



MTF

Medical Toxicology Foundation

ANNUAL REPORT 2016



The Path to Propel Medical Toxicology Even Further

Charles McKay, MD, FACMT, has a long-standing fascination with the interaction of toxicants and the human body – and a high level of respect for those who advance this specialty – resulting in improved patient care and a better understanding within the field of medicine. As the incoming President of the ACMT, Dr. McKay’s excitement and concern for medical toxicology is evident.

“When you think about it, medical toxicology is a very small field in medicine,” he said. “Yet everything that is done to the body (treatment with medications, environmental encounters with plants or animals, air/soil/water contaminants and implanted materials) invokes concerns about toxicology. Therefore, we have the potential for some involvement with every other medical and surgical specialty. We are – or should be – in a position to help patients, regulators and policy makers address a number of concerns of daily living. This requires awareness, funding and advocacy from those in our field. We are the ones who will propel our field even further.”

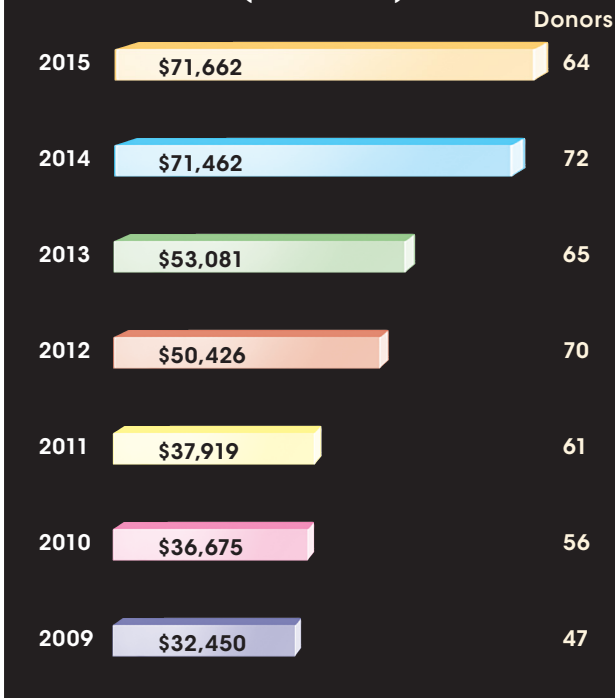
Dr. McKay’s belief in the purpose and functions of the MTF and the ACMT, along with the work of all toxicologists, is so strong he opted to retire from Hartford Hospital – his employer for nearly 30 years – to devote more time to the united goals of the ACMT and MTF. These missions must be advanced soon, he said, considering the ongoing and potential future changes in the healthcare landscape.

“I believe that, given the changes in medical practice and payment these last few years, we have an important, but time-limited, opportunity to assist the other medical specialties in achieving better healthcare ... which is much different than more healthcare,” he said. “Our role as medical toxicologists should be to advance into more areas of healthcare. But that window may be closing. When you look at the possible changes to insurance policies and plans, you don’t see medical toxicology being consulted as an integral part. This has to change.”

To bring about this type of change, the MTF needs financial support to help fund research and education that can spur discovery and expansion of the field. Dr. McKay has been a significant donor to the MTF since its inception and knows that it is through the generous donations of ACMT members and those beyond that strides can be made in areas that are most in need. To help achieve that goal, ACMT and MTF have recently brought

(continued on page 4)

MTF Donation Summary (2009-2015)



ACMT and MTF Hires its First-ever Director of Philanthropy and Business Development

In June 2016 ACMT and MTF hired Leslie Lindquist, MBA, CFRE as its first-ever Director of Philanthropy and Business Development. Leslie is an experienced strategic planner, Development officer and grant writer with over 25 years in biotechnology, high technology and managed healthcare environments.

She states, “I have never met a donor or a grant application that I didn’t like!” and she has met thousands while raising funds through grants, annual fund programs, major gifts, planned giving, capital campaigns and special events. Working alongside board members and with the ACMT/MTF team, she will be implementing numerous diversified revenue programs for a healthy financial future.

