



Arab Toxicologists Association

of the Society of Toxicology

Special Interest Group Reception

March 23, 2021

Social Media:

[#2021SOT](#)

[#ATA_SOT](#)



Arab Toxicologists Association

of the Society of Toxicology

❖ Reception Agenda

- Welcome
- Introduce ATA officers
- ATA Mission
- Awards
- Opportunities at ATA
- Upcoming event
- Student and Post-Doctoral Representatives
- Newsletter
- Website
- Financial Support
- Membership Benefits
- Direct Contact information- Survey
- Opening Discussion with All Attendees
- Reception closing- Hold-on for the Virtual Picture!

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Welcome ATA First Reception!



- ❖ 2021 is the first year for the Arab Toxicologists Association (ATA) reception
- ❖ Members to date
 - 50 including the executive members
- ❖ Not too late to join the ATA!
 - Spread the word!
 - Go to ATA- SOT website
<https://www.toxicology.org/groups/sig/ATA/join-us.asp>
 - Contact any of executive members

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2020-2021 ATA Officers

❖ Executive Committee:

- President: Hasan Falah Alghetaa, University of Baghdad
- Past President: Mohamed Abou-Donia, Duke University
- Vice President: Hanan Ghantous, FDA
- Vice President Elect: Salah Ahmed Soliman, Alexandria University
- Secretary/Treasurer: Nabila Saber Ahmed, Alexandria University
- Councilors:
 - Hadil Al Muhisen(1 year), Texas A&M University
 - Amira Mohammed (2 year), University of Baghdad
 - Saif A. Alharthy (2 year), St. John's University
- Graduate representative
 - Noor Aly, Texas A&M University

2021-2022 New ATA Officers



❖ Executive Committee:

- President: **Hanan Ghantous, FDA**
- Vice President: **Burhan Ghanayem, NIEHS-NIH Retired**
- Vice President Elect: **Nabil Al-Humadi, FDA**
- Past President: Hasan Falah Alghetaa, University of Baghdad
- Secretary: **Nabila Saber Ahmed, Alexandria University**
- Treasurer: **Amira Mohammed, University of Baghdad**
- Councilors:
 - Hadil Al Muhisen(2 year), Texas A&M University
 - Saif A. Alharthy (2 year), St. John's University
 - **Iyden Mohammed (1 year), University of Baghdad**
- Graduate representative
 - Noor Aly, Texas A&M University
- Postdoc representative
 - **Mohamed Ghorab, US Environmental Protection Agency**

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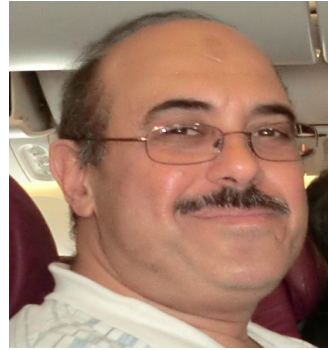
Meet ATA New Officers 2021-2022



President
Hanan Ghantous, Ph.D.,
FDA



Vice President
Burhan Ghanayem, Ph.D.,
NIEHS/NIH, Retired



Vice President Elect
Nabil Al-Humadi, Ph.D.
FDA



Secretary
Nabila Saber, PhD



Treasure
Amira Kamil Mohammed,
VMD, MSc, PhD.



Councilor
Hadil Almuhsen, MSc



Councilor
Saif A. Alharthy, MSc.,
PhD Candidate



Postdoc representative
Iyden Mohammed, PhD.
University of Baghdad



Postdoc representative
Mohamed Ghorab, Ph.D,
USEPA



Graduate Student
Representative
Noor Aly, MSc

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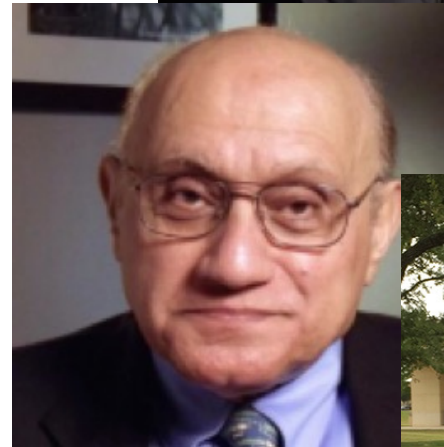
ATA-Who Are We?

❖ The Arab Toxicologists Association (ATA) was founded by professionals of Arab origin with experts in various areas of toxicology working in Arab countries and all over the world.

❖ ATA was established in 2019 as a Society of Toxicology Special Interest Group.



Salah Soliman,
Alexandria University



Mohamed Abou-Donia,
Duke University



Ziad Naufal,
Chevron Corporation



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Our Mission



- ❖ To establish a Special Interest Group of Toxicologists from the Arab World with a major goal to effectively communicate toxicological ideas and support its members to succeed and achieve excellence in toxicology in the United States and worldwide.
- ❖ To address current toxicological issues that affect Arab nations and increase awareness of the involvement of toxic substances in causing diseases.
- ❖ To promote the development of marginalized branches of toxicology in Arabic nations.
- ❖ To serve as an educational guide for Arabic studies in toxicological science.
- ❖ To promote the establishment of regional toxicology societies and of a Pan Arab toxicologist association to be an umbrella for all toxicology associations in all Arab countries.

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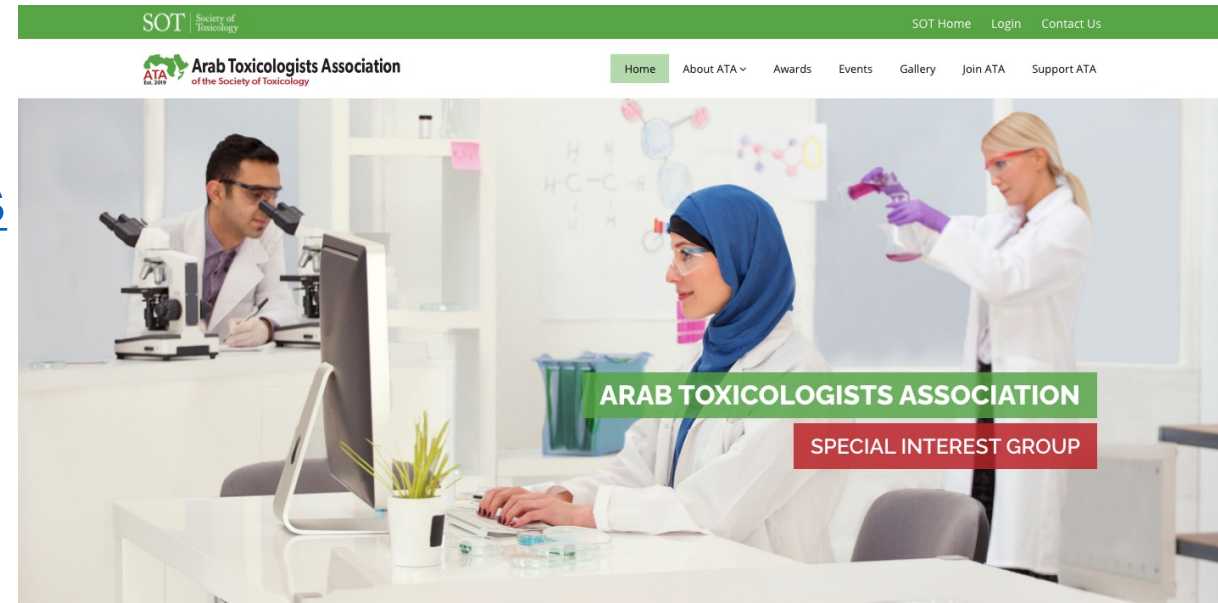
How To Learn More About the ATA

❖ We are available on ATA-SOT Website

- <https://www.toxicology.org/groups/sig/ATA/index.asp>

❖ By-laws and 3-year plan

- Available on the ATA-SOT website



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Awards Committee

❖ Interested in serving on the ATA Awards Committee?

- Contact Amira Mohammed
 - Dr.amirakamil@covm.uobaghdad.edu.iq
- Lots of work to do!

