

### DRA in the Community



DRA attended AWARE for All: Clinical Research Education Day on December 1st at Tufts Medical Center. AWARE for All is organized by an independent nonprofit organization called the Center for Information and Study on Clinical Research Participation (CISCRP), that works to engage the public and patients as partners in the clinical research process.



The event included educational displays, health screenings and speakers, which aimed to educate the community about clinical research.

DRA had a table at the event, and Dr. Yoon Kang provided free oral health screenings. The event was attended by several hundred people from the community, and was a great opportunity to inform people about the different types of clinical research being done at the Dental School!

Click [here](#) to check out the TUSDM clinical trials currently enrolling patients.

### **Deadline Approaching - Student Research Fellowship Program**

Don't forget: If you would like to participate in this year's Student Research Fellowship Program, the first step is to complete and send a [Letter of Intent](#) to [Eileen Doherty](#) prior to **1/6/17** (for D20 students) or **1/27/17** (for D19 and D18 students). Based on the type of project outlined in the letter, you will receive a detailed template that will be used as a guide to write your research proposal.

Please contact [Eileen Doherty](#) with any questions pertaining to student research. Details about the program can be found [here](#).

### **Planning a Research Study or Submitting a Grant?**

- ◆ For protocol templates, contact [Amanda Gozzi](#).
- ◆ For assistance with study design, contact [Dr. Britta Magnuson](#).
- ◆ For help with determining your sample size and statistical plan, contact [Dr. Matthew Finkelman](#).
- ◆ To submit a grant contact [Quigley Raleigh](#) or [Pamela Corrado](#).

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### Faculty Research Mentor Spotlight - Dr. Yun Saksena



There are many faculty members who take time out of their busy schedules to mentor students throughout their research projects. We would like to highlight Dr. Yun Saksena. Dr. Saksena has been an Assistant Professor in the Comprehensive Care department at TUSDM since 2000. Before coming to TUSDM, Dr. Saksena researched fractural toughness of dental ceramics, apoptosis of osteoblasts, and a clinical research project developing 3D MRIs of the TMJ. She started mentoring research students in 2012 at TUSDM after feeling inspired while attending an American Dental Education Association (ADEA) meeting. When she decided to take on research students at TUSDM her research focus was on Dental Education. Since 2012 Dr. Saksena has mentored ten students, published seven abstracts and one publication all in the Journal of Dental Education. Dr. Saksena states “Students can accomplish amazing things if we let them. It’s a privilege guiding them, and it is fun helping them grow.”

If you are interested in learning about or becoming a research mentor please contact [Eileen Doherty](#).



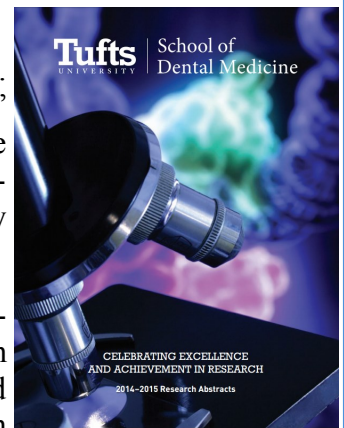
### ADEA/IADR Meeting Attendance

If you are attending and/or presenting at the ADEA Annual Meeting in Long Beach, CA or the IADR Annual Meeting in San Francisco, CA during March 2017 please let [Katie Dunn](#) know. Katie compiles schedules for each meeting and events during the IADR meeting, so make sure you are included by emailing her. **Students:** Once you receive your presentation date and time for either meeting forward those to [Katie Dunn](#). If you have any questions about traveling to ADEA or IADR please contact Katie.

### Bates-Andrews Research Day

Each year TUSDM holds the Bates-Andrews Research Day to honor George A. Bates, an alumnus who taught Tufts medical and dental students. “Bates Day” features student poster presentations showcasing research conducted over the past year and commercial exhibitor displays. Bates Day gives students an opportunity to share their research endeavors with the rest of the Tufts community and is a great opportunity to practice presentations before national meetings.

