

American
Association of
Chinese in
Toxicology



北美中華毒理協會

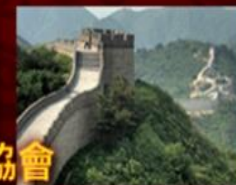
American Association of Chinese in Toxicology (AACT)

Annual Business Meeting

March 24, 2021

Agenda

AMERICAN
ASSOCIATION OF
CHINESE IN
TOXICOLOGY



北美中華毒理協會

- ☞ Welcome & Greetings
- ☞ Business meeting
 - President's report
 - Finance report
 - Election report
 - Award presentation
 - Appreciation for outgoing board members
 - Incoming President Speech
- ☞ Sponsor Presentations
- ☞ Reception & Closing Remarks

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President's Report

Yongbin Zhang



AACT has 224 members, 3rd largest Special Interest Groups



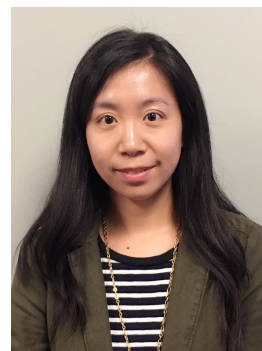
Yongbin Zhang
President



Nan Mei
President-Elect



Tao Wang
Past President



Weimin Chen
Secretary



Cleo Leung
Treasurer



Xiaoqing Guo
Councilor



Quanshun Zhang
Councilor



Hao Chen
Postdoc Rep



Zunwei Chen
Student Rep

Inaugurated SOT Award Nomination Committee

- ❖ To promote the recognition of accomplished toxicologists of Chinese origin by nominating them for SOT awards
- ❖ Submitted 3 nomination packages in 2019; each nomination package stays active for three years
- ❖ **One of three AACT nominations Won in 2020**
 - **Dr. Shuk-Mei Ho (Vice Chancellor for Research, UAMS) won 2020 SOT Distinguished Toxicology Scholar Award!!**
- ❖ Submitted one new nomination package in 2020, and updated one package submitted in 2019

AACT Board would like to encourage all toxicologists in Chinese origin to be forthright and proactive in recognizing yourself or your colleagues' accomplishment!



Building opportunities beyond annual meeting – Career Development

- ❖ AACT survey indicates a main reason for toxicologists to join AACT is to enhance career development opportunities
- ❖ Board discussed how to strengthen network opportunities and promote career development for students, postdocs and junior scientists, and how to facilitate a long-term AACT mentor-mentee relationships
- ❖ **Build a mentor-mentee match system**
 - 1st step: build a mentor pool
 - 2nd step: mentee match
 - Up to mentor and mentee to maintain their communications and mentoring relationship
- ❖ Thirteen mentors have signed up

AACT Board would like to encourage students, postdocs and scientists to utilize this opportunity.

Building opportunities beyond annual meeting - **Networking**

- ∞ The AACT membership survey indicated that our members most value the networking opportunities provided by our SIG
- ∞ Facilitate regional get-together events to increased local contacts that open doors to new opportunities for business collaborations, career advancement and personal professional growth
- ∞ **Regional membership forums in ToXchange have been created for AACT members in the following areas**
 - AACT Members - Shanghai, China
 - AACT Members - Jefferson, AR
 - AACT Members - San Francisco, CA Bay Area
 - AACT Members - DC Metro Area
 - AACT Members - Research Triangle Park, NC
 - AACT Members – New York City
 - AACT Members – New Jersey

AACT Webinars (2019-2021)

- ☞ Webinar on Feb 26th, 2020
 - Immunotoxicology: History and Current Advancements
 - Speaker: **Kenneth L. Hastings, DrPH, DABT, ATS**
- ☞ Webinar in April, 2020
 - Safety of food from genetically modified food
 - Speaker: **Jian-Mei Zhu, PhD** FDA/CFSAN
- ☞ Upcoming webinar in May, 2021
 - Overview of Non-Clinical Safety Assessment for Antiviral Drugs and Vaccines Development
 - Speakers: **Hanan Ghantous, PhD, DABT, ATS** FDA/CDER
Al-Humadi, Nabil, PhD FDA/CBER