• Funding for awards

❖ ATA Awards

- Graduate Student Best Abstract
- Distinguished Scientific Presentation
- Best Publication
- Outstanding Professional Award

❖ Future ATA Awards

- Student Travel Award



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ATA Awardees 2021

Best Publication Award



Congratulations

Saeed Alqahtani

Ph.D. Student

School of Health Sciences,
Purdue University

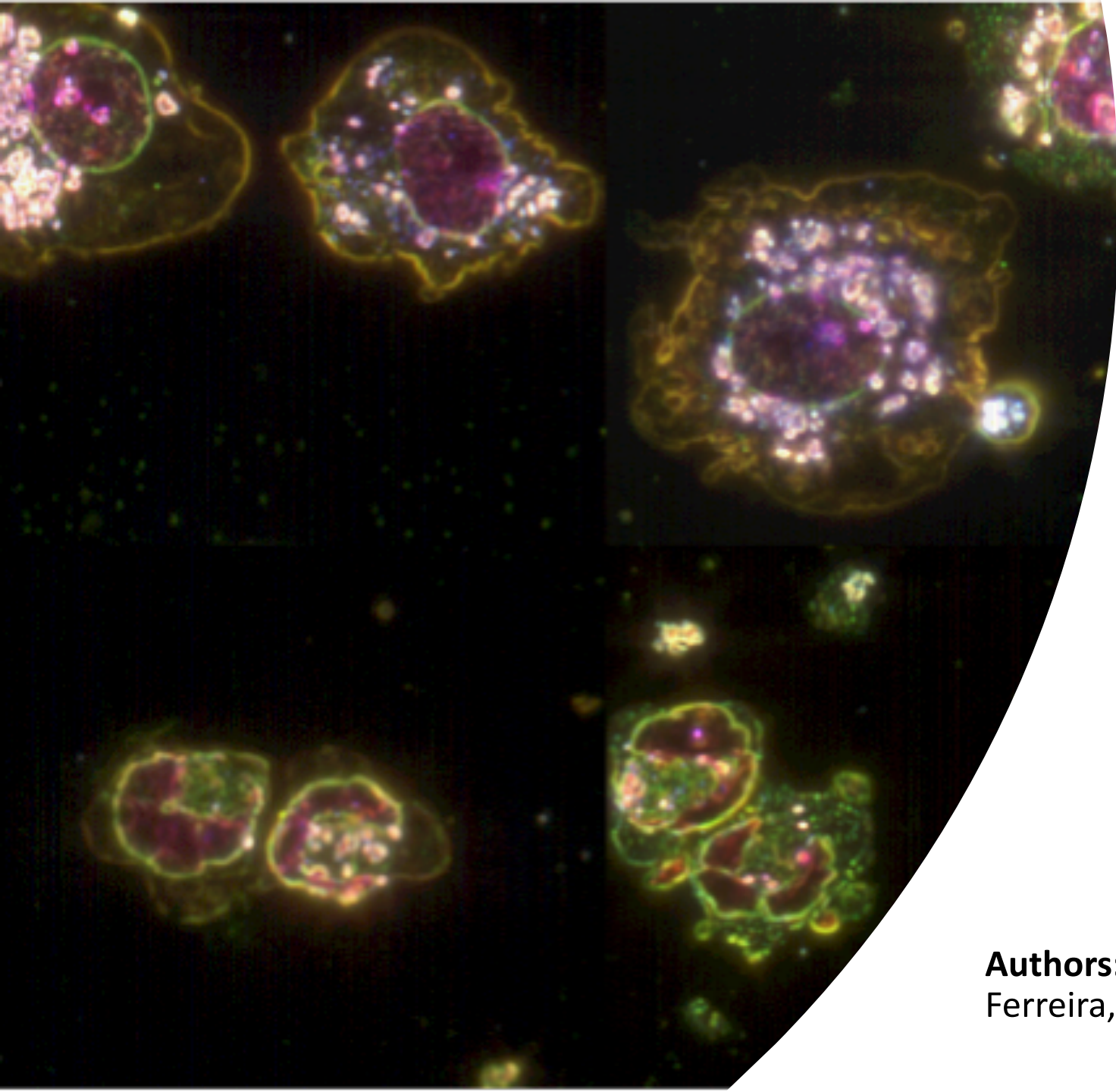


ORIGINAL RESEARCH
published: 07 May 2020
doi: 10.3389/fimmu.2020.00818



**Exacerbation of
Nanoparticle-Induced Acute
Pulmonary Inflammation in a Mouse
Model of Metabolic Syndrome**

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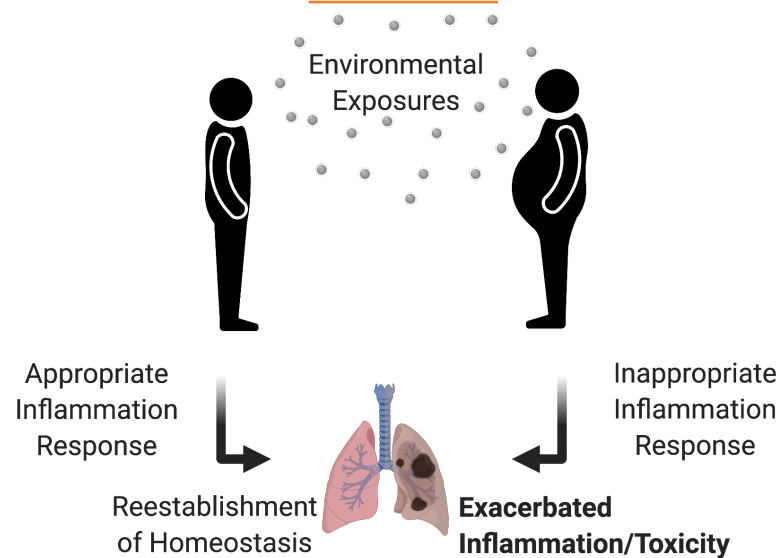


Exacerbation of Nanoparticle-Induced Acute Pulmonary Inflammation in a Mouse Model of Metabolic Syndrome

