



Emergent Mechanisms in Biology of  
Robustness, Integration & Organization

**Emergence:** A biweekly newsletter of discovery, education, and outreach from the EMBRIO Institute

Issue 12: February 1, 2023

## DIRECTORS' NOTE

February is Black History Month. There are many local and national events you can participate in to learn about the history of the generations of African Americans who have faced extraordinary adversity to achieve full citizenship in American society. The [blackhistorymonth.gov](http://blackhistorymonth.gov) site is a good resource to start with. Please check out and participate in your university's events. Today, Feb. 1, is [Imbolc](#), Celtic Quarter Day – also known as Saint Brigid's Day – halfway between winter solstice and spring equinox. We are getting more daylight each day now, right? Then, Feb. 2, is [Groundhog Day](#) (and the [movie](#); Punxsutawney Phil's predictions are historically worse than expected with random chance, thus we can always hope for an early spring)...Okay, on to the many activities happening in EMBRIO the next few weeks:

Next Monday the 6th Weekly Update will be devoted to a meeting with the Thrust and Site Leaders only, and the following **Monday the 13<sup>th</sup> will feature a research talk by Priyanka Baloni**, Ass't Prof., Health & Human Sciences, Purdue. Feb. 20<sup>th</sup> we will have the third session of the Grant Writing Professional Development series with students and postdocs (details forthcoming).

In addition to the journal club guided by Jeremy Zartman and Linlin Li, Norma Perez is organizing a **new journal club focused on calcium imaging techniques** that will begin this month. The culminating goal is to co-write a review paper about these techniques and methods. Links and instructions for participating are found below. Please start by completing the [online scheduler](#) for when you can meet.

**Calling postdocs and undergrads to help lead student efforts through the newly formed EMBRIO Student Leadership Council.** The SLC is in the early stages with graduate trainees organizing the council. Learn about how to get involved in the SLC section below.

A unique **opportunity to learn more about Teaming Science** will take place Thursday, Feb. 16, from 8:30 am – 12:30 pm in STEW 206 on the Purdue campus. [Free Registration](#). The workshop is led by well-known expert in team science, [Dr. L. Michelle Bennett](#). Please see the details in the Upcoming Deadlines & Important Dates section below, and in the attached flyer.

Our member **spotlight in this issue highlights Abbie Rogers**, Ph.D. student in the Iyer-Pascuzzi Lab. Abbie introduced herself during this week's research talk. Please welcome Abbie as she embarks on EMBRIO research and collaborations.

We've organized a **two-day workshop taking place Feb. 9-10 at Indiana University for the Institute's Thrust and Site Leads** to develop the framework for next level integration activity going into year three of EMBRIO. Results of the workshop are intended to provide some of the core content for our upcoming **NSF Site Visit taking place virtually, March 3, 10 am – 2pm**. Members will continue to receive information about, and outcomes from, these activities.

An ongoing reminder for any who have not yet participated in the **Institute evaluation interview** with Soumi Mukherjee, please schedule this via the new When to Meet Poll <https://www.when2meet.com/?18327719-shNWM>

We want to hear about your news and announcements. Send them to Brent ([laddb@purdue.edu](mailto:laddb@purdue.edu)) by Feb. 10<sup>th</sup> for inclusion in the next issue of *Emergence*.

**David, Chris, Stephanie, Anjali, and Brent**

### **Notable Quotes**

**“Courage is like – it’s a habitus, a habit, a virtue: you get it by courageous acts. It’s like you learn to swim by swimming. You learn courage by couraging.” ~ Dr. Marie M. Daly, first female African-American to earn a Ph.D. in Chemistry.**

### **QUICK LINKS**

**Journal Club – Calcium Imaging Techniques: [when2meet](#) , [papers to be discussed](#)**

**[ABIDES Open Office Mondays 2:30 - 3 pm Zoom link](#) (starts Feb. 13)**

**ABIDES Monthly Informal Trainee Lunch Group with DEI Director in DLR 228c, Purdue campus. Noon – 1pm Feb. 16. [Zoom link for those off campus](#).**

**[Teaming Science Workshop Registration](#)**

**[Grants Writing Series](#) Box folder**

**[Schedule Your One-on-One Interview with Soumi](#)**

**[Weekly Meeting Recordings](#)**

## **New Calcium Imaging Techniques Journal Club – Starting this Month!**

Due to the need within our EMBRIO community to process and analyze Ca<sup>2+</sup> Images, Director Umulis has proposed to discuss papers regarding methods and tools for analyzing calcium imaging as part of a new journal club. **The goal is to write a review paper about these techniques and methods.**