Outreach Activities in China

- ❖ **AACT Delegation (Sophie Jia, Ed Chow, Hua Shen, Shuyan Lu and Jiongjie Jing)**
 - Attended 9th National Toxicology Congress of Chinese SOT in 2019
 - Conducted a workshop with ShanXi Medical University
 - SOT awarded AACT \$4000 to support outreach activities in China
- ❖ **Toxicology Seminar (ShanXi University Medical School: Sophie Jia)**



Acknowledgements

Committees	Chair	Members & Volunteers
SOT award nomination committee	Tao Wang Yongbin Zhang Nan Mei	Xuefei Cao, FDA/NCTR Xuegen Wang, UNC Greensboro Xiaoqing Guo, FDA/NCTR Zhenquan Jia, UNC Greensboro Sophie Jia, Chevron Phillips
AACT award committee	Weimin Chen (2021) Li Zhan (2020)	Gao Dong, Pfizer Inc Tong Zhou, FDA/CVM Huaizhong Hu, Konruns Pharmaceutical Ltd Yongbin Zhang, FDA/CDER Weimin Chen, Bristol Myers Squibb Yi Tan, University of Louisville Xiaoqing Guo, FDA/NCTR
Finance committee	Cleo Leung	Tao Wang, Yongbin Zhang, Nan Mei, Weimin Chen, Sophie Jia, Quanshun Zhang, Xiaoqing Guo
Election committee	Tao Wang (2021) Sherwin Yan (2020)	Nan Mei, Cleo Leung, Hanna Ng, Zunwei Chen Tao Wang
Newsletter/Website	Hao Chen, Zunwei Chen; Ren Zhen, Yuwei	
SOT Liaison	Ashley Black; Rosalie Duvic	



Financial Report

Cleo Leung





AACT Financial Status

- AACT is on a strong financial footing during the year of 2018-2020.
- General Fund: 2020-year end balance of \$65,599 (46% increase over 2018)
- Jean Lu Endowment Fund: 2020-year end balance of \$46,026
- Spending: 2019-2020 awards, global outreach, and career workshop (\$4,871).



AACT 2019-2020 Fundraising Update

- Goal: Expand the list of sponsors and raise funding to support more AACT activities
- Up to date, AACT raised \$ 12,500



Shout-out to Our 2019-2021 Sponsors!

Gold Sponsors



昭衍
JOINN



WestChina-Frontier PharmaTech



Shout-out to Our 2019-2021 Sponsors!

Silver Sponsors



Shout-out to Our 2019-2021 Sponsors!

Bronze Sponsors



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Election Report

Tao Wang

AACT 2020 New Officers Elections

☞ Election Committee

- Chair: Tao Wang
- Nan Mei, Cleo Leung, Hanna Ng and Zunwei Chen

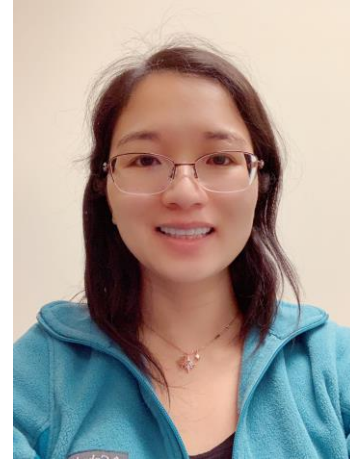
☞ Open positions

- President-Elect (1)
- Councilors (2)
- Student representative (1)