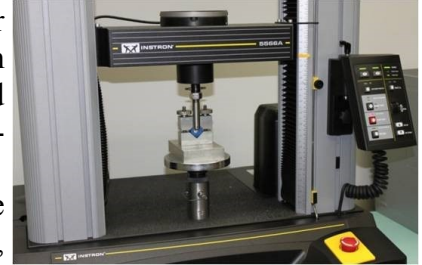
This year, Bates Day is on **Wednesday, March 8<sup>th</sup> 2017**, and poster presentations will begin at 11am on the 14<sup>th</sup> and 15<sup>th</sup> floors. The Keynote presentation will highlight the importance of effective communication in science and healthcare from the [Alan Alda Center for Communicating Science](#), at 3:30pm in Merritt Auditorium. **In order to present at the next Bates Day, you must submit your abstract [here](#) by January 20<sup>th</sup>, 2017.** Students who are part of the fellowship program or are a Dean’s Research Scholar are required to present at Bates Day as part of their fellowship/scholarship.



## The Gavel Lab - Dental Material Research's Best Kept Secret

Are you interested in materials research? The Dr. J Murray Gavel Center is dedicated to *in-vitro* research in restorative dental materials and is open to all TUSDM researchers. The Center is located in DHS 833 and is staffed full-time with a research technician for assistance. The equipment available for use in the Gavel lab includes:

- **Instron® 5566A** - a universal testing machine that is used to evaluate mechanical properties of materials, including compressive, shear bond, and tensile strength tests.
- **EcoMet® 250** - a grinding machine that uses abrasive paper to expose specimen enamel and/or dentin.
- **IsoMet® 1000** - a precision cutter designed for sectioning various types of materials.
- **MicroMet® 2104** - tests Vickers hard ness through micro-indentation.
- **VWR™ Thermocycler** - mimics the environment of the mouth by transferring samples through hot and cold water baths, simulating material aging.
- **Olympus® Crystaleye Spectrophotomer** - used in color analysis.
- **Orion Star™ A214** - measures solution concentrations of Fluoride and pH.
- **Olympus SZX16** - a stereo microscope used for visual analysis.
- **High and low speed drill setups** - each equipped with an air and water syringe.



Shear Bond Testing occurring on the Instron 5566A.

Contact the Gavel Center's technician, [Jeffrey Daddona](#) (617-636-2115), to schedule lab usage. Institutional Review Board (IRB) clearance and safety training are required before any work can begin.

## DRA Hosted Lunch and Learns

DRA strives to increase the opportunities for education in all aspects of research. The Tufts community will be invited to the following lunch and learns. If you would like to RSVP now you can do so by emailing [Ledja Lera](#). Date, time, and location information will be shared at that time.

- **Demystifying the IRB Process** - Monday January 9, 2017
- **Qualitative Research** - Thursday February 2, 2017
- **GCP and Research Coordinating** - Monday February 27, 2017
- **Grant Submission Process** - Thursday April 13, 2017

Did you miss a previous lunch and learn you were interested in? Click on the title to be directed to the PowerPoint Slides, lecture capture videos, or informational website for our past lunch and learns.

- June 14, 2016 [Library Seminar](#)
- August 29, 2016 [How to Write the Perfect Abstract](#)
- September 19, 2016 [How to Set up the Perfect Spreadsheet for Data Analysis](#)
- September 29, 2016 [Research Mentoring Workshop](#)
- November 10, 2016 [The NIH Medical Research Scholars Program](#)
- November 18, 2016 [Animal Studies and Research Laboratory Resources](#)

## Looking to Submit a Grant? Be aware of the 5 day rule!

If you are a TUSDM faculty member thinking about submitting a grant, please contact [Quigley Raleigh](#) or [Pamela Corrado](#) at the beginning of the process. A minimum of 6 weeks' notice is needed in order to prepare the grant package in order to properly submit it to the funding agency.

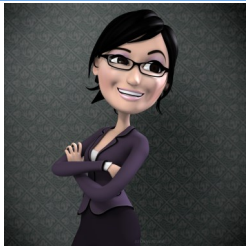
**“5 day rule”:** TUSDM is required to submit all grant proposals via the new electronic Research Administration grant submission system (RAS) 5 business days before the sponsor deadline. The proposal will be routed to the Vice Provost’s Office of Research Administration (ORA) for final review and approval.

In addition, two days prior to the sponsor deadline the final research strategy document must be uploaded if it was not already included at the time of routing. **If a proposal is not 100% complete two days before the submission deadline, the PI will be required to complete an [addendum](#) acknowledging they are submitting an application for review and submission less than 48 hours prior to the due date.** This addendum will be sent to Dean Thomas and ORA.

