Dear HOT members,

This *Toxenlaces* issue is full of good news with the inclusion of outstanding publications of our members in scientific journals with very expressive impact factor. The trainee section brings a summary of our graduate student Carla Garza’s research about how the brain responds to systemic glutathione alteration levels.

We cordially invite our graduate students and postdocs to apply for the awards for participation at the SOT Annual Meeting in Baltimore in March 2019. Be aware of the deadline for travel awards application. January 12 is the date and all the information on how to apply is included in this *Toxenlaces* edition.

January 12 is also the deadline for applications for the Distinguished Toxicologist Award. This award celebrates the contribution of HOT members to Toxicology and to the Hispanic Organization of Toxicologists.

Although this is the last issue of 2018 you will receive this issue at the beginning of 2019. I hope everyone had a great time during the holiday season and wish everyone a 2019 full of joy and success.

My particular thanks to all HOT Board for this profitable year and a special one to the *Toxenlaces* team.
CONGRATULATIONS

Carla Garza-Lombo, PhD candidate

Recently, the research work of Carla Garza-Lombo was accepted for publication in the Journal of Neurochemistry.

https://authors.elsevier.com/c/1Xt49io-umXO5

Biobide: Outstanding scientific publications on Zebrafish

Great satisfaction for the company specialized in zebrafish, Biobide, after its recent publication in the scientific journal "Neurotoxicology and Teratology Journal". The article shows the work carried out in collaboration with the National Institute of Health and Environmental Sciences (NIEHS), National Toxicology Program (NTP) department, in which different toxicities of organophosphorus flame retardants were evaluated as a potentially less toxic replacement for highly toxic brominated flame retardants. The research covered a wide range of assays, such as developmental toxicity, cardiotoxicity, behavioral assessment and hepatotoxicity. The results showed that the zebrafish is a robust and reliable model for the evaluation of toxicity.

Moreover, they highlighted a second new scientific article in which Biobide has participated. This publication, directed by the German center Helmholtz Center for Environmental Research, with the collaboration of Sanofi and Biobide, has been published in the "Toxicological Sciences" journal. The main goal of this investigation was to create a new, automated and more objective method for screening developmental toxicity in zebrafish embryos called FishInspector.

Articles:
https://doi.org/10.1093/toxsci/kfy250
CONGRATULATIONS

Ignacio Tripodi, PhD student
Last April, 2018, Ignacio Tripodi was awarded for best poster presented at the latest Next Generation Sequencing Conference (NGS 2018) from ISCB/CRG in Barcelona, Spain.

Kelly Polido
Kaneshiro Olympio, PhD
Last November, Kelly Polido, an associate professor from the Department of Environmental Health in the School of Public Health University of San Paulo, published her work in the Chemosphere Journal.

Home-based and informal work exposes the families to high levels of potentially toxic elements.


https://doi.org/10.1016/j.chemosphere.2018.11.083
NEWS FROM OUR MEMBERS

CONGRATULATIONS

Karina Caballero Gallardo, PhD

Dr. Karina Caballero Gallardo, Professor at the University of Cartagena (Colombia), obtained a scholarship (Resolution No. 02243-2018) to perform a 1 month-internship from November 1, 2018 to December 9, 2018 at the Laboratory of Food Chemistry and Toxicology - University of Valencia under the supervision of Professor Dr. Ana Juan-García. During this time, she received training on cell cultures and evaluated the cytotoxicity of sediment extracts from Cartagena Bay, an industrial area in Northern Colombia.

Also, Dr. Caballero was selected as a recipient of an SOT/SOT Endowment Fund/IUTOX Travel Award to attend the 2019 Society of Toxicology Annual Meeting in Baltimore Maryland, and nominated by Colombian Academy of Exact, Physical and Natural Sciences as a candidate to represent my country in the IANAS Anneke Levelt Sengers Prize 2018 call.

Dear HOT Members,

You are cordially invited to participate in Toxenlaces! Please send us any news, highlights, or announcements that you would like to share with our community in the upcoming newsletter, such as recent publications, awards, or new job positions/promotions, with your photo.

Also, if you are student or postdoc, and would like to gain more visibility with your peers, you can participate in our trainee section! Just let us know about your interest to publish a short contribution in our bi-monthly issue.

Please feel free to send us an email (jose.delgadojz@gmail.com and alejandroramirezlee@gmail.com) anytime during the year. We will be very happy to hear about you.

Cheers!

Jose F. Delgado and Alejandro Ramirez Lee.
ANNOUNCEMENTS

Trainee Section

HOT Trainee Wall

I'm Carla Garza and I'm finishing my PhD in Biomedical Sciences at the National Autonomous University of Mexico (UNAM). Since I'm almost done with my graduate studies, I'm starting to look for postdoctoral positions or jobs to continue my career. My topics of interest include neuroscience, signal transduction and neurotoxicology; but I'm open to expand or diversify my research interests. My study during my PhD was about understanding the brain response to systemic changes in GSH levels.

