



LOMA LINDA UNIVERSITY

School of Dentistry

2017 UNIVERSITY-WIDE HOMECOMING CONVENTION

CALL FOR POSTER ABSTRACTS

WELCOME!

Join us at our first LLU Combined Homecoming Event! This is the time to celebrate one united alumni weekend and share our stories and relationship with each other.

The University-Wide Home Coming Convention will also provide faculty and students with the opportunity to present, discuss and critique their research. We encourage you to submit an abstract for consideration for presentation.

IMPORTANT DATES TO REMEMBER

Abstract Submission Deadline.....February 2, 2017
Presentation Numbers Emailed to Presenters.....Mid February, 2017
Poster Presentations.....March 2 & 3, 2017

ABSTRACT RULES AND GUIDELINES

1. Individuals may present **only one abstract** but can co-author multiple abstracts.
2. Projects being submitted must be original research.
3. Abstracts must be submitted via email to Dr. So Ran Kwon at sorankwon@llu.edu by Feb 2, 2017.
4. You must receive the approval of all co-authors before putting their names on the abstract.

CONTENT OF ABSTRACT

1. **Titles:** Abstract titles are limited to 12 words or less.
2. **Authors:** Each author should be listed. List first (given) name, and last (family/surname) name for each author plus institution/affiliation. One person must be identified as the presenting author.
3. **Abstract Text:** All abstracts should be 300 words or less. The abstract must contain a brief statement of the objectives of the investigation; methods used; results including appropriate statistics; and conclusion.
4. **Keywords:** List 3-5 keywords.
5. **Example of Abstract** (please see Appendix I).

SUBMISSION INSTRUCTIONS

1. Abstracts must be submitted via email to Dr. So Ran Kwon at sorankwon@llu.edu by Feb 2, 2017.
2. Email subject: Homecoming Poster Abstract Submission
3. Abstracts should be submitted as a word document (Font type : Arial, Font size: 11).

POSTER PRESENTATION

The poster presentation will be held in the Chen Fong Room, 4th Floor, of the Centennial Complex, on March 2 & 3, 2017. School of Dentistry has 5 poster stands that can accommodate 10 posters per session. Poster sessions will be held on Thursday March 2nd & Friday March 3rd. Up to 50 poster presentations will be accepted for LLUSD.

STUDENT POSTER PRESENTATION AWARDS

	Dental Students (Clinical)	Dental Students (Scientific)	Dental Students (Community)	DNHY Students (Clinical)	DNHY Students (Community)
Date	Friday March 3, 2017	Friday March 3, 2017	Friday March 3, 2017	Friday March 3, 2017	Friday March 3, 2017
Time	10:00 AM-Noon	10:00 AM-Noon	10:00 AM-Noon	8:00 AM-10:00AM	8:00 AM-10:00AM
Judging	10:00 AM-Noon	10:00 AM-Noon	10:00 AM-Noon	8:00 AM-10:00AM	8:00 AM-10:00AM
Awards Ceremony	12:30 PM	12:30 PM	12:30 PM	12:30 PM	12:30 PM
1st Place	\$600.00	\$600.00	\$600.00	\$600.00	\$600.00
2nd Place	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00
3rd Place	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00
Sirona Award	A crystal engraved award designed to honor the individual selected to represent LLUSD in the 2017 ADA/Dentsply Sirona Student Clinician Research Program in Atlanta, GA				

APPENDIX I: SAMPLE ABSTRACT

Title: Dynamic Model of Hydrogen Peroxide Diffusion-Kinetics into the Pulp Cavity

So Ran Kwon*, Raydolfo M. Aprecio, Udochukwu Oyoyo, Yiming Li
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Objectives: To measure the time course hydrogen peroxide penetration into the pulp cavity, and evaluate tooth color changes after bleaching over different time periods.

Methods: Extracted human canines (n=80) were sectioned above the CEJ, pulp tissue removed and cavity enlarged. Teeth were painted with nail varnish to leave a 6mm diameter circle on the buccal surface. Baseline color was measured spectrophotometrically; 25µl acetate buffer was added into the cavity. Teeth were randomized into a control group (n=40) treated with 30µl glycerin base and an experimental group (n=40) exposed to 30µl 40% hydrogen peroxide for 1 hour. A linear low density polyethylene wrap was placed to prevent evaporation of material. Acetate buffer was removed from the cavity and replenished every 10 minutes and placed into tubes. Hydrogen peroxide amount was estimated spectrophotometrically using leucocrystal violet and horseradish peroxidase. Specimen color was re-measured immediately after bleaching, 1 hour, 1 day and 1 week post-bleaching. Color change was measured per Commission Internationale de l'Eclairage methodology. Mann-Whitney procedure was used to assess baseline color measurements and total hydrogen peroxide penetration amount.

Results: The groups showed no difference at baseline with respect to any of L*a*b color measurements (p>0.05); there was significantly greater hydrogen peroxide penetration in the experimental group (p<0.05). Hydrogen peroxide penetration levels were constant throughout the one-hour evaluation period in the experimental group. The post-bleaching color measurement showed an increase of the overall color change (ΔE) up to one week in the experimental group and an initial increase followed by a decrease at one week in the control group.

Conclusion: This dynamic model provides information about the time course diffusion kinetics into the pulp cavity, demonstrating constant penetration of hydrogen peroxide into the pulp cavity during a one-hour bleaching session.

Acknowledgement: Bleaching materials were kindly provided by Ultradent Products, Inc.

Keywords: Bleach, Color, Esthetics, Diffusion, Teeth

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