## Boston Trivia

1. What was the vocation of famed freedom rider Paul Revere?
2. About how many colleges and universities are there in Boston metropolitan area?
3. How many students attend Boston’s colleges when they are in season?

Answers: 1. Silversmith and Dentist 2. More than 100 3. Over 200,000



### Ask Ms. Science Compliance

Have a question about research but aren't sure who to ask? Submit your question [here](#) and Ms. Science Compliance will be happy to answer it.

#### Dear Ms. Science Compliance,

My Mom’s best friend works at a dental materials company and offered to give me free samples to use for my research project. Is this allowable? If so, do I need to track it in any way?

Thank you,

**Responsible Researcher**

#### Dear Responsible Researcher

That is great that your Mom’s best friend company is willing to donate materials for your research project. This is allowable however, all donated materials need to be tracked. Reach out to [Katie Dunn](#) and she will be able to help you follow the proper University procedure regarding gifts in kind and other types of donations.

Thank you

**Ms. Science Compliance**

### Armenian Rice Pilaf: Serves 3-4

(Submitted by Tamar Roomian, DRA)



**Ingredients:** 2T butter  
2T olive oil  
½ cup small vermicelli egg noodles OR orzo  
(The vermicelli noodles should be in 1-2 inch pieces. Orzo also works)  
1 cup long grain white rice (any type)  
2 cups chicken broth or stock

**Directions:** Melt butter with olive oil in a medium pot over medium heat. Once melted, add vermicelli noodles (or orzo) and cook until brown, stirring frequently so they cook evenly and don’t burn. Once brown, add rice and toast rice in butter/oil mixture for about 30 seconds to a minute. Add chicken stock, stir, bring to a boil, then cover and reduce heat to low. Cook for about 18 -20 minutes or until all the stock is absorbed. Turn off the heat and let rest for 5 minutes covered before serving.

\* To share your recipe with the group please email [DentalResearchAdministration@tufts.edu](mailto:DentalResearchAdministration@tufts.edu)!

## ClinicalTrials.gov Reporting Requirements and Publishing

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When planning a research study, consider where you intend to publish as some journals require studies to be posted on ClinicalTrials.gov, regardless of federal guidelines.

The NIH recently updated their requirements for clinical trial reporting, creating a legally defined timeline for study registration and results reporting, in what is called the “[Final Rule](#).” The Final Rule goes into effect January 18, 2017. As a general rule, if any FDA-approved devices or drugs are being tested or compared, the study should be registered on [www.ClinicalTrials.gov](http://www.ClinicalTrials.gov).

**Registration is required by law for trials that meet the Final Rule definition of an “Applicable Clinical Trial.”** An Applicable Clinical Trial is a controlled investigation, other than a phase 1 trial, of a drug, biological product or device subject to FDA regulation. All applicable studies must be posted on the site within 21 days of enrolling the first subject.

DRA can assist with registering your study on ClinicalTrials.gov, but once posted the Principal Investigator is responsible for making the mandatory updates. Please contact [Amanda Gozzi](#) regarding PI responsibilities and any questions about ClinicalTrials.gov posting guidelines.