Norma Perez (nperezro@purdue.edu), EMBRIO Postdoc with the Buganza-Tepole and Umulis Labs, is leading the effort to organize this journal club. In order for the community to join the discussion, please complete the when2meet. To set a time when most of the members can join the discussion, please let Norma know your availability through this link:

<https://www.when2meet.com/?18480121-2rqvo>

**We will discuss the following papers:**

[https://docs.google.com/document/d/1uESi45Zv\\_kGL369NW8sPW60GByOAXme7-vr1XKBM18U/edit?usp=sharing](https://docs.google.com/document/d/1uESi45Zv_kGL369NW8sPW60GByOAXme7-vr1XKBM18U/edit?usp=sharing)

**Students and postdocs, please select a paper you want to discuss and let Norma know your selection.** She will add your name to this Google Sheet in order that the community knows the rotation.

<https://docs.google.com/spreadsheets/d/1RQOTEIncii3HlRaUK38sP8EpOmAeuAc5jP6wR4X7F98/edit?usp=sharing>

The presenter will prepare a presentation of the paper and lead the discussion during the meeting for about 1 hour.

Since the goal is to write a review paper, Norma is asking for each presenter to write a short 2-3 sentence summary, and I will add your text in the summary column of the spreadsheet.

On Google Sheets, you will also find a worksheet tab called “Tool Attribute Table”, the aim is to fill out that table through the discussion as a basis for the writing process. We can discuss the structure and the content of the Table in our meetings.

Also, if you want to add an additional paper to the list, please let Norma know.

## **EMBRIO ABIDES (Access, Belonging, Inclusion, Diversity, Equity, Support)**

DEI is transitioning to a new acronym, ABIDES (Access, Belonging, Inclusion, Diversity, Equity, Support). Anjali Iyer-Pascuzzi, EMBRIO ABIDES Director and Associate Professor at Purdue, IS leading several activities for Institute members this semester. Planned ABIDES activities for this semester (Zoom links will also be shared in the [ABIDES folder in the EMBRIO BOX](#) account):

- **ABIDES Open Office Mondays 2:30 - 3 pm via Zoom** before our Weekly Update. This is an opportunity for anyone to chat with Anjali about ABIDES-related issues - concerns, questions, things you'd like to see improved, etc. The first meet-up will be on **Feb. 13** at this link: <https://purdue-edu.zoom.us/j/91942543564>
- Join a **monthly informal meeting with students and postdocs** in person and through Zoom. Learn about things happening in EMBRIO and talk about a monthly theme (mentoring, careers, making science accessible, etc)! Lunches are BYO.
  - **Thursday, Feb 16, 12 – 1 pm ET** in DLR Room 228c (EMBRIO Suite)
  - Theme: **Introductions and what do you want from ABIDES this year?**
  - Zoom link for those off campus: <https://purdue-edu.zoom.us/j/95281263014>
- Individual Development Plans (IDPs) completed by Feb. 24. You can use one of your own or one of the templates in the [ABIDES folder in BOX](#).
- IDP survey coming the week of Feb. 27. Three questions (did you complete it, did your mentor/trainee complete it, did you discuss)! Please complete by Feb 3.

## **EMBRIO TRAINEE PROFESSIONAL DEVELOPMENT *GRANTS* SERIES**

These sessions are held during the regular Weekly Update time on Mondays at 3pm ET using the zoom link established for Spring semester. The next session in the series is scheduled for February 20, 3pm ET. Materials and instructions for developing aims pages can be accessed on EMBRIO Institute Box > Trainee Professional Development > [Grants Writing Series](#)

November 28<sup>th</sup> : The Grants Process and Federal Granting Agencies – Faculty Panel ([recording](#))

January 23<sup>rd</sup> : De-Mystifying the Craft of Creating an Aims Page

**February 20<sup>th</sup> : Students present draft Aims page for Peer-Feedback (Jazzmin Owens and Peter Brumm share their aims pages)**

March 27<sup>th</sup>: Students present draft Aims page for Peer-Feedback. Volunteers wanted!

## **EMBRIO STUDENT LEADERSHIP COUNCIL**

**Calling postdocs and undergrads to help lead student efforts through the newly formed EMBRIO Student Leadership Council.** The SLC is in the early stages with graduate trainees organizing the council. The SLC is recruiting postdocs and undergrads to join the council leadership. Please reach out to Feyisayo Akande [fakande@purdue.edu](mailto:fakande@purdue.edu) and David Gazzo [dgazzo@nd.edu](mailto:dgazzo@nd.edu).

This past summer, during the EMBRIO annual meeting, students in the Institute gathered for an informal discussion to decide the level of interest in forming a leadership council that could represent and support student interests, development, needs, concerns, and ways to network socially. With an affirmative yes from all present, efforts started during Fall semester on the formation, mission, and goals of the council, while also drawing on participation from all Institute Partners. Stay tuned for a Spring semester calendar of social activities as well as professional and personal development offerings!