Congratulations to newly elected AACT Board Members



President-Elect
Xi Yang, FDA-CEDR



Councilor
Xiefan Fang, Charles River Laboratory



Councilor
Dongying Li, FDA-NCTR



Student Representative
Shengjie Xu, Rutgers University

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Award Presentation

Weimin Chen

Distinguished Chinese Toxicologist Lectureship Award

*In recognition of outstanding achievements as a scientist,
and leader in toxicology*

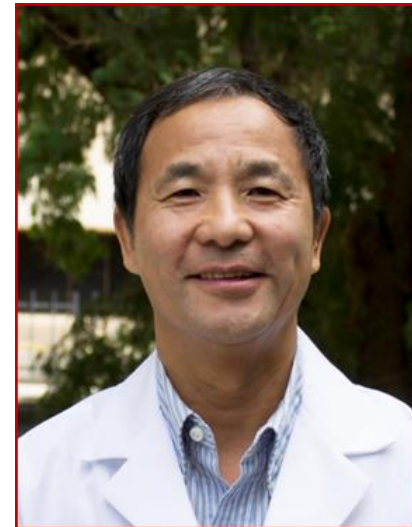
2020



Lu Cai, MD, PhD

Professor, Director of Pediatric Research
Institute
Department of Pediatrics
University of Louisville School of Medicine
Louisville, USA

2021



Ke Jian "Jim" Liu, PhD

University Distinguished Professor
Associate Dean for Research
College of Pharmacy
University of New Mexico
New Mexico, USA

Jean Lu AACT Student Scholarship Award

- Established in 2008
- Initial generous gift from Dr. Frank C. Lu, a charter member of SOT, in memory of his wife, Jean Lu.



Jean Lu



Frank C. Lu

Jean Lu Student Scholarship Award

In recognition of outstanding academic achievement in the field of toxicology and who has provided leadership and service

2020



Liang Chi, BS
**University of North Carolina
at Chapel Hill**
Mentor: Kun Lu, Ph.D

2021



Shengjie Xu, BS
Rutgers University – Piscataway, NJ
Mentor: Joseph Antony Jude, Ph.D

AACT-InnoStar Best Abstract Award

Third Place

2020



Zunwei Chen, PhD
Texas A&M University

- ☞ **Title:** High-content and -throughput 3D mouse embryonic stem cell spheroid cultures for characterizing the developmental toxicity potency of chemicals
- ☞ **Mentor:** Ivan Rusyn, MD, PhD

2021



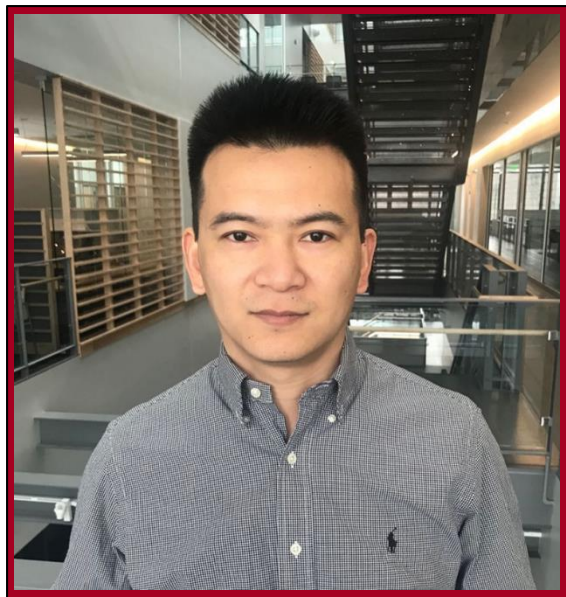
Wei-Chun Chou, PhD
Kansas State University

- ☞ **Title:** 1). Development of a web-based interface to facilitate nanomedicine design and safety assessment through the prediction of biodistribution of nanoparticles; 2). Development of an interactive generic physiologically based pharmacokinetic (igPBPK) modelling platform to predict drug withdrawal intervals in food animals
- ☞ **Mentor:** Zhoumeng Lin, PhD