Published in Frontiers in Immunology 2020

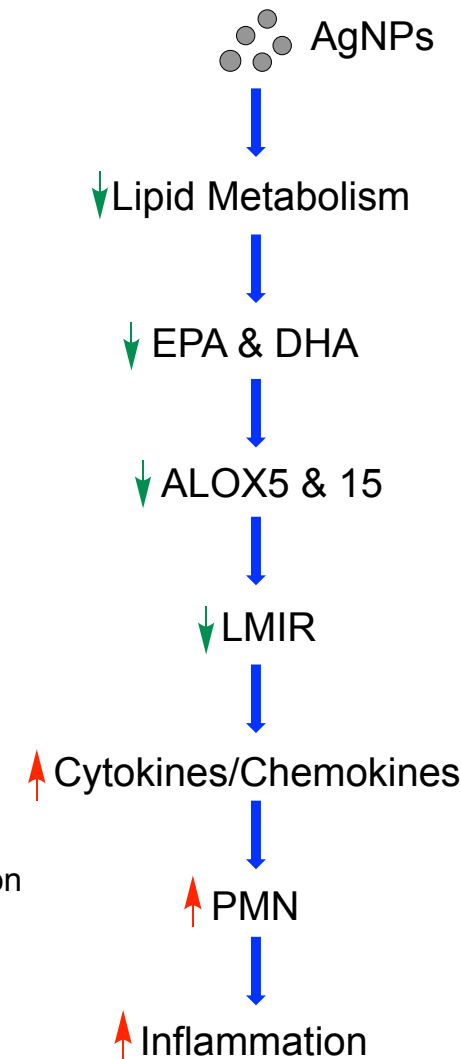
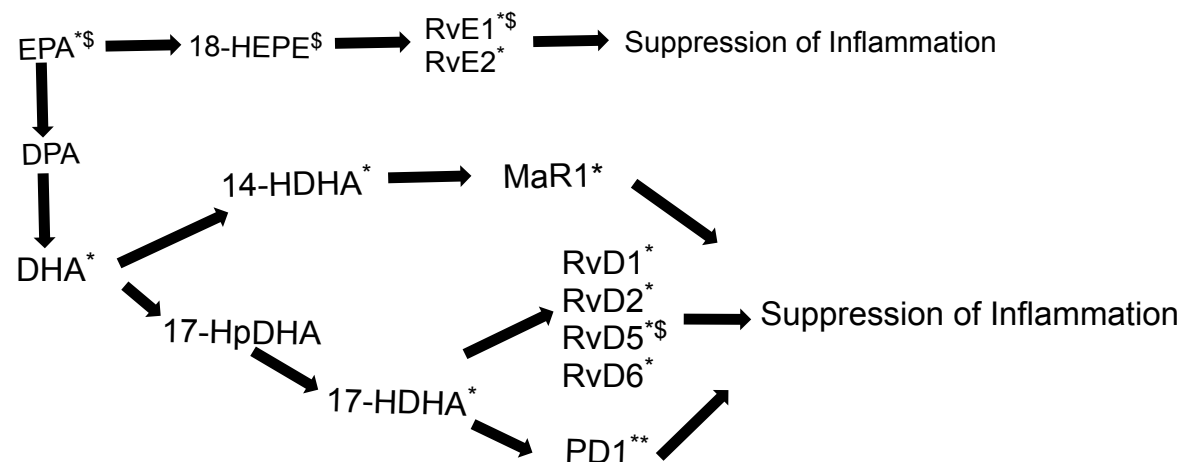
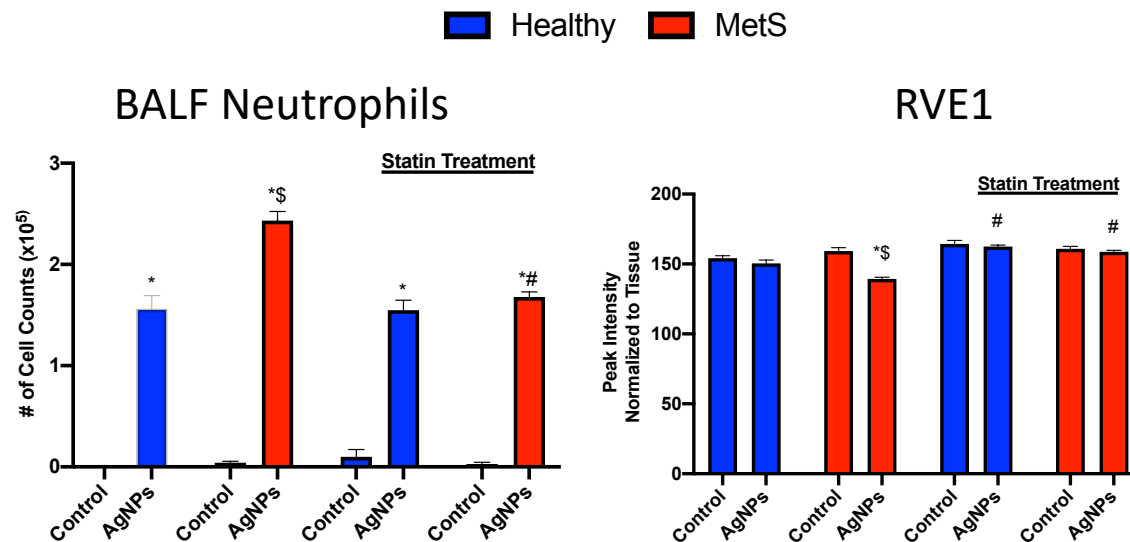
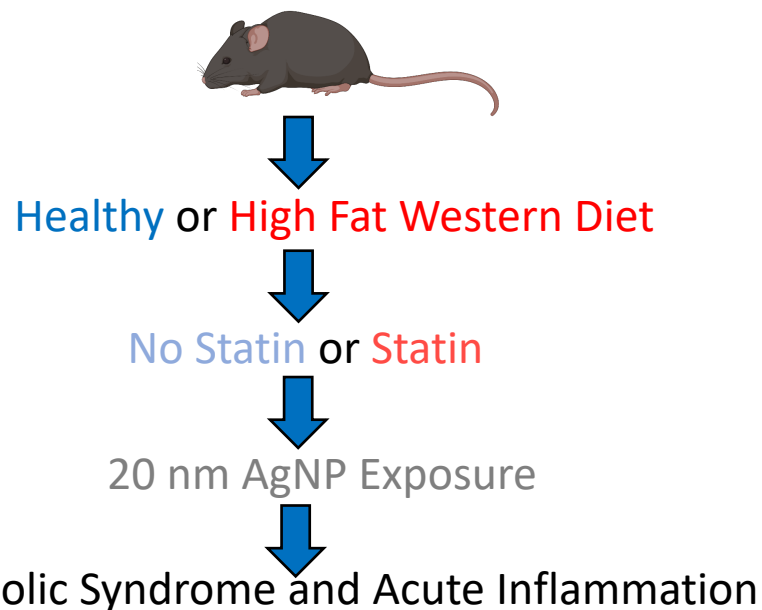
Authors: Saeed Alqahtani, Lisa Kobos, Li Xia, Christina Ferreira, Jackeline Franco, Xuqin Du, Jonathan Shannahan

Rationale



Hypothesis: Metabolic syndrome enhances pulmonary disease susceptibility to inhaled AgNPs due to enhanced inflammatory responses associated with dysregulation of lipid signaling.

Experimental Design



ATA Awardees 2021

Outstanding Professional Award



‘Cōngrātulātīōn’

Mohamed Ghorab

Research Toxicologist

Office of Chemical Safety and Pollution
Prevention (OCSPP), US EPA

Published 21 research articles, received many awards from outstanding organizations, very active in scientific societies, has been selected as mentor in the Toxicology Mentoring and Skills Development Training Program

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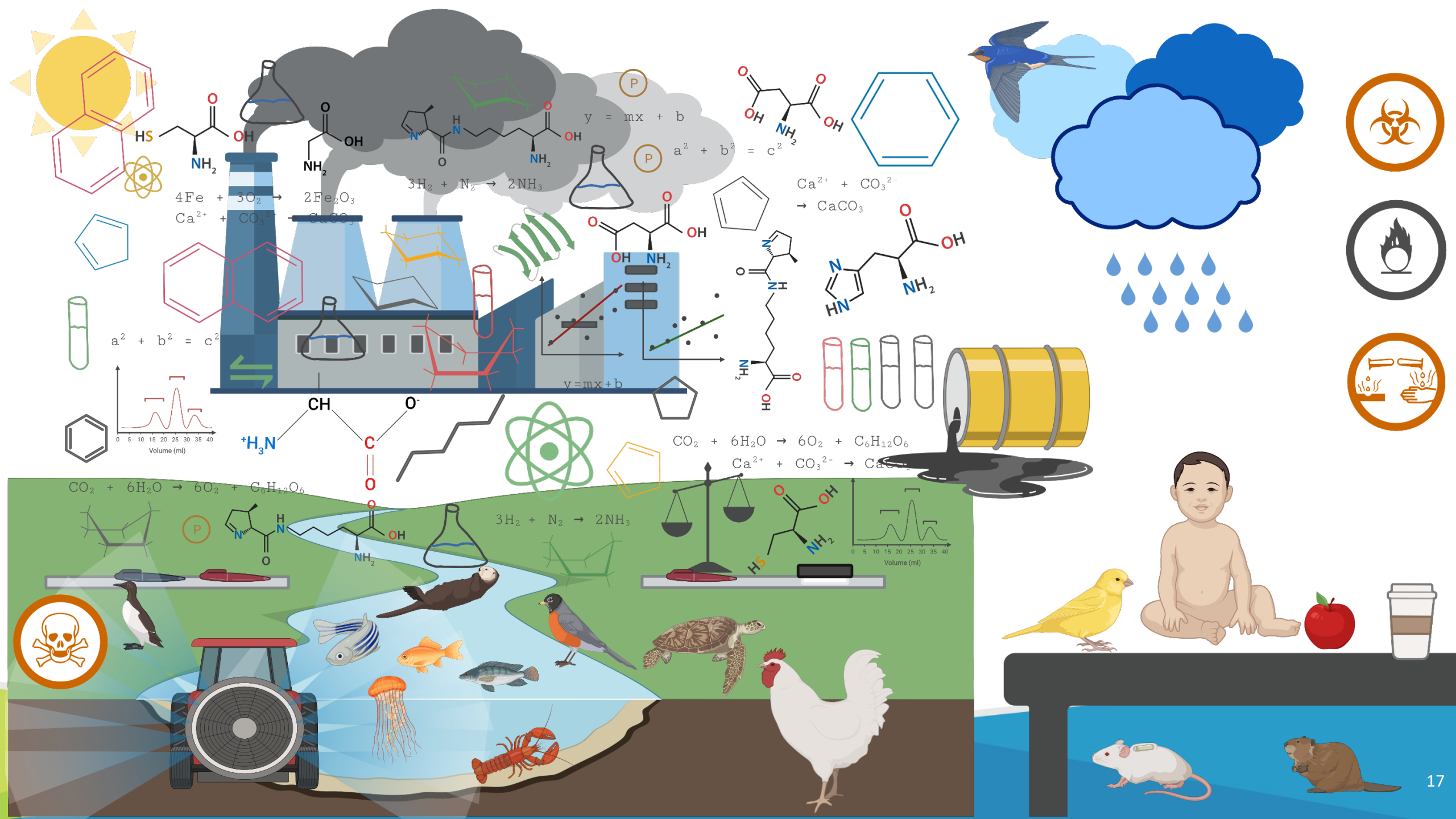
Arab Toxicologists Association
of the Society of Toxicology

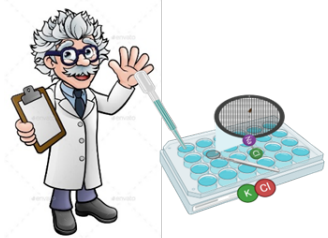


Disclaimer

The Views in this Presentation are those of the authors and may not represent their Agency or Organization policy.