## MEMBERSHIP SPOTLIGHT: Abbie Rogers



*Abbie at the immersive Van Gogh art exhibit in Indianapolis*

Abbie Rogers is a Ph.D. student in the Iyer-Pascuzzi Lab, Botany and Plant Pathology Department at Purdue University. The title of her research project is “A *Ralstonia solanacearum* type III effector alters the cytoskeleton of tomato cells”.

**What's your hometown, State, Country (and one thing you love, miss, remember, or want to tell others about it)?**

Madison, WI

Madison is great because it is super friendly to pedestrians and there is always something to do! I miss being able to kayak on the lake during the summer and sit with friends at the memorial union terrace. If you're ever in town I would HIGHLY recommend stopping by Chen's Dumplings and Paul's Pelmeni, some of my Madison favorites.

**What are your hobbies?**

Reading, I especially like science fiction and mystery novels. I also have recently gotten in to puzzles, which is very fun but takes up a lot of space on my dining room table.

**What drew you into becoming a scientist or engineer (or both)?**

In high school I remember really learning about GMOs for the first time and thinking “That is so cool”. Since then, I knew I wanted to work on making agriculture more sustainable. However, it wasn't until my undergraduate research experience, where I worked on the genetic basis of Soybean Cyst Nematode resistance in soybean, that I realized I wanted to work in plant sciences at a genetic and molecular level.

**Tell us the main point of your research as it relates to EMBRIO:**

Our research focuses on understanding how a virulence protein from the bacterial plant phytopathogen *Ralstonia solanacearum* influences cytoskeletal organization and calcium signaling.

**You find yourself alone on an elevator with the president of your university – who knows very little about your field: They ask you to tell them about your research (15 seconds - go!):**

I study virulence proteins, known as effectors, from the bacterial phytopathogen *Ralstonia solanacearum*. This pathogen is super important to study because it causes Bacterial Wilt Disease in a large amount of crop species all around the world. We need to better understand how this pathogen uses its virulence proteins in order to generate better management strategies for Bacterial Wilt Disease.

**What's on the horizon for you (research, career, personal, whatever you want to share)?**

Right now I am just trying to get through my prelim! But my long-term goal is to stay in academia and become a professor at an R1 university.

**What's your various URL/social media handles that others can follow (prof. website, twitter, LinkedIn, blog, etc)?**

[linkedin.com/in/abigail-rogers-8067b51b3](https://www.linkedin.com/in/abigail-rogers-8067b51b3)

## **UPCOMING DEADLINES, IMPORTANT DATES, & INFO**

**Weekly Research & Education Zoom Meetings Spring Semester, Monday's 3 – 4 pm.**

Spring Semester new Zoom link:

<https://purdue-edu.zoom.us/j/99819751005?pwd=UVlvWVpxRDB0cDVXbmxBU1NUTEZGZz09&from=addon>

- January 9 – Krishna Jayant, Asst. Prof., BME, Purdue
- January 16 – Martin Luther King, Jr. Day – No Meeting, please volunteer locally
- January 23 – Trainee Professional Development, Grants Series Session #2
- January 30 – Anjali Iyer-Pascuzzi, Assoc. Prof., BPP, Purdue, DEI Director, EMBRIO
- February 6 – Thrust & Site Leads Update Meeting
- February 13 – Priyanka Baloni, Asst. Prof, HHS, Purdue
- February 20 – Trainee Professional Development, Grants Series Session #3
- February 27 – Bakary Samasa, Mary Mullins Lab
- March 6 – Thrust & Site Leads Update Meeting
- March 13 – Spring break, no meeting
- March 20 – Open
- March 27 - Trainee Professional Development, Grants Series Session #4
- April 3 – Thrust & Site Leads Update Meeting
- April 10 – TBD
- April 17 – TBD
- April 24 – TBD
- May 1 – Thrust & Site Leads Update Meeting
- May 8 – Javier Munoz, Brubaker Lab

## Weekly Update Zoom Breakout Rooms:

Are you looking for a collaborator? Would you like to get conversation started about a specific research topic with other EMBRIO members? Email me (Brent, [laddb@purdue.edu](mailto:laddb@purdue.edu)) with your breakout room topics for upcoming Weekly Update sessions.