WHAT IS GOING ON?
The antioxidant glutathione (GSH) is the predominant low-molecular-weight thiol in mammals [2]. Diverse functions have been attributed to it, including the maintenance of the redox homeostasis, detoxification of xenobiotics and/or metabolites, cysteine and glutamate storage, by which it regulates a number of cellular functions, such as proliferation and apoptosis among others [4]. Exposure to xenobiotic agents that consume antioxidants, including metals, ionizing radiation, pesticides or ozone, affect GSH pools [3]. Aging and degenerative and neuropsychiatric diseases, such as Parkinson’s, Alzheimer’s, autism, schizophrenia, pulmonary and cystic fibrosis, are also associated with disruption in cellular GSH and alterations of GSH-dependent enzymes [1]. Moreover, chronic exposure to high levels of these agents could lead to the deregulated GSH metabolism observed in neurodegenerative diseases. Studying the regulation of GSH homeostasis would help to understand the mechanisms and redox changes involved in the exposure to xenobiotics and the development of neurodegenerative diseases.

Carla Garza
carla.garza@gmail.com

References:
STUDENT TRAVEL AWARD

The Hispanic Organization of Toxicologists (HOT) has provided Travel Awards since 2005 to outstanding students and postdoctoral trainees of Hispanic/Latin/Ibero-American/Brazilian/Spanish or Portuguese origin working in the area of toxicology research. The HOT Travel Award consists of monetary funds to help with the associated costs of presenting their research and attending the SOT Annual Meeting and a beautiful plaque for your lab or office space. The HOT Travel Awards are provided by funds of HOT sponsors. HOT will give preference to first-time applicants with a high quality research background. Previous winners may apply with the understanding that the likelihood of winning a second award may be linked to funding availability after all first-time applicant winners have been selected.

Who may apply? To apply for the HOT Travel Award, candidates must comply with the following requirements:

1) Applicant must be an undergraduate, graduate, or postdoctoral fellow.

2) Applicant must be a HOT member of Hispanic/Latin/Ibero-American/Brazilian/Spanish or Portuguese origin at the time of nomination.

3) Applicant must be first author of an abstract submitted and accepted for the upcoming SOT Annual Meeting.

4) The awardees must attend the HOT Award Ceremony, or have a representative, in order to be officially recognized as the winners and get the financial award and plaque. The award also includes the optional publication of their work in Toxenlaces.

Documents for application: Applicant must submit a copy of the complete abstract accepted by SOT and a letter of recommendation from a mentor (not to exceed one page). The letter must be written in English.

All documents are to be emailed to both: Aline de Conti, HOT Awards Committee Chair; José Francisco Delgado Jiménez, Co-Chair.

Deadline: Documents must be received on or before January 12, 2019.
**DISTINGUISHED TOXICOLOGIST AWARD**

The Distinguished Toxicologist Award is given each year to a toxicologist of Hispanic/Latin Ibero-American Brazilian/Spanish or Portuguese origin whose work exemplifies the mission of the HOT SIG by contributing to the advancement of the field of toxicology. Scientific and/or regulatory accomplishments and/or community services will be considered during the review. The HOT Distinguished Toxicologist Award consists of a beautiful recognition plaque for your lab or office space.

### Who may apply?
To apply for the Distinguished Toxicologist Award, candidates must comply with the following requirements:

**Nominator** – *The nominator* for the HOT Distinguished Toxicologist Award Candidate *shall be a member of SOT and/or a member of HOT at the time of nomination.*

**Nominee** – *Nominee shall be a member of HOT at the time of nomination.* *Self-nominations will not be accepted.*

The application will be reviewed according to the following criteria:

1. Nominee’s scientific achievements in toxicology have had major impact on the field and stimulated new directions in their area of expertise.
2. Nominee’s contribution to the scientific progress of toxicology by their participation in the creation and/or implementation of regulations.
3. Nominee’s contribution to promoting their institution’s mission.
4. Nominee has been actively involved in SOT and/or HOT leadership.
5. Nominee has served in mentoring, community service, and/or at a national or international level with decision-making and/or advisory activities.
6. Nominee’s activities have had major contributions and impact on the application of toxicological sciences and on the protection and promotion of public health.

**Nomination package:**

1. The nominee’s Curriculum Vitae in English (PDF format), including a complete list of nominee’s publications.

2. One letter of nomination that must include a detailed description of how the nominee has fulfilled or is fulfilling one or more of the criteria stipulated above. The letter should be addressed to the HOT Distinguished Toxicologist Award Committee. The letter must be written in English.

**To nominate a colleague for this award, please submit a complete nomination package to** *Aline de Conti,* HOT Awards Committee Chair; and *José Francisco Delgado Jiménez,* Co-Chair.

**Deadline:** Documents must be received on or before January 12, 2019.
In order to motivate and promote the participation of HOT members outside the U.S. at the SOT Annual Meeting and in the HOT Travel Awards selection, the HOT Executive Committee created the special category of Travel Award for HOT Members Outside U.S. The Special Award for HOT members outside U.S. consists of monetary funds to help with the associated costs of presenting their research and attending the SOT Annual Meeting and a beautiful plaque for your lab or office space.

