orals**

116 Photobiomodulatory Effect of Low Level Light on Oral Fibroblasts.

Serrage, H.¹, Milward, M.¹, Cooper, P.¹, Palin, W.¹, Hadis, M.¹, Darch, O.²

¹University of Birmingham, ²Philips UK

117 Monitoring Salivary LPS Activity for Preventive, Participatory, Point-of-Care Periodontal Therapy.

Khorsandi, A.¹, Strachan, A.¹, Harrington, Z.¹, McIlwaine, C.¹, Jerreat, M.¹, Kilar, A.², Jackson, S.³, Foey, A.³, Fox, S.³, Zaric, S.¹

¹Plymouth University Peninsula School of Medicine & Dentistry, ²University of Pecs, Hungary ³SoBHS Plymouth University

118 Chronic periodontitis and decreased respiratory function: a prospective cross-sectional study.

Winning, L., Patterson, C., Cullen, K. M., Kee, F., Linden, G.

Queen's University, Belfast

119 Hypertension, Calcium Channel Blockers and Risk of Periodontitis.

Hon, J., Johnson-Idan, J., Sabbah, W., Hughes, F. J.

King's College London,

Friday, September 8, 2017 11:30 AM-01:00 PM Roland Levinsky Room 206
Oral Microbiology Orals

120 The Effect of Hydration on the Stability of Oral Plaque Morphology and Mechanics.
Pattam, J., Davrandi, M., Bozec, L., Spratt, D., Allan, E.
UCL Eastman Dental Institute

121 The impact of *Fusobacterium nucleatum* sub-species on health and disease.
Kuehne, S.¹, Dawson, W.^{1,2}, Sammons, R. L.¹, Milward, M.¹, Cooper, P.¹, Chapple, I. L.¹
¹University of Birmingham, ²School of Biosciences, University of Birmingham

122 Oral LPS: Macrophage subsets are differentially sensitive to endotoxin tolerance.
Foey, A.¹, Al-Shaghdali, K.¹, Durante, B.¹, Strachan, A.², Zaric, S.², Beal, J.³
¹ SoBHS Plymouth University, ²Plymouth University Peninsula School of Medicine & Dentistry, ³University of Plymouth

123 Oral cancer stimulated TNF α production and phenotypic transformation in macrophages.
Mehr Ghulam, U.¹, Al-Hussaini, A.^{2,1}, Griffiths, H.¹, Jones, A. V.¹, Wei, X.¹
¹Cardiff University, ²NHS

124 Activation of Toll-like Receptors by Putative FCGS Pathogens.
Loffill, E. A., Nile, C. J., Lappin, D., Bennett, D., Riggio, M.
University of Glasgow

Friday, September 8, 2017 11:30 AM-01:00 PM Roland Levinsky Room 303
Health Promotion and Health Services Research

125 The relationship between dietary acid intake, tooth brushing and dentine hypersensitivity.
O'Toole, S.¹, Bernabé, E.², Bartlett, D.²
¹King's College London, ²King's College London Dental Institute

126 Association between number of teeth and healthier food choices in older men.
Linden, G., McEvoy, C., Winning, L., Kee, F., Woodside, J.
Queen's University, Belfast

127 No Evidence that Vitamin D Causally Prevents Tooth Loss.
Haworth, S.¹, Dudding, T.¹, West, N.¹, Thomas, S.¹, Franks, P.^{2,3}, Timpson, N.¹
¹University of Bristol, ²Lund University, ³Harvard School of Public Health

128 How Can We Improve Dental Services for Children with Autism?
Thomas, N.^{2,1}, Blake, S.¹, Morris, C.¹, Moles, D. R.²
¹Exeter Medical School, ² Plymouth University Peninsula School of Medicine & Dentistry

129 Oral Care of Palliative Care Patients – Carers' and Relatives' Experiences.
Bernardes Delgado, M., Burns, L., Quinn, C.², Moles, D. R., Kay, E. J.
Plymouth University Peninsula School of Medicine & Dentistry

130 Sustainability in Dental Practice Using an Action Research Approach.
Grose, J., Mukono, R., Richardson, J., Nichols, A., Mills, I., Nasser, M., Moles, D. R.
Plymouth University Peninsula School of Medicine & Dentistry

Friday, September 8, 2017 11:30 AM-01:00 PM Roland Levinsky Theatre 1
NTIG Symposium: Hard Tissue Craniofacial Imaging