**Feb. 16, 8:30-12:30, Teaming Science Workshop, STEW 206, Purdue Campus (flyer attached). [Registration.](#)**

**Nov. 9, 2022 – March 8, 2023.** NIH [RAISING A RESILIENT SCIENTIST](#) series.

**Feb. 9-10, 2023.** EMBRIO Thrust & Site Leaders Workshop. Indiana University.

**March 3, 2023.** NSF – EMBRIO Virtual Site Visit, 10 am – 1pm ET. [Link to participate.](#)

**July 10-12, 2023.** EMBRIO Trainees Workshop, Notre Dame University. More information forthcoming.

**July 13-14, 2023.** EMBRIO All-Hands Annual Meeting, Purdue University. More information forthcoming.

## **INSTITUTE EVALUATION: SIGN UP FOR YOUR ONE-ON-ONE INTERVIEW (hint: it's mandatory)**

“My name is Soumi Mukherjee, and I am a Graduate Student at the Department of Biological Sciences at Purdue. Along with my advisor Dr. Stephanie Gardner, I will be conducting an institute wide evaluation study as a part of Thrust 4 initiative. The process will help in capturing your experiences as a member of EMBRIO, which will be utilized to create a formative evaluation report for NSF at the end of each year. Your participation will not only aid in furthering the goals of the institute for providing an interdisciplinary collaborative environment essential for promoting knowledge integration across all the four thrusts, but also enable us to structure activities catered towards your own professional development.

**If you are a member of the EMBRIO institute currently doing a research project, we would like to invite you for participating in this study. Participation in the evaluation process is MANDATORY for all the members of the institute.**

As a part of the evaluation process, you will take part in an online session (via Zoom), which includes an interview and a brief survey, and the entire process should be completed in less than an hour. Interviews will be conducted annually for the total duration of your participation in the institute and the session would not exceed an hour and would be completed in a day.

**Please fill in all the times you may be available for our interviews using the link below with either your name or email address.** This information is requested so that we may contact you to set up an online session, but we will use a randomly generated 4-digit code in place of your name to identify all your information for the data collection and analysis.

<https://www.when2meet.com/?18327719-shNWM>

Your participation will not affect any aspect of your association with the EMBRIO institute. If you have any doubts regarding the evaluation process, please reach out to me at [mukher42@purdue.edu](mailto:mukher42@purdue.edu).”

With Regards  
Soumi

## NIH Raising a Resilient Scientist Series

The NIH OITE is pleased to offer the [RAISING A RESILIENT SCIENTIST](#) series for faculty, staff scientists, and administrators who mentor students and postdoctoral fellows in the biomedical, behavioral, and social sciences. The goal of the Raising a Resilient Scientist series is to promote the mental health and well-being of the academic research community by supporting faculty and administrators to develop self-management, relationship-management, and mentoring skills.

For questions regarding this series, please contact the OITE at [OITE@mail.nih.gov](mailto:OITE@mail.nih.gov) Please include "PI Series" in the subject line.

All webinars will be recorded and are available 24 - 48 hours after the session using the links posted below.

<b>Raising a Resilient Scientists Units</b>	<b>Workshop Date</b>	<b>Registration</b>
Communication Skills to Build Trainee Resilience	Nov 9, 2022 12:00-2:15 pm ET	Webinar: <a href="https://nih.zoomgov.com/meeting/register/vJlsdeyhrjwsG3qSl89jFIF9zUdzoYIz4Vw">https://nih.zoomgov.com/meeting/register/vJlsdeyhrjwsG3qSl89jFIF9zUdzoYIz4Vw</a> Recording: <a href="https://nih.zoomgov.com/rec/share/MR7KLeoKyuMY8r7gr5bxhR9jY-3kdebR2-PUW6e29F6YKbnf3MILLpJsnOQWcsVi.ZSS3NyL55v9wPalA">https://nih.zoomgov.com/rec/share/MR7KLeoKyuMY8r7gr5bxhR9jY-3kdebR2-PUW6e29F6YKbnf3MILLpJsnOQWcsVi.ZSS3NyL55v9wPalA</a>
Promoting Trainee Resilience	Dec 14, 2022 12:00-2:15 pm ET	<a href="https://nih.zoomgov.com/meeting/register/vJlsc-uvpzovGbw2kGLBSbihRcERfN2raTc">https://nih.zoomgov.com/meeting/register/vJlsc-uvpzovGbw2kGLBSbihRcERfN2raTc</a> Recording: <a href="https://nih.zoomgov.com/rec/play/bm1NfesB3y-AoFUe6zOvn-ALx1jzYIb7mOIXDdShsDDZyX0JG9WHDuoPOPdGknfEg-81n7OhvSwWpuNf.eYt3v1UYKs9HIn7E">https://nih.zoomgov.com/rec/play/bm1NfesB3y-AoFUe6zOvn-ALx1jzYIb7mOIXDdShsDDZyX0JG