Dear Friends,

In September, I completed a two-year term as Board President for ACMT/MTF. Though my time of service in this role is ending, I look forward to continuing sharing my volunteer time and talents as the MTF embarks upon new directions in philanthropy and focus, which includes research and education to address one of our society's scariest topics.



A few weeks ago, I was interviewed on a local Cincinnati radio station about the heroin epidemic. In a 48-hour period in August, there were 78 heroin overdoses reported in Cincinnati, resulting in three deaths. In general, there are about 40 overdoses every day in my area of the country ... a staggering statistic. Carfentanil has made its appearance on the scene in Cincinnati and is claiming more lives every day as a "contaminant" in the heroin distributed locally. I am very proud of ACMT and the MTF for arming our toxicologists with education and resources in addiction medicine to mount a defense for this battle. As the epidemic of addiction continues to gain momentum, awards from the MTF to fund research in this area can make a significant difference in patient outcomes.

Katherine "Katie" Boyle, MD, from the University of Massachusetts, was the Inaugural MTF Prescription Drug Abuse Prevention Research Award grantee in 2014.

Katie states, "The MTF award was the first grant funding I was awarded. My project focused on developing a curriculum for emergency medicine residents on safe and effective opioid prescribing. My experience in learning how to manage a budget, research staff and take a project from concept to completion was essential in the drafting of my NIH loan repayment program proposal."

Building upon her MTF award, she adds, "The proposal I did for the NIH loan repayment program is actually the project I presented at the Fellows-in-Training research forum in Clearwater Beach, Florida at the ASM in 2015. It is called 'iNarx: Identifying opioid overdose through naloxone geocoding.'

Katie shared with me that her goal with this research is to identify temporal, population and environmental trends in opioid overdose by analyzing naloxone use by first responders. She added that her grant is complete and that the manuscript will soon be submitted to the Journal of Medical Toxicology. And, she excitedly reported, "I did just learn that my NIH Loan Repayment Program award in opioid abuse was funded, if you want an example of how the funding helped further a research career!"

As you can see, the MTF's funding opportunities carry with them real impact for the field of medical toxicology and for society. Congratulations to Katie and to all others who continue to pursue answers to help solve toxicology issues that can have a direct and lasting impact in our communities.

Sincere regards,

Leslie Dye, MD, FACMT
President, MTF

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MTF BOARD OF DIRECTORS

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MICHAEL P. SPADAFORA Travel Award Winners

- 2016** Adrienne R. Hughes, MD – Emergency Medicine Resident, University of Washington
- 2015** Aaron Fields, MD – Emergency Medicine Resident, University of Rochester Medical Center.
- 2014** Rachel Wightman, MD – Emergency Medicine Resident, New York University
- 2013** Gillian A. Beauchamp, MD – Emergency Medicine Resident, University of Cincinnati. Medical Toxicology Fellowship, Oregon Health and Science University, 2014-16.
- 2012** Hallam M. Gugelmann, MD – Emergency Medicine Resident, University of Pennsylvania. Medical Toxicology Fellowship, University of California San Francisco, 2013-15.
- 2011** Travis Olives, MD – Emergency Medicine /Internal Medicine Resident, Hennepin Medical Center. Medical Toxicology Fellowship, Regions Hospital/Hennepin Medical Center, 2014-16.
- 2010** Jared W. Pelo, MD – Emergency Medicine Resident, University of Virginia School of Medicine.
- 2009** Fiona M. Garlich, MD – Emergency Medicine Resident, Hennepin Medical Center. Medical Toxicology Fellowship, New York University School of Medicine, 2010-12; Board Certified in Medical Toxicology, 2012.

2016 MTF GRANTS AWARDED

In total, as of October 2016, more than \$144,000 MTF grants and awards were presented to worthy recipients. All of these donations are made possible through the generosity of our donors. We appreciate your support and request that you consider once again.



