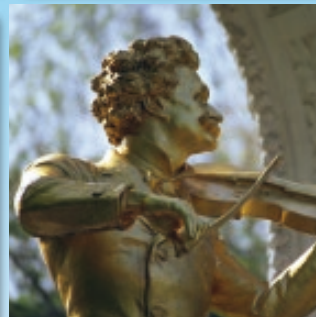


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PROGRAMME

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**CED-IADR/NOF
Oral Health Research Congress
September 20-23, 2017
Messe Wien Congress Centre
Vienna/Austria**

Promoting High-Quality Oral Health Research in Europe
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Scientific Programme

THURSDAY, September 21

THURSDAY, Sept. 21

Seq#: 10 Thursday, 21 September 2017, 11:30 hr – 12:30 hr Presenter at Poster
(Free Poster Viewing from 8:30 hr – 17:30 hr)
Poster Session, Poster Hall

Biocompatibility - Bioactivity

- 0077 Evaluation of Allergic Properties of Dental Materials.**
D. DALESSANDRI*, L. LAFFRANCHI, G. VATRI, G. ISOLA, F. ZOTTI, R. ZOTTI,
M. BINDI, I. TONNI, C. PAGANELLI
(University of Brescia, Gorle, Italy)
- S0078 Sublingual Administration of HEMA Enhances Antigen-Specific B Cell Responses to Co-Administered Ovalbumin and Streptococcus Mutans.**
A.K. ÖSTBERG*, S. ALIZADEHGHARIB, U. DAHLGREN
(Oral microbiology and Immunology, Institute of Odontology, Gothenburg, Sweden)
- 0081 Removal Efficacy and Cytotoxicity of a Calcium Hydroxide Paste Using N-2-Methyl-Pyrrolidone as a Vehicle.**
H. JANG, J.-L. BAE, K.-S. MIN*
(Conservative Dentistry, Chonbuk National University School of Dentistry, Jeonju-si, Korea)
- S0082 Biological Features of Bioactive Materials for Root-End Filling.**
L. KQIKU*, M. ROGULJIC, V. RAJIĆ, K. HANSCHO, E. FROEHLICH, I. MILETIC
(University Clinic of Dental Medicine and Oral Health, Division of Prosthodontics, Restorative Dentistry, Periodontology and Implantology, University of Graz, Graz, Austria)
- S0083 Human Dental Pulp Cell Response to Experimental Tricalcium Silicate Cement.**
X. LI*, M. PEDANO, K. VAN LANDUYT, Z. CHEN, B. VAN MEERBEEK
(KU Leuven (University of Leuven), Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), Dentistry, Leuven, Belgium)
- 0084 In Vitro Evaluation of Monomer Release From Fixed Retainers.**
F. JORDANA, C. PELOURDE, R. BATIONO, M.-J. BOILEAU, J. COLAT-PARROS*
(Dentistry Faculty, University of Bordeaux, Bordeaux, France)
- S0085 SOD1 and SOD2 May Compensate RNS in Aged Odontoblasts.**
G. RUSSO, H. ROGGENDORF*, F.-J. FABER, M. ROGGENDORF, J. NEUGEBAUER,
Y. KORKMAZ
(Operative and Craniomaxillofacial Surgery, University of Cologne, Cologne, Germany)
- S0086 The Effect of Titaniumdioxide-Nanotubes on Flowable-Composite's Physical, Mechanical, Antibacterial Properties.**
I. USTUNKOL CEYHAN, N. ATTAR*
(Hacettepe University, Ankara, Turkey)
- S0087 Rhus coriaria L. Binding Capacity to Mineralized versus Demineralized Dentin.**
R. SESEOGULLARI-DIRIHAN*, D. PASHLEY, A. TEZVERGIL-MUTLUAY
(Department of Cariology and Restorative Dentistry, University of Turku, Turku, Finland)



Holmgren, C:	0134	Ishizuka, S:	0293
Homolka, P:	0387	Isidor, F:	0549
Honkala, E:	0138, 0237	Isik, G:	0252
Honkala, S:	0138	Isik, A:	0254
Hoptroff, M:	0221	Isik, I:	0546
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Hotwani, K:	0232	Issever, H:	0403
Hovden, E S.:	0166	Ivanišević Malčić, A:	0134
Huck, O:	0076.3	Ivkovski, L A.:	0010
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Huh, Y:	0298	Izgi, S:	0592
Huh, Y:	0536		
Huhtela, O S.:	0321	J	
Huiberts, D:	0130	Jacinto, R D.:	0382
Huneke, A A.:	0473	Jackson, P:	0422
Husejnagic, S:	0533	Jacomine, L:	0307
Huth, S:	0283, 0311	Jagomagi, T:	0072
Hyde, T:	0302	Jagomägi, T:	0071
Høyvik, A:	0231	Jalali, R:	0021
		Jamsek, J:	0280
I		Jang, H:	0081
Ibrahim, A M.:	0452.1	Janjić, K:	0060, 0061, 0188
Idris, S:	0380	Jansson, L:	0214
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Ilie, N:	0276, 0396	Jensen, J:	0164
Imataki, R:	0090	Jessel, N:	0076.3
Imazato, S:	0222	Jevnikar, P:	0280, 0301, 0400
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Ince Kuka, G:	0424, 0425, 0565, 0583	Jo, E:	0536
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Inoue, G:	0518	Johannessen, A:	0017, 0156
Ionescu, A C.:	0453	Johansson, A:	0212
Irusta, S:	0076.3	Johansson, A:	0212
Ishizawa, M:	0506, 0507		