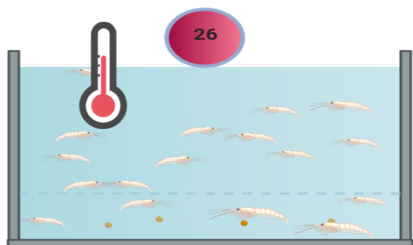


Materials & Methods

A Culture Maintenance

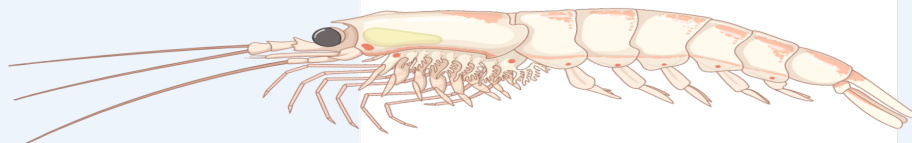
Environmental Chamber or equivalent facility with temperature control ($26 \pm 1^\circ\text{C}$)

Mysids are fed <24-hr old Artemia nauplii (newly hatched brine shrimp) twice daily.



Saline test and dilution water -- The salinity of the test water must be in the range of 20‰ to 30‰. The salinity should vary by no more than $\pm 2\%$ among the chambers on a given day

B Exposure toxicity test



24 hr

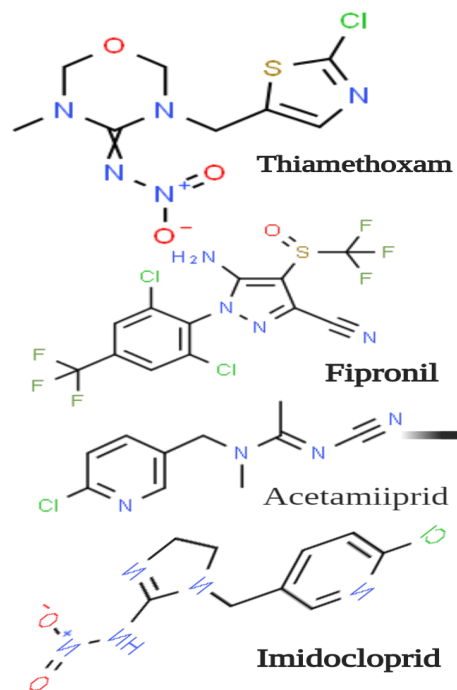
48 hr

4-D

7-D

14-D

C Use Pesticides



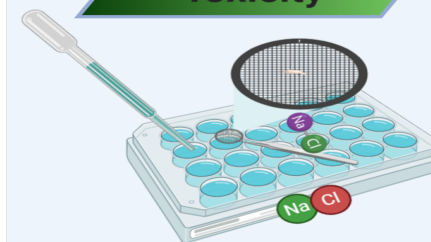
D The Acute & Chronic Test

Survival

Growth

Fecundity Test

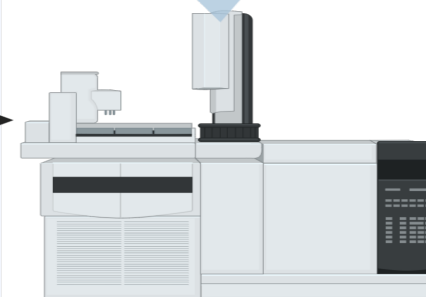
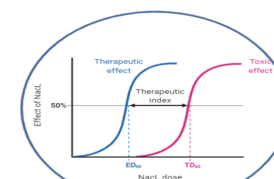
Sub-Chronic Toxicity



E Pesticide residues

Samples collected for analyzing the pesticide Residues

The LC_{50} and $\text{IC}_{10 \& 25}$

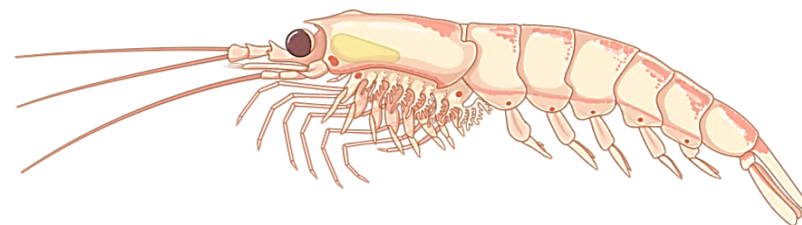
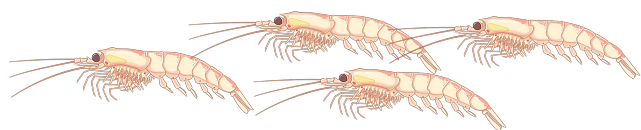