Michael P. Spadafora Travel Award

Adrienne R. Hughes, M.D. –
Emergency Medicine Resident,
University of Washington (\$1,500)



Travel Scholarship for Under-represented Minorities

Tricia Smith, M.D. – Emergency
Medicine Resident, University of
Connecticut (\$1,500)

EMF/MTF Joint Research Grant

Christina Nussbaum, M.D. – Brody
School of Medicine, East Carolina
University, Greenville, NC (Mentor:
William Meggs, M.D., Brody School of
Medicine (\$10,000).

Protocol: Naltrexone as an antidote to prevent delayed neuropsychological disabilities from acute poisoning with the sarin analogue diisopropylfluorophosphate.



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Medical Toxicology Foundation

Awards Given from 2009-2016

NAME OF AWARD	Number Given	Amount
Michael P. Spadafora Travel Award	8	\$ 11,500
Travel Scholarship for Underrepresented Minorities	7	\$ 10,500
EMT/MTF Joint Research Grant	4	\$ 20,000
Innovative Teaching Award	1	\$ 5,000
Practice Award	2	\$ 10,000
Best Presentation Award	6	\$ 2,500
FIT Research Travel Award	21	\$ 23,650
Prescription Drug Abuse & Prevention Award	2	\$ 10,000
MTF Teaching & Research Awards	5	\$ 50,964
TOTAL	56	\$144,114



MTF Research and Teaching Award

(formerly, Innovative Teaching Award)
Peter Chai, M.D. – University of
Massachusetts Medical School,
Worcester, MA (\$10,000).

Protocol: Naloxone Distribution Patterns in Patients with a History of Heroin Abuse.



Lines from Leslie

Momentum.

This one word illuminates the path for exciting work ahead and for transformational change.

As the new Director of Philanthropy and Business Development for both the ACMT and the MTF, my purpose is to create energy that moves both of these groups forward and stimulates new forms of giving. In my role I am called upon to identify ways to increase giving

from private and corporate foundations to help fund our valuable work and stimulate ideas. This funding can help start and maintain programs that result in sustainable donations from individuals living, working and creating energy in the communities where our work is carried out. It can help promote and create communication that reaches people who understand why medical toxicology is important and why we deserve their charitable support. I am excited to see the impact that increased donations to the MTF can make in the field of medical toxicology.

Your mission as a medical toxicologist motivates donors to support research, education, training and more to advance the science, practice and impact of medical toxicology. That's what I call movement in the right direction!

I have already pledged a donation and will join the President's Circle with my 2016 Annual Fund gift, recognizing that each and every dollar given to the MTF is a dollar used to advance each member's passion and mission. I invite you to create momentum through your gift and encourage family, friends, peers and colleagues to also give. We will all then share in the same purpose: Giving today ... for a better tomorrow.

Kind regards,

Leslie Lindquist
Director of Philanthropy and Business Development

Leslie Lindquist on the team as the Director of Philanthropy and Business Development.

"Particularly in medical toxicology there are so many areas where we practice or impact individuals, hospital and community systems, and the greater public health arena," Dr. McKay added. "We just have to provide financial support to the ACMT's and MTF's efforts to be present in those areas.

"The area of opioid overdoses is one that I think is very important. We have developed educational materials within the ACMT to help healthcare providers and law enforcement members address the massive drug abuse issue, but education is only one aspect to address this epidemic. Increased availability and proper utilization of naloxone - so people can live to make a better decision tomorrow, and wider use of buprenorphine in medication-assisted treatment programs are other important facets."

With the relatively small number of medical toxicologists in the country - just over 500 - it is important that toxicologists work together and with partners to seek out funding for research. Dr. McKay supports self-advocacy in regards to this.

"I would challenge our members - if they don't feel that their area of interest in toxicology has an adequate voice - look to the MTF and propose something!" he said. "Or make use of current funding available in one of our awards. This is how we will continue to make an important difference in the lives of patients and the medical community.

"We know how relevant medical toxicology is. But by being proactive with our research or educational opportunities we can increase others' awareness and advance our field to even greater heights."