To apply for this HOT Travel Award, candidates must comply with the following requirements:
1) Applicant must be an undergraduate student, graduate student or postdoctoral fellow.
2) Applicant must be a HOT member of Hispanic/Latin/Ibero-American/Brazilian/Spanish or Portuguese origin at the time of nomination as defined in HOT bylaws.
3) Applicant must be first author of an abstract submitted and accepted for the upcoming SOT Annual Meeting.
4) Applicant must have developed the work related to the abstract outside the U.S.
5) The awardees must attend the HOT Award Ceremony in order to be officially recognized as a winner and to receive the financial award and plaque. The award also includes the optional publication of their work in *Toxenlaces*.

Documents to apply: Applicant must submit a copy of the complete abstract accepted by SOT and a letter of recommendation from her/his mentor (not to exceed one page). The letter must be written in English. Applicant must answer a question related to his/her origin. The question will be sent to the applicant during the application process.

All documents are to be emailed to both: Aline de Conti, HOT Awards Committee Chair; José Francisco Delgado Jiménez, Co-Chair.

Deadline: Documents must be received on or before January 12, 2019.
HOT
International Outreach

Updates in Toxicology
Webinar series

The conference was held in English with a total of 76 attendees from Brazil, México, Perú, Chile, Spain, Finland, Germany and United States.

We expect to continue collaborating with Clubes de Ciencia Brasil in organizing more webinars to spread knowledge in toxicology for young scientists in Latino and Hispanic countries.

Dr. Aline de Conti, Staff Fellow in the National Center for Toxicological Research, US Food and Drug Administration (US FDA), imparted the webinar “Epigenetics and Toxicology”.

This event took place on October 16, 2018 and was organized by HOT, University of Sao Paulo and “Clubes de Ciencia Brasil”.

If you would like to give a webinar or support future educational events from HOT please contact Dr. Teresa Palacios (phtere@gmail.com) and Dr. Aline DeConti (aline.deconti@fda.hhs.gov) chair and co-chair of education committee in HOT.
### HOT Sister Organizations

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If your Hispanic Organization is planning a Toxicology meeting or if you are organizing a Toxicology event intended for a primarily Hispanic audience, and want to promote it, send an email to María Cárdenas González (Councilor for Sister Organizations) at Mariana_CardenasGonzalez@hms.harvard.edu for more information for its inclusion in upcoming Toxenlaces issues.
HOT wants you to be part of the organization! To make it available to everyone, HOT accepts applications from **non-SOT members** to **become HOT members**. Yes, that is right!! You only have to have the desire to collaborate with and be part of our great organization.

Your HOT membership provides you with valuable resources throughout your scientific career as for networking through the largest Hispanic toxicologist community, giving you opportunity for Travel Awards or serving as a mentor to the young Hispanic toxicologists; besides you receive the *Toxenlaces* newsletter every two months.

Application and more information can be found at [Non-SOT Member Application](#). So, what are you waiting for? **We are looking forward to receiving your application today!!**

Follow us on Facebook at: [http://www.facebook.com/hispanicorganizationoftoxicologists](http://www.facebook.com/hispanicorganizationoftoxicologists)

Don’t forget to visit also the **SOT** Facebook page: [http://www.facebook.com/pages/Society-of-Toxicology-SOT/163627880427831?fref=ts](http://www.facebook.com/pages/Society-of-Toxicology-SOT/163627880427831?fref=ts)

- *Toxenlaces* is the newsletter that informs Hispanic toxicologists in the United States and the international Spanish and Portuguese-speaking scientific communities about important toxicological events and issues occurring in our countries. It is electronically published and distributed to our membership and Sister Organizations in Ibero-America. *Toxenlaces* disseminates critical dates for events, health perspectives, and funding and training opportunities. It serves as a toxicology forum for our members and other partner organizations, engages in educational outreach to the Hispanic communities and provides the essential elements to support networking among Hispanic toxicologists. *Toxenlaces* is open to receive collaborations from HOT and SOT members, and Sister Organizations. You can collaborate with short scientific articles, news or notes related with toxicology. Other ways to collaborate is by nominating your peers or yourself for the sections Trainee Section and When I Grow Up. For more information about collaborating with *Toxenlaces* send an email to [Jose Delgado (Toxenlaces Editor)](mailto:jose.delgadojz@gmail.com) with copy to [Alejandro Ramirez-Lee (Toxenlaces Assistant-Editor and Graphic designer)](mailto:alejandroramirezlee@gmail.com)

The views expressed in this *Toxenlaces* issue do not necessarily represent those of the Hispanic Organization of Toxicologists (HOT) or Society of Toxicology (SOT).
Editorial team of Toxenlaces wish you HAPPY HOLIDAYS AND HAPPY NEW YEAR 2019