➤ Mysid, *Americamysis bahia* toxicity tests

Pesticide system exposure to embryonic and juvenile Mysid

Acute Toxicity Test

Chronic Toxicity Test



0hr

4hr

24hr

48hr

72hr

96hr

7-D

13-D

14-D

LC₅₀ test

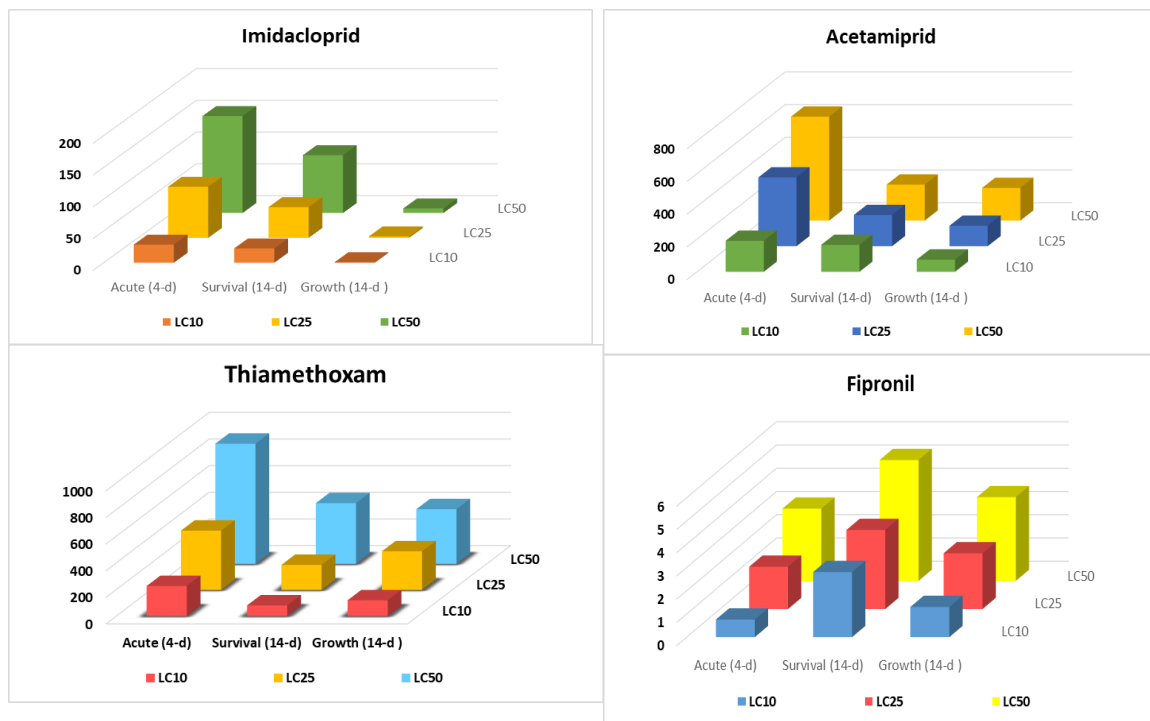
Sub-Chronic test

Chronic test

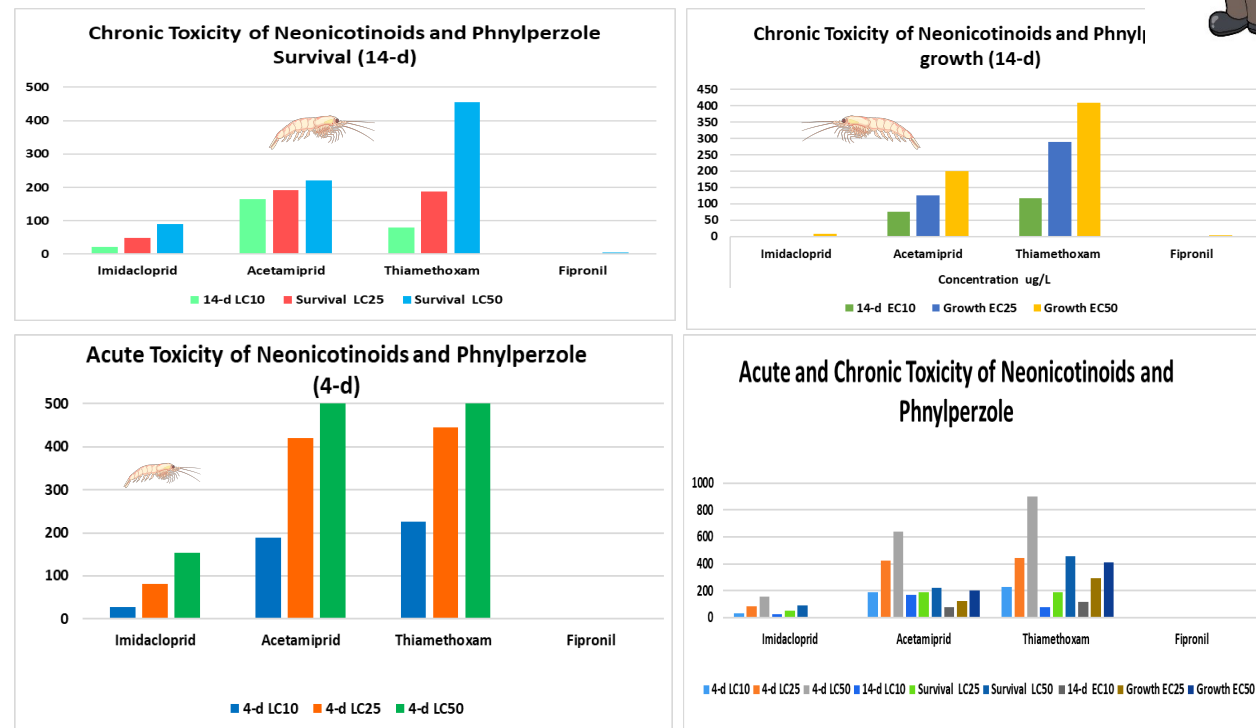
Results & Discussion



Acute Toxicity And Adverse Effects To The Juvenile And Adult Mysid shrimp



Toxicity impact of Neonicotinoids and Phenylperzole insecticides to acute (4-d) survival and growth of Mysid



Survival of Mysids after acute (96-h) and chronic (14-d), static-renewal toxicity tests with neonicotinoid and fipronil insecticides was assessed. X-axes show nominal concentrations ug/l. Different represent different experiments. Controls are data points on the y axis. Dashed lines are the nonlinear regression models used to calculate toxicity endpoints

Growth of Mysids after chronic (14-d), static-renewal, water-only toxicity tests with neonicotinoid and fipronil insecticides. X-axes are nominal concentrations. Different insecticides represent different experiments. Controls are data points on the y axis. Dashed lines are the nonlinear regression models used to calculate toxicity endpoints.

Collaborators



Dr. Ahmed Abdelmoneim,
Assistant Professor,
Louisiana State University



Dr. Helal Hetta
College of Medicine,
University of Cincinnati



Dr. Mohamed Khalil
Agricultural Research Center,
Central Agricultural Pesticides
Laboratory



Dr. John Newsted
Adjunct Professor,
Michigan State University



Dr. Abdelfattah Saad,
Professor of Pesticide Chemistry & Toxicology
Alexandria University



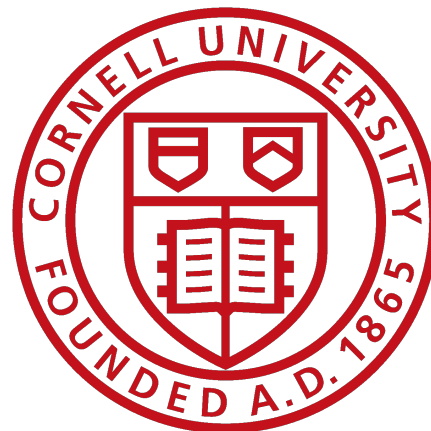
Dr. James Lazorchak,
Office of Research and Development,
U.S. Environmental Protection Agency



Dr. Matthew Zwiernik,
Professor and Director of WTL,
Michigan State University



Sponsor Laboratories





www.epa.gov

Retrospective analyses of aquatic freshwater species sensitivity using reference toxicant testing data.

James Lazorchak^{1*}, Roy Martin¹, Herman Haring², William Thoeny³ and Mohamed Ghorab³

¹ U.S. EPA Office of Research and Development Cincinnati, Oh. ²Formerly Pegasus-Currently SVL Analytical, ³ Pegasus c/o U.S. EPA ORD Cincinnati

This poster presents a retrospective analyses of reference toxicant testing and culture performance to assess reference toxicants that have been used across 7 test species, *Pimephales promelas*, *Daphnia magna*, *Ceriodaphnia dubia*, *Hyalella aspergillum*, *Chironomus dubius*, *Leuciscus chalciodon*, and *Salmo gairdneri*, developed for the first 20 tests, middle 20, last 20 tests and over each species period of record. In addition, for all species indicate that the sensitivity was within +/- 2 standard deviation of the mean LC50 for all control tests. Each of the other species showed at least one occurrence outside the +/- 2 SD for the 3 sets of control tests. These results should be considered reliable and also reproducible.



applied sciences



Review

Biogenesis, Biologic Function and Clinical Potential of Exosomes in Different Diseases

Amany Magdy Beshbishy^{1,*,†}, Saad Alghamdi² , ThankGod E. Onyiche^{3,4} , Muhammad Zahoor⁵ , Nallely Rivero-Perez⁶ , Adrian Zaragoza-Bastida⁶ , Mohamed A. Ghorab^{7,8,9} , Ahmed Kh. Meshaal¹⁰, Mohamed A. El-Esawi¹¹ , Helal E. Hetta^{12,13} and Gaber El-Saber Batiha^{14,†}



EPA United States Environmental Protection Agency

Environmental Topics

Environmental Topics Laws & Regulation

Science Inventory

You are here: EPA Home » Science Inventory » Generating ecotoxicity information on microcystins and prymnesins: A different approach (2020 SETAC)

Generating ecotoxicity information on microcystins and prymnesins: A different approach (2020 SETAC)

Citation:

Lazorchak, Jim, H. Haring, W. Thoeny, Mohamed Ghorab, J. Jones, N. Dugan, Joel Allen, T. Sanan, C. Nietch, AND Dar and prymnesins: A different approach (2020 SETAC) Meeting, Virtual, November 2020

Contact



Determination, Distribution and Toxicity of Pesticide Residues in Water, Sediment and Fish From Mariout Lake and their Health and Environmental Risk Implications

Abdelfattah S. Saad¹, Magdy A. Massoud¹, Ranya A. Amer^{2,3}, Laila M. Abdelfattah⁴, Mohamed A. Ghorab^{4,5,6*} and Matthew J. Zwiernik⁵,

¹ Pesticide Chemistry and Toxicology, Plant Protection Department, Faculty of Agriculture-Saba Basha, Alexandria University, Egypt

² Environment and Natural Materials Research Institute (ENMRI), City of Scientific Research and Technology Applications (SRTA City), Alexandria, Egypt

³ Genetic Engineering and Biotechnology Research Institute, City for Scientific Research and Technology Applications, Alexandria, Egypt

⁴ National Institute of Oceanography and Fisheries (NIOF), Environmental Toxicology Laboratory, Central Laboratories Unit (CLU), Alexandria, Egypt

⁵ II, USA

Cincinnati, OH, USA



Add sticky note (Ctrl+6)

MICHIGAN STATE UNIVERSITY

Acute and chronic toxicity of systemic insecticides; neonicotinoids and phenylpyrazole fipronil, in embryonic and juvenile zebrafish *Danio rerio*

Mohamed A. Ghorab^{1,2}, John L. Newsted¹, Ahmed Abdelmoneim³, Mohamed S. Khalil⁴, and Matthew J. Zwiernik¹

¹ Department of Animal Science, Wildlife Toxicology Laboratory, Michigan State University, East Lansing, MI, 48824, USA

² Pegasus Technical Services c/o U.S. Environmental Protection Agency (EPA), Office of Research and Development (ORD), Cincinnati, OH 45268, USA

³ Department of Food Science, Cornell University, Ithaca, NY 14853, USA, ⁴ Central Agricultural Pesticides Laboratory, Agricultural Research Center (ARC), EL-Sabaheya, Alexandria, Egypt





THANK YOU!

ATA Awardees 2021

Graduate Student Best Abstract



‘Cōngrātulātīōn’

Christiana Awada

Master Student

School of Medicine,
New York University

Abstract Number/Poster Board number: 2739/ P205

E-cigarette exposure during fetal development alters protein transporter and gene expression activity in neural pathways associated with obesity in mice.