AACT-InnoStar Best Abstract Award

Second Place

2020



Yong Pu, PhD

Michigan State University

- ☞ **Title:** A 3-Dimensional Microfluidic Platform for Modeling Human Extravillous Trophoblast Invasion and Toxicological Testing
- ☞ **Mentor:** Almudena Veiga-Lopez, PhD

2021



Gabriel Tao, BS

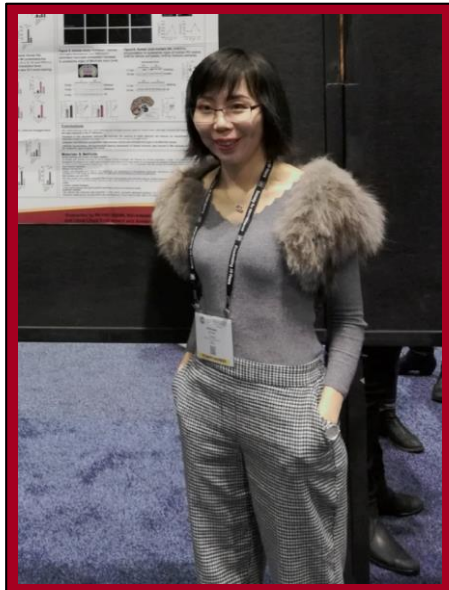
University of Houston

- ☞ **Title:** Irinotecan decreases intestinal UDP-glucuronosyltransferase (UGT)1A1 via TLRs/MyD88 pathway: a novel mechanism of chemotherapy-induced diarrhea
- ☞ **Mentor:** Romi Ghose, PhD

AACT-InnoStar Best Abstract Award

First Place

2020



Minhong (Neenah) Huang, MS

Iowa State University

- ∞ **Title:** Mitochondrial Dysfunction Induces Epigenetic Dysregulation by H3K27 hyperacetylation to Perturb Active Enhancers in Parkinson's Disease Models
- ∞ **Mentor:** Anumantha Kanthasamy, PhD

2021



Qian Lin, PhD

University of Louisville School of Medicine

- ∞ **Title:** A non-mitogenic FGF1^{ΔHBS} variant protects from nonalcoholic fatty liver disease via activating AMPK-mediated pathways
- ∞ **Mentor:** Yi Tan, PhD

New AACT Award Starting in 2022

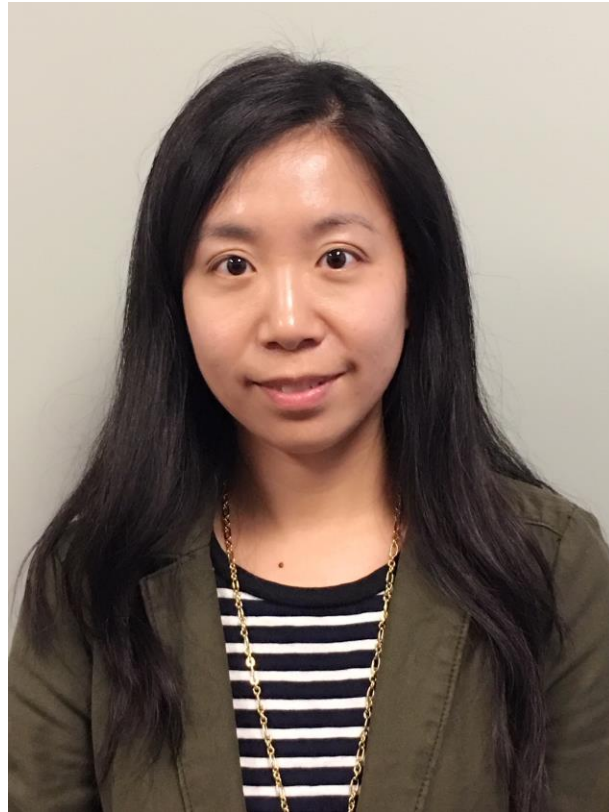
- ∞ **NEW AACT Outstanding Young Investigator Award**
 - An individual who has made significant contributions to the toxicology field in the early stage of their career
- ∞ **Jean Lu Student Scholarship Award** – two awards to be given