Flexural strength was measured in biaxial flexural strength test for all groups. Data were analyzed using one-way ANOVA and Kruskal Wallis followed by Tukey HSD and Mann Whitney U test ($\alpha=0.05$).

Results Corresponding to the XRD results; relative amount of the monoclinic phase content showed diversity among the groups due to aging. The lowest biaxial flexural strength mean was recorded in Supra.

Conclusions Hydrothermal aging of Y-TZP can cause significant transformation from tetragonal to monoclinic crystal structure, which results in a statistically significant decrease in the flexural strength of thin bars. Long term in vivo studies are insisted to evaluate whether the results presented are transmissible to the clinical situation.

0077

Evaluation of Allergic Properties of Dental Materials

D. Dalessandri¹, L. Laffranchi¹, G. M. Vatri⁴, G. Isola³, F. Zotti¹, R. Zotti², M. Bindi², I. Tonni¹, C. Paganelli²

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Objectives Individual allergic responses are commonly tested by simple patch tests. Medical societies or health authorities release many recommended or basic hapten lists. One can make reference to: European baseline series (European Society for Contact Dermatitis and the EECDRG); USA baseline series recommended by American Contact Dermatitis Society.

Every substance used in dentistry with a potentially dangerous chemical composition is restricted under REACH that establishes procedures for collecting and assessing information on the properties and hazards of substances. Have been reported frequent events of allergens causing allergic contact dermatitis (ACD) in dental personnel, in patients and also in students who come into contact with potentially allergenic materials in their training course. The aim of our research is to provide a literature review about the surveillance of contact allergies in dentistry over possible allergic reactions of dental materials that contain chemicals.

Methods We have analyzed only reviews in the common databases (Pubmed/US NLM Institutes of Health, The Cochrane Database, Google Scholar) using MeSH Terms allergic, allergies, dentistry haptens, surveillance, paired or in combination between them in the last 10 years.

Results We found 39 articles that reviewed possible allergic reactions to dental materials, 3 works considered all possible dental materials, 1 evaluated the health surveillance needed to prevent the spread of allergenic events compared to commonly haptens used in the dental field; however it was done only in relation to patient exposure and does not consider the exposure of the operators and/or students.

Conclusions Due to the rise in number of patients with allergies from different materials, dentists should have knowledge about documented allergies to known materials and thus avoid such allergic manifestations in the dental clinic; also dermatologists need to be aware of the newer allergenic materials used in dentistry in order to correctly manage skin diseases in this high-risk group.

0078

Sublingual Administration of HEMA Enhances Antigen-Specific B cell Responses to co-Administered Ovalbumin and *Streptococcus Mutans*

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¹Oral microbiology and immunology, Institution of Odontology, Gothenburg, Sweden, ²Oral microbiology and immunology, Odontology, Gothenburg, Sweden, ³Oral microbiology and Immunology, Odontology, Gothenburg, Sweden

Objectives The wide use of acrylic based resins in a variety of modern dental procedures calls for a larger knowledge about the material characteristics and safety, as it has been reported that leakage of uncured monomers into the oral cavity can cause adverse health effects in dental patients post restorative treatment. The aim of this study was to investigate the ability of 2-hydroxyethyl methacrylate (HEMA) monomers to increase specific systemic immune responses towards bacterial and model antigens, i.e. the adjuvant capacity of HEMA, via the sublingual mucosa.

Methods Mice (n=8/group) were sublingually administered the common oral bacteria *Streptococcus mutans* (*S. mutans*) or *Lactobacilli murinus* (*L. murinus*) or the model antigen ovalbumin (OVA) together with HEMA at four weekly occasions. Mice administered *S. mutans*, *L. murinus*, OVA or HEMA only served as controls. One week after the last immunization, blood was drawn from the axillary plexus and the experiment was terminated. Serum was prepared and ELISA were performed in order to determine specific antibody responses.

Results Results show significantly increased anti OVA IgG activity in serum from mice immunized with OVA together