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E-Cig Exposure During Development Alters Proteins in the Hypothalamus Associated With Obesity

**Christina Awada^{1,2}; Ortiz,Angelica, PhD²; Jason Blum, PhD²;
Judith Zelikoff, PhD²**

**¹New York University , ²New York University Langone
Health**

Hypothesis

- Prenatal exposure to e-cig aerosols, with and without nicotine, alters transcriptional and inflammatory activity in known metabolic pathways in the hypothalamus that are associated with obesity.

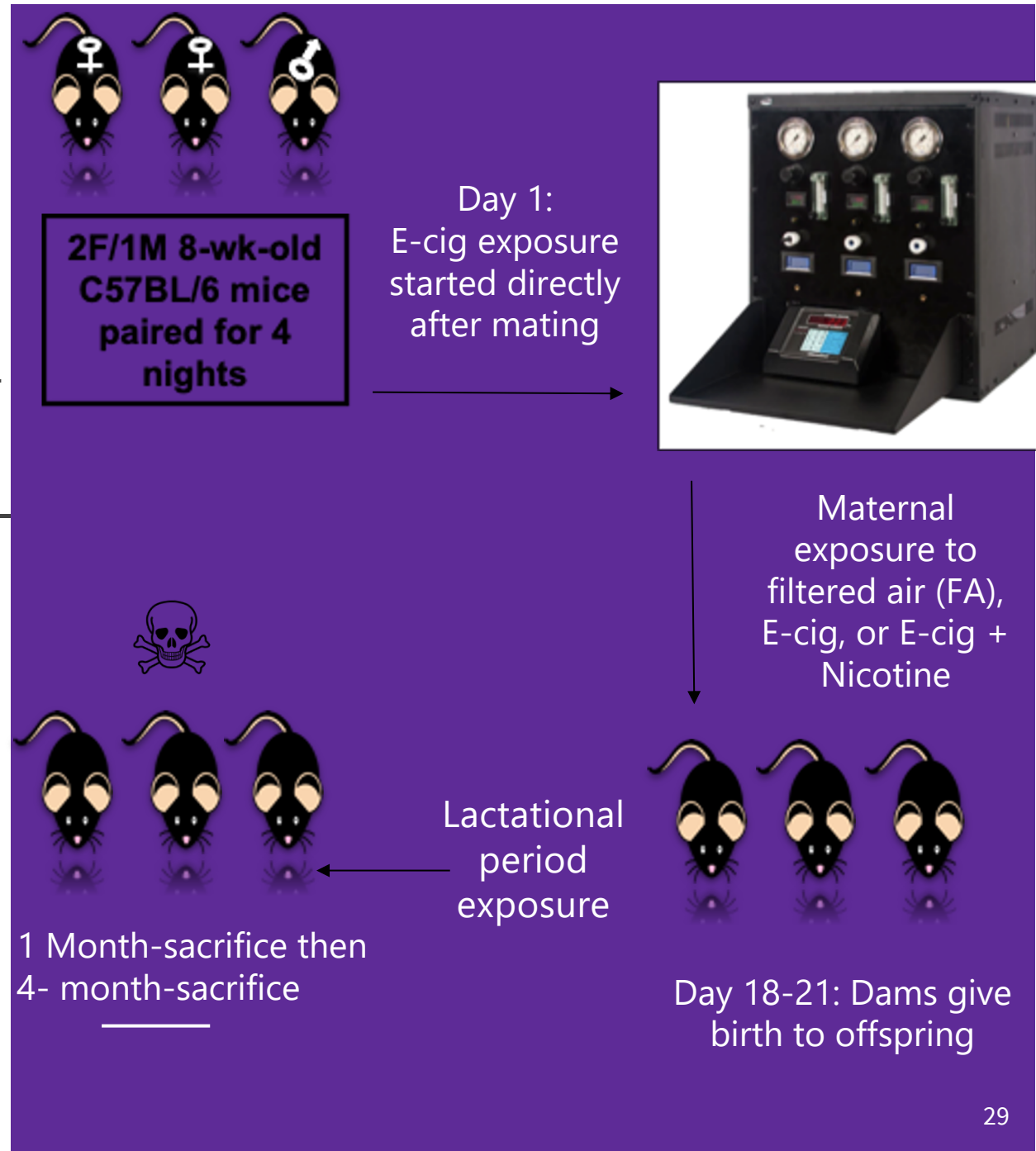
Introduction

The prevalence of electronic cigarette (e-cig) use, also called vaping, has reached epidemic proportions, specifically in young adults and adolescents

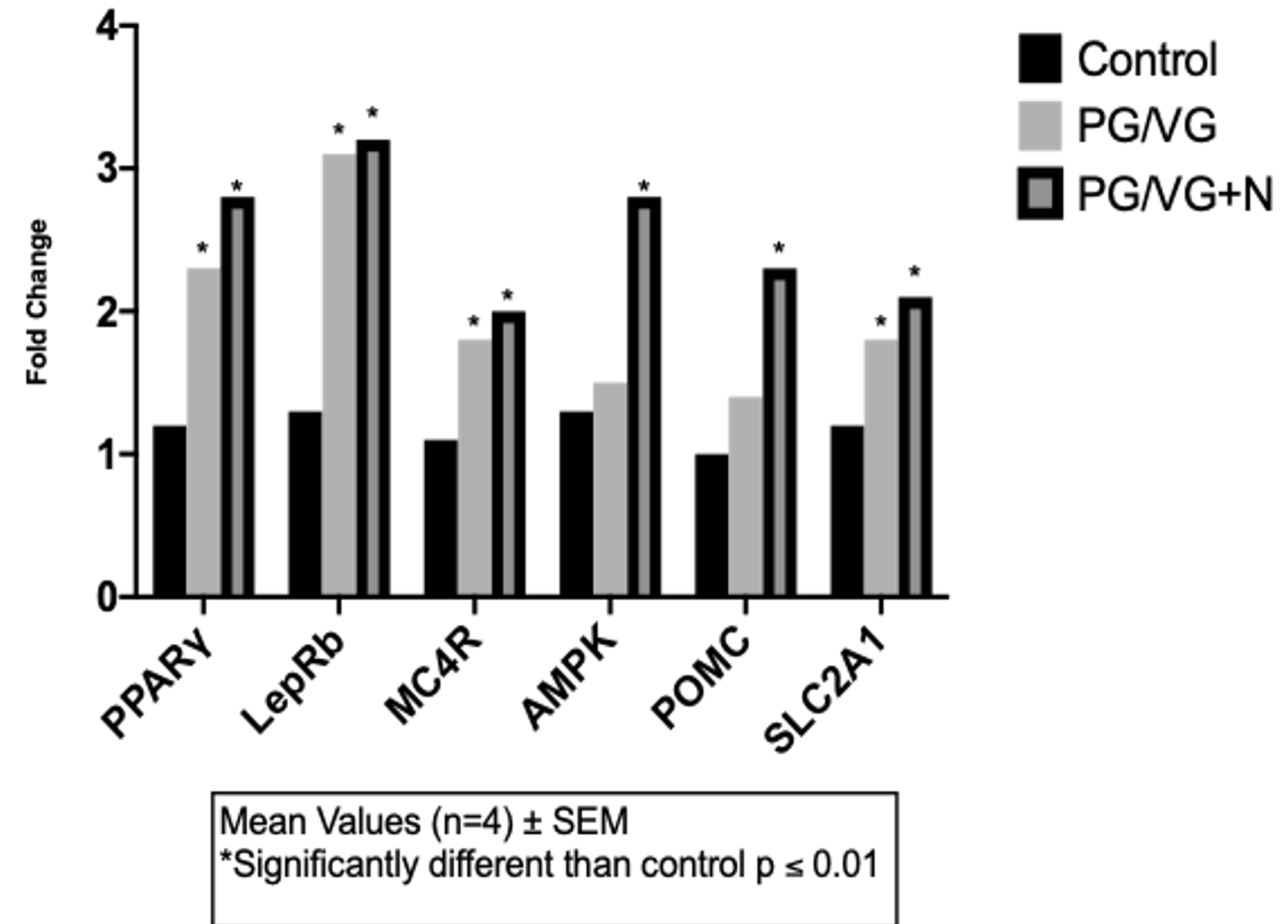
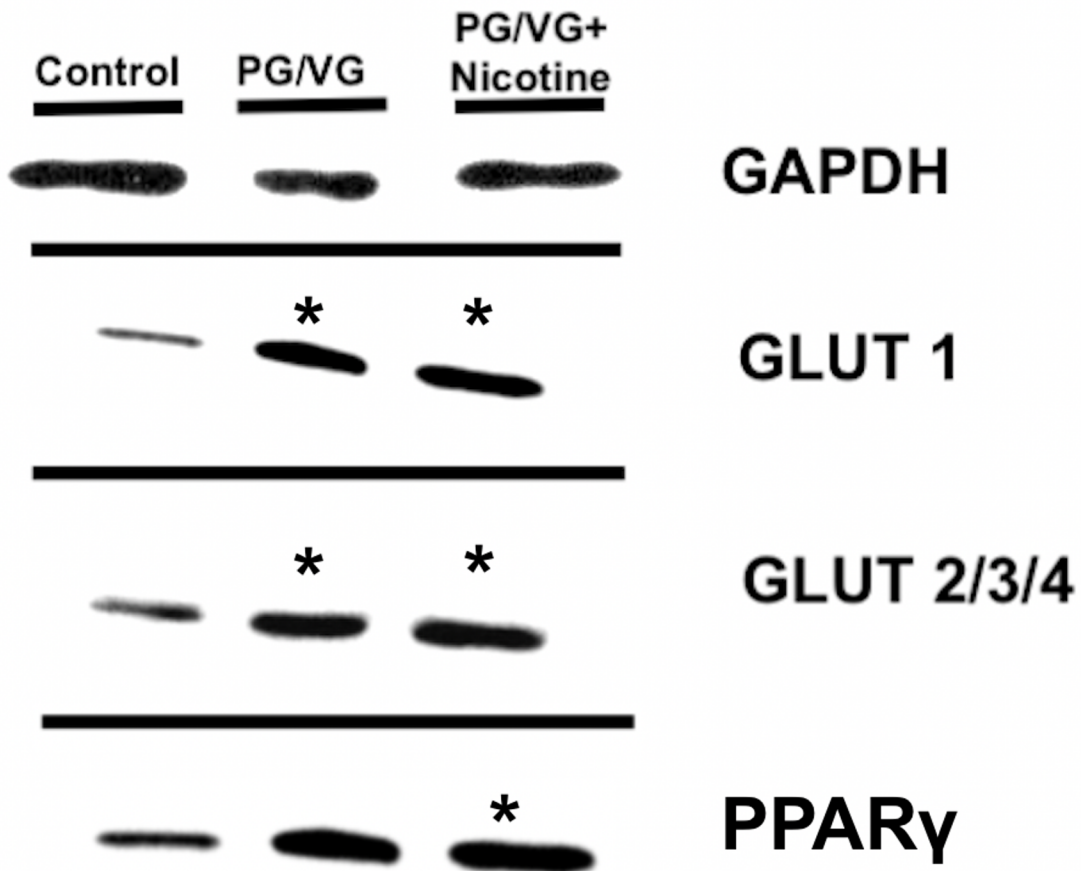
- **Maternal e-cig exposure during pregnancy**
- **Obesity pathways in the hypothalamus**
- **Investigating association**