MAKE A TAX-DEDUCTIBLE GIFT TO SUPPORT THE FUTURE OF MEDICAL TOXICOLOGY

The Medical Toxicology Foundation is a not-for-profit charitable organization affiliated with the American College of Medical Toxicology and is intended to provide ACMT members, the general public and commercial sponsors with a tax deductible mechanism to support Medical Toxicology. Your gift to the Medical Toxicology Foundation - a 501(c)(3) educational organization - is tax-deductible to the fullest extent allowable by law.

PLEASE MAKE ALL CHECKS PAYABLE TO THE **MEDICAL TOXICOLOGY FOUNDATION**;
10645 N. TATUM BLVD., SUITE 200-111; PHOENIX, AZ; 85028

- Friend (\$150)
- Patron (\$500)
- President's Circle, Platinum (\$2,500)
- Other _____
- Sponsor (\$250)
- President's Circle (\$1,000)
- Benefactor (\$5,000)

Name: _____

 Address: _____

 CITY STATE ZIP

2016 MTF RESEARCH AWARD PROGRESS UPDATE

2016 MTF AWARDS

2016 MTF Innovative Research and Teaching Award (\$10,000)



PI: **PETER CHAI, MD**,
University of Massachusetts Medical
School, Worcester, MA.

*Protocol: Naloxone Distribution Patterns
in Patients with a History of Heroin Abuse.*



2016 EMF-MTF Toxicology Research Award (\$10,000)

PI: **CHRISTINA NUSSBAUM, MD**
Brody School of Medicine, East Carolina
University, Greenville, NC
(Mentor: **William Meggs, MD**,
Brody School of Medicine).

*Protocol: Naltrexone as an antidote to
prevent delayed neuropsychological
disabilities from acute poisoning with the
sarin analogue diisopropylfluorophosphate.*

2016 PUBLICATIONS AND ABSTRACTS FROM RECENT GRANTS

Randomized Controlled Study Comparing High Dose Insulin (HDI) to Vasopressors or Combination Therapy in Refractory Toxin-Induced Cardiogenic Shock (TICS). KG Katzung, JM LeRoy, SP Boley, AJ Thomas, SJ Stellpflug, JS Holger, KM Engebretsen. *J Med Toxicol* 2016;12:3 (2014 MTF Innovative Research and Teaching Award).

Efficacy of Hydroxocobalamin as Treatment for Nifedipine-Induced Shock. CM Murphy, M Gellar, MS Runyon, N Rozario, W Kerns. *J Med Toxicol* 2016;12:5-6 (2015 MTF Innovative Research and Teaching Award).

Comparative Analysis of Trends in Opioid Queries on the Erowid Website 2009–2015. RS Wightman, F Erowid, E Erowid, J Perrone, ZF Meisel, LS Nelson, RO Pearlman. *J Med Toxicol* 2016;12:7 (2015 Prescription Drug Abuse Prevention Award).

Relative Frequency of Unique Opioid Page Visits Versus Heroin on Erowid.org. RS Wightman, F Erowid, E Erowid, J Perrone, ZF Meisel, LS Nelson, RO Pearlman. *J Med Toxicol* 2016;12:7-8 (2015 Prescription Drug Abuse Prevention Award)

Prescription Opioid Use and Knowledge of Overdose Prevention Strategies Among ED Patients. LM Fox, G Gestal, Y Jalloh, A Harper-Brooks, B Tapia, AFManini. *J Med Toxicol* 2016;12:31 (2014-5 EMF-MTF Toxicology Research Award)

Teaching Effective Opioid Prescribing through a Simulation Curriculum. KL Boyle, EW Boyer, KM Babu. *J Med Toxicol* 2016;12:39-40 (2014 Prescription Drug Abuse Prevention Award)

2017 AWARDS

**The MTF Board of Directors approved \$35,000 in funding
for the following awards in 2017:**

**2017 MTF Innovative Research and Teaching Award:
Up to \$20,000 total**

2017 MTF Prescription Drug Abuse Prevention Award: \$5,000

2017 MTF Medical Toxicology Practice Award: \$5,000

**2017-18 EMF-MTF Toxicology Research Award: \$10,000
(MTF \$5,000 & EMF \$5,000)**

**For detailed information on the upcoming 2017 grants,
please visit the MTF web page of the ACMT website.**

MTF FUNDING OPPORTUNITIES 2016-2017

MTF RESEARCH AND EDUCATION FUNDING

MTF Innovative Research & Teaching Awards

The MTF has allocated \$20,000 to support either innovative research or teaching. Requests for support of direct costs between \$5,000 and \$20,000 are due in February 15, 2017. Awardees will be notified at the ACMT Annual Scientific Meeting that Spring. Applicants may request a project period of up to two years.