Appreciations for Outgoing Board Members



Tao Wang

Appreciations for Outgoing Board Members



Weimin Chen

Appreciations for Outgoing Board Members



Cleo Leung

Appreciations for Outgoing Board Members



Zunwei Chen

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Looking Forward

Nan Mei, MD, PhD

AACT President 2021-2022

2021-2022 AACT Board Officers

President:	Nan Mei
President-Elect:	Xi Yang
Secretary:	Xiaoqing Guo
Treasurer:	Quanshun Zhang
Immediate Past President:	Yongbin Zhang
Councilor:	Xiefan Fang
Councilor:	Dongying Li
Postdoc Rep:	Hao Chen
Student Rep:	Shengjie Xu

SOT 2019-2023 Strategic Plan

Strengthen SOT's Impact on Science and Public/Environmental Health

A

Maximize SOT's Prominence within the Scientific Community

A1 Promote Transdisciplinary Science & Cooperation with Other Disciplines

A2 Implement Forward-Looking Strategy for Meetings and Continuing Education

A3 Implement Forward-Looking Strategy for Publications and Issue Statements

A4 Expand Global Outreach, Engagement, and Collaboration

B

Build the Capabilities and Effectiveness of SOT Membership

B1 Develop a Robust Pipeline of Scientists Engaged in Toxicology

B2 Provide Opportunities to Capitalize on Scientific Advancements

B3 Develop Leadership and Communication Skills among Members

B4 Facilitate Career Development Using Mentoring and Other Approaches

C

Increase SOT's Influence through Science Communication

C1 Develop and Implement Strategy for Communication and Engagement

C2 Develop Communication Partnerships with Key Influencers

C3 Promote Use of Science in Decision Making

C4 Increase Engagement Using Audience-Specific Communication Technologies

D

Strengthen Organizational Effectiveness and Sustainability

D1 Develop and Implement Process to Set Long-term Strategic Direction

D2 Optimize Organizational Efficiency

D3 Improve Internal Communication Using State-of-the-Art Approaches

D4 Enhance Engagement of Our Diverse, Global Membership



May 1, 2021 – April 30, 2022

➤ **Webinar: in May, and more topics and speakers?**

➤ **October: ASIATOX**



➤ **December: AACT Awards** <https://www.toxicology.org/groups/sig/aact/index.asp>

➤ **January: 2022 Election** **President-Elect, 2 Councilors, Postdoc Representative, Student Representative**

➤ **March 27–31, San Diego, CA**



Reception

➤ **If you have any suggestions, please contact Nan Mei at nan.mei@fda.hhs.gov or 870-543-7386**

Sponsor's Presentations



Biomere-Joinn Labs
Richmond, CA

Biomere-Joinn Labs
Worcester, MA

Joinn Labs
Suzhou, China

Joinn Labs
Beijing, China

Joinn Labs
Wuzhou, China

Joinn Labs
Chongqing, China



JOINN Labs
Spanning the Globe





Preclinical Safety Assessment

- Pharmacology & pharmacodynamics
- Pharmacokinetics
- General toxicology
- Genotoxicity
- Safety pharmacology
- DART - Seg I, II, III
- Carcinogenicity
- Stem cells/CAR-T
- Inhalation and Ocular toxicity
- Supporting global IND filing

Drug Discovery

- Early-stage non-glp safety assessment
- Efficacy
- Pharmacokinetics





- Richmond, CA
- 55,000 sq. ft. vivarium space
- Custom or existing lab space
- Our scientific team or yours
- PK/PD in vivo study expertise
- In vitro cell based assays
- Genetically modified animal program



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Reception

Closing Remarks