## NIH Policy- Good Clinical Practice (GCP) Training

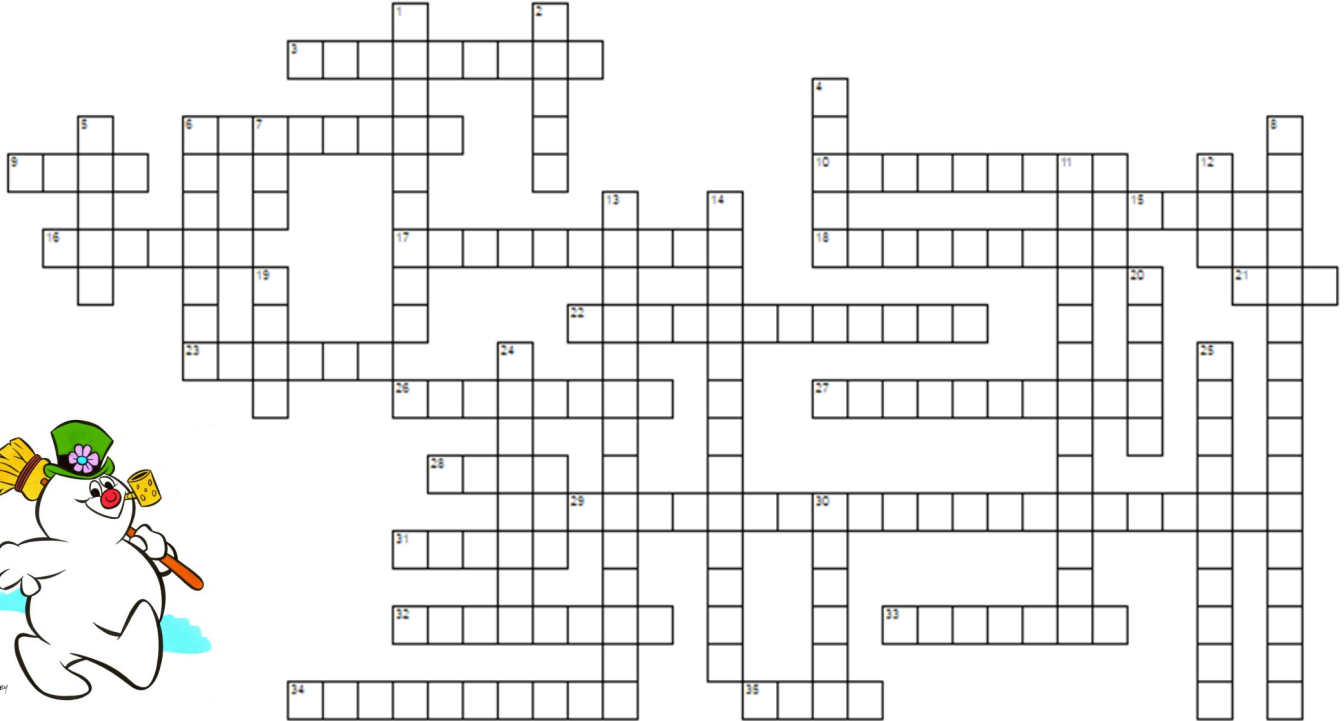
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Good Clinical Practice (GCP) is an international ethical and scientific quality standard which assures the protection of research study participants.

The National Institutes of Health (NIH) has issued a [Good Clinical Practice Training policy](#) which went into effect on January 1, 2017. **As of the new year, all NIH-funded PIs and staff involved in the conduct, oversight or management of clinical trials must be GCP trained.** In addition, the policy requires GCP training to be refreshed at least every 3 years.

DRA has developed an internal GCP training which is consistent with principles of the International Conference on Harmonisation (ICH) E6, and meets NIH standards. If you need to complete this training, please contact [Amanda Gozzi](#) to receive the materials.

**Stay warm this winter and try our research themed crossword puzzle!**



**ACROSS**

- 3 Used to obtain consent for non-English speaking subjects
- 6 Summary of research project for presentation
- 9 IRB must reapprove open studies once every \_\_\_\_
- 10 A vulnerable population
- 15 Author contributing maximum work
- 16 Should include F&A Costs
- 17 Adherence to study protocol
- 18 A submitted change to an IRB approved protocol
- 21 Located in suite 1513
- 22 Study category involving patient charts
- 23 Minimal risk studies typically are
- 26 All subjects that sign a consent form are considered this
- 27 Amount of subjects needed for a clinical study
- 28 Donated materials or funds
- 29 Individual responsible for conduct of research study
- 31 Systematic review of study documents
- 32 Details the conduct of a research study
- 33 Must be obtained before any research activities
- 34 Research misconduct, eg.
- 35 Mandatory institutional research training

**DOWN**

- 1 The "P" in GCP
- 2 Type of research funding
- 4 Privacy rule
- 5 Body that oversees animal studies
- 6 Type of event you don't want in your clinical study
- 7 A type of PHI
- 8 Conducted before writing a protocol
- 11 Selecting treatment groups by random
- 12 Governing authority that oversees human research
- 13 A tool for recording source data
- 14 From the past
- 19 Medford IRB specialty
- 20 Predictive probability of success
- 24 Ownership interest in the company providing funds for research, eg.
- 25 Study design where subjects receive multiple treatments, each assigned to a separate section of the dentition
- 30 Obtained for children 7 years and older