Experimental Design

- Female C57BL/6 mice housed in polycarbonate cages and paired for 4 nights (2F/1M) at 8 weeks of age
- Females (2/cage) were exposed to e-cig aerosols
 - (with or without nicotine) or filtered air (control)
 - 3hr/d;5d/wk
 - Via whole-body inhalation
 - 3 separate 1m³ flow-through exposure chambers.



Results: Significant Increase in Expression with and without nicotine



Conclusion

- ❖ Development of the hypothalamic circuits that control metabolism can be easily influenced by modifications and certain environmental exposures, such as e-cigs.
- ❖ The increased expression of GLUT-1,2,3,4 reveals an overall enhancement of hypothalamic capacity to metabolize and transport glucose.
- ❖ Glucose levels regulate systemic metabolism via Glucose Transporter-2, which is expressed in hypothalamic astrocytes and is critical in central glucose sensing and regulation of food intake.
- ❖ Maternal and neonatal environmental exposures can affect metabolic functions in the offspring and later in life.

Acknowledgments



- ❖ Dr. Judith Zelikoff!
- ❖ Zelikoff Lab!
- ❖ Dr. Catherine Klein
- ❖ Arab Toxicologist Association Special Interest Group

This study was supported by NYUNIEHS P30ES000260-55.

Opportunities at ATA

❖ There are several opportunities to get involved in ATA!

- Committees positions
 - Award Committee
 - Program Committee
 - Newsletter Committee
- Website
- Newsletter
- SOT Blogs
- Mentoring

❖ Sign-up by filling out the survey!

❖ Sign-up right away!

ATA Program Committee

- ❖ Proposals needed for ATA sponsored:
 - **Symposia**
 - **Continuing education courses (CE)**
 - **Workshops**
 - **Webinars**
- ❖ Consider the most recent and hot topics
- ❖ Submit your ideas to ATA for reviewing by **April 16th, 2021!**
- ❖ Proposal deadlines for 2022 SOT program by **May 17th, 2021 at 11:59 pm (EST- NY time)**
- ❖ Contact:
 - Hanan Ghantous, Hino1951@Live.com



ATA Program Committee

- ❖ Network and talk with others
- ❖ Guidelines and tips are available on 2022 SOT webpage
<https://www.toxicology.org/events/am/AM2022/proposal/preparing-proposals.asp>
- ❖ Don't hesitate to reach out and ask ATA officers and members
- ❖ Authors of the proposal will receive feedback by **April 26th, 2021**
- ❖ Proposal deadlines are restricted by SOT program committee
- ❖ Don't forget 2022 SOT program by **May 17th, 2021 at 11:59 pm (EST- NY time)**



ATA Upcoming Webinar



- ❖ Joined webinar with American Association of Chinese in Toxicology (AACT)
- ❖ The upcoming AACT-ATA webinar event will be posted on the website and SOT social media.
 - Event title: “**Overview of Non-Clinical Safety Assessment for Vaccines and Antiviral Drug Development.**”
 - Date and time: **May 26th , 2021; 9:00 am (EST-NY time)**

Student and Post-Doctoral Representatives



- ❖ “There shall be a student and a postdoctoral representative.....”
 - Interact with toxicologists with established careers in the Arab world
 - Learn about career paths for toxicologists in the Arab world
 - Provide support to the discipline of toxicology
 - Establish foundation for participation on other SOT committees

- ❖ Want more information, seek for session to fulfill your needs, or have an idea for under/grad students, contact our Student and Post-Doctoral Representatives
 - Student Representative: Noor Aly, naly@cvm.tamu.edu
 - Post-Doctoral Representative: Mohamed Ghorab, ghorabmo@msu.edu

Social Media:
[#2021SOT](#)
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Newsletter

❖ Interested in supporting the Website and/or Newsletter?

- Ideas for content include:
 - Current hot topics
 - Job postings, Publications, Meetings
 - Workshops and Webinar Events
 - What's happening with ATA:
 - Awards
 - Finances
- Newsletter: contact Saif Alharthy, saif.alharthy14@my.stjohns.edu
- Newsletters are issued annually; Submitting due **Aug 31st, 2021**
<https://www.toxicology.org/groups/sig/ATA/newsletters.asp>

What is Corona Virus?

Nabil Al-Humadi, PhD
(Pharmacologist/Toxicologist)

Until the outbreaks of severe acute respiratory syndrome CoV (SARS-CoV) (3), middle east respiratory syndrome CoV (MERS-CoV), and more recently SARS-CoV, CoVs were not typically considered to be highly pathogenic in humans. Corona is a single-stranded RNA virus and its size range from 65-125 nanometers. Its genome ranges from 25 to 32 kilobases. Coronaviral genome encodes 4 major structural proteins (all required to produce a structurally complete viral particle) (4):

- 1- Spike (S) protein: Binding
- 2- Nucleocapsid (N) protein: RNA synthesis
- 3- Membrane (M) protein: Organization/assembly
- 4- Envelope (E) protein: Organization/assembly

Figure of corona virus under the electron microscope (5)

Symptoms of corona virus infection include: fever, cough, myalgia/arthritis, headache, and diarrhea.

Number of confirmed COVID-19 cases by date report and WHO region from 30 December 2019 through 13 October 2020 are (6):

Americas: 18,004,043
South-East Asia: 8,053,218
Europe: 7,108,781
Eastern Mediterranean: 2,639,723
Africa: 1,237,088
Western Pacific: 660,559

Currently, there are 170 vaccine in developmental stages. Ten of them are in clinical trials (stage I, II, or III). No specific dates predicted for any vaccine approval. Dr. Fauci suggested the acceptance of a vaccine even at 50% efficacy. However, all scientists are hoping for 70% or more efficacy for a reasonable outcome.