MTF Innovative Research Award

Supports highly innovative research that could ultimately lead to critical discoveries or major advancements that accelerate the field of medical toxicology research. The Innovative Research Award promotes new ideas; therefore, proposals need not include preliminary data. However, a solid rationale for the work must be provided. Proposed work should have a high probability of success within the funding period. This program aims to provide seed funding that should lead to successful competition for additional funding beyond the pilot period. Results are to be presented at the ACMT Annual Scientific Meeting.

MTF Innovative Teaching Award

Supports the development of novel tools to provide education on relevant issues in medical toxicology, specifically, pioneering or progressive educational activities, methodologies, and/or curricula. Contemplated programs are not limited by format – the focus is on innovation in concept, technique, and/or technology. Prioritization will be given to practical end-products or educational activities that focus on the prevention, diagnosis, or treatment of human poisoning. The intended audience is medical professionals and/or the public. The awardee is expected to present results at the annual ACMT Annual Scientific Meeting.

[Click here for details.](#)

MTF Award on Prescription Drug Abuse Prevention

Supports outstanding research and initiatives that have the greatest potential to reduce the misuse and abuse of prescription drugs, particularly among young people. A major goal is to support the development and/or analysis of innovative prevention, treatment, and/or harm reduction strategies. Requests for support of direct costs up to \$5,000 are due in February 15, 2017. Awardees will be notified at the ACMT Annual Scientific Meeting that Spring. Applicants may request a project period of up to two years. The awardee is expected to present results at a subsequent annual ACMT Annual Scientific Meeting.

[Click here for details.](#)

MTF Practice Award

Clinically-based practices in Medical Toxicology are becoming more common as our subspecialty matures. To assist in promoting such services, the Medical Toxicology Foundation is offering \$5,000 to fund research evaluating the potential economic and clinical benefits of medical toxicology services. The objective of a study funded by this award should be to measure the impact on patient care from the provision of medical toxicology services in either the inpatient or outpatient setting. Request for support of direct costs up to \$5,000 are due in February 15, 2017.

[Click here for details.](#)

MTF CAREER DEVELOPMENT AND TRAVEL SCHOLARSHIPS

MTF/EMF Grant for Medical Toxicology Fellows and Emergency Medicine Residents

The Medical Toxicology Foundation (MTF) along with the Emergency Medicine Foundation (EMF) co-sponsor a Research Grant for Medical Toxicology fellows-in-training and Emergency Medicine residents with a research interest in Medical Toxicology.

This MTF directed grant program awards support for an active Emergency Medicine resident or Medical Toxicology fellow to complete a medical toxicology research projects. Applicants may apply for up to a total of \$10,000 for a one-year period. Both scientific review and awarding decisions will be made independent of the sponsor. Funds are not to be used for capital equipment purchases, faculty salary support, publication costs, travel, or institutional overhead. Applications are due on January 16, 2017.

[Please click here for more information.](#)

Michael P. Spadafora Travel Award

Established to encourage the pursuit of Medical Toxicology fellowship training by providing residents the opportunity to attend the ACMT Annual Scientific Meeting. Any member of an ACGME or AOA accredited residency program is eligible to receive the award. One recipient will be selected each year. Recipients receive an award of \$1,500 to cover registration and travel expenses to the meeting.

[Please click here for more information & application procedures.](#)

MTF Minority Student Travel Award

Supports underrepresented minority medical trainees' attendance at the ACMT Annual Scientific Meeting. One medical student or resident will be selected annually to receive the \$1,500 award to support registration and travel expenses to the meeting.

[Please click here for more information & application procedures.](#)