References:

1. Hens N, Kiss IZ, Cori R. 2013.
2. Cai J, Li F, Shi ZL. Origin and evolution of pathogenic coronaviruses. Nat Rev Microbiol 2019; 17(11):181-193.
3. Zhu N, Zhang M, Wang W, Li X, Yang B, He J, Chen H, et al. 2020.
4. Osterholm MT, et al. 2015.
5. Zhou L, et al. 2015.
6. <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports>

The illness COVID-19 is caused by SARS-CoV-2 which is more like SARS-CoV-1 than MERS-CoV. Incubation period for all three of them is 4-6 days.

NEWSLETTER
Volume 1, Issue 1

Arab Toxicologists Association
of the Society of Toxicology

President's Message

Dear ATA Members:

It is my great honor to serve as a president of the Arab Toxicologists Association (ATA). In 2019, ATA has been established after years of sustained hard work and networking and since then growingly played important role in refining and shaping the future of Arab toxicologists in Arabia and world-wide regions. In the years ahead, the role of ATA will become more important, as the global growth engine continues to the need of better understanding of Toxicology. Also, ATA will provide varied materials to enhance everybody's perception of what is going on in the Arab countries. As a special interest group in the Society of Toxicology, we need to work closer together to develop the next generation of Toxicology leaders for the Arab regions. ATA is not only a representative of Toxicology with Arabic origin, but also it connects to all non-Arabic toxicologists who worked and studied the different toxicological aspects related to Arabic areas. Our big goal is to grow networking of Arab toxicologists all over the globe and provide necessary resources to improve their work ethics and knowledge. By taking this opportunity, I want to request that you consider applying to the ATA membership, if you are not member already. Your membership and support go a long way to propel this association to the next level to meet the ATA's mission and vision.

Finally, in addition to expressing gratitude to our members for their participation in our program, and the formal and informal networking that all of us find invaluable, I wanted to thank all SOT Headquarter staff for their support and counsel during establishing ATA and I look forward to work together to grow and publicize the ATA globally

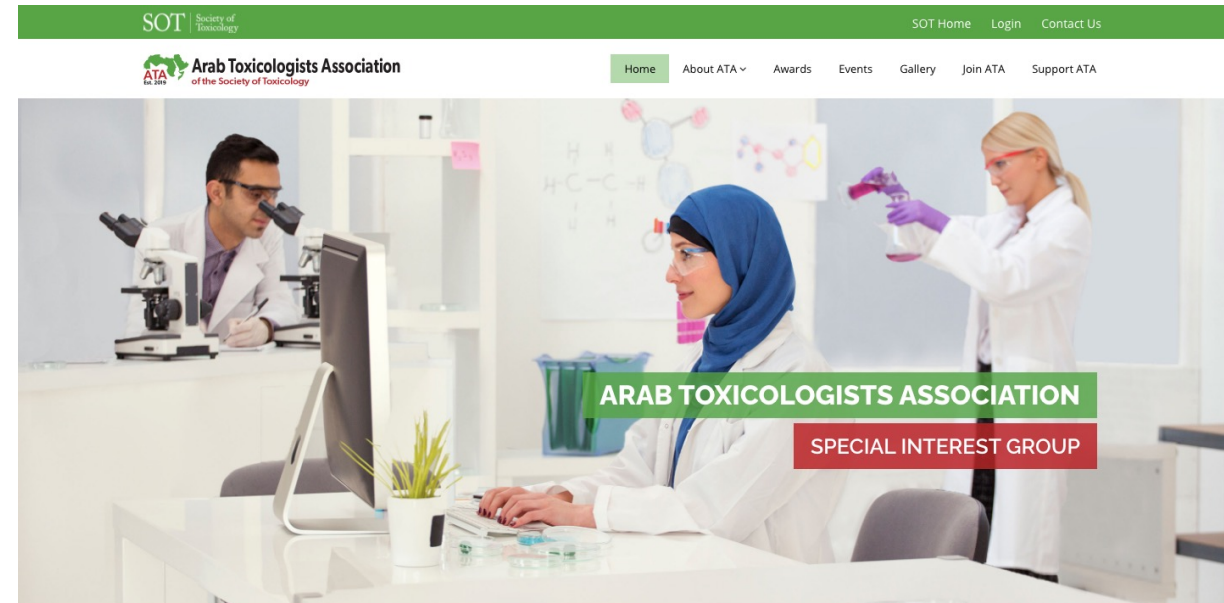
Hasan Fahad Khashf Alghetha, PhD,
ATA President 2020-2021

Social Media:
#2021SOT
#ATA_SOT

Website

❖ Interested in supporting the Website and/or Newsletter?

- Ideas for content include:
 - Sites of Interest
 - Current and previous events
 - Annual reports
 - Photo gallery
 - ATA sponsors
 - ATA Awardees



- Website: contact Hadil Almuhsen, hadilm@tamu.edu

Financial Support

- ❖ Our assets at the end of 2020 are **3254\$**
- ❖ ATA needs financial support from members and industries
 - To promote the ATA mission
 - To support ATA members on their achievements
- ❖ ATA support submitted directly to SOT by filling out the form on the website
<https://www.toxicology.org/groups/sig/ATA/support.asp>
- ❖ Industries will be acknowledged in all ATA events and on the ATA-SOT website
- ❖ If you need more information or you wish to create endowments funds in recognition of a contributor scientist in such a field contact:
 - Hasan Alghetaa fatosh_2001@yahoo.com
 - Hadil Al Muhisen hadilm@tamu.edu



Membership Benefits

- ❖ SOT Job Bank
<https://jobbank.toxicology.org/>
- ❖ Career development webinars
- ❖ SOT Continuing Education Courses Online
<https://www.toxicology.org/education/ce/onlineCourses.asp#courses>
- ❖ ATA SIG members have diverse interest and global experts
To join <https://www.toxicology.org/groups/sig/ATA/join-us.asp>
- ❖ Connect ATA members with other Arab and non-Arab toxicologists experts
- ❖ SOT offers a discount for members from developing countries
<https://www.toxicology.org/groups/membership/types.asp>
- ❖ Meet new (and old!) friends

Keep It In Your Mind

Important Deadlines

Proposal Submission Deadline: May 17, 2021

Registration and Housing Open: August 2, 2021

Awards Deadline: October 9, 2021

Abstract Submission Deadline: October 15, 2021

SOT

**61ST ANNUAL MEETING
& TOXEXPO • SAN DIEGO, CA
MARCH 27-31, 2022**

<https://www.toxicology.org/2022>

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[#ATA_SOT](#)



Arab Toxicologists Association

of the Society of Toxicology

NOTIFICATION SETTINGS

Yes ☐

Automatically set community discussion emails to "No Email" when a community is added to a consolidated digest.

8 Communities

COMMUNITY NAME A-Z ▾

COMMUNITY	DISCUSSION EMAIL	CONSOLIDATED DAILY DIGEST	CONSOLIDATED WEEKLY DIGEST
Arab Toxicologists Association	REAL TIME ▾	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arab Toxicologists Association - Leadership	NO EMAIL ▾	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graduate Student Announcement Topics	REAL TIME ▾	<input type="checkbox"/>	<input type="checkbox"/>
Lone Star	NO EMAIL ▾	<input type="checkbox"/>	<input type="checkbox"/>
Molecular and Systems Biology	NO EMAIL ▾	<input type="checkbox"/>	<input type="checkbox"/>
Reproductive and Developmental Toxicology	REAL TIME ▾	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Toxicologists of African Origin	NO EMAIL ▾	<input type="checkbox"/>	<input type="checkbox"/>
Women in Toxicology	REAL TIME ▾	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Social Media:
#2021SOT
#ATA_SOT



Arab Toxicologists Association

of the Society of Toxicology

We want to hear from you!
Please share suggestions and feedback

Email us:

- Hasan Alghetaa fatosh_2001@yahoo.com
- Hanan Gbantous Hino1951@Live.com
- Amira Mohammed Dr.amirakamil@covm.uobaghdad.edu.iq
- Nabila Saber nabilasaber@yahoo.com
- Hadil Almuhsen hadilm@tamu.edu
- Saif Alharthy saif.alharthy14@my.stjohns.edu
- Noor Aly naly@cvm.tamu.edu
- Mohamed Ghorab ghorabmo@msu.edu

Survey:

https://docs.google.com/forms/d/1keirqqC5_kDT9iqEBQ9Ddj57fnajRjeDQ3sTgGidNz8/viewform?edit_requested=true

Social Media:

#2021SOT
#ATA_SOT



Arab Toxicologists Association

of the Society of Toxicology

Let's get to know you!

**Open discussion,
Virtual picture**

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[#ATA_SOT](#)



Arab Toxicologists Association

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Thank you for joining us and looking forward to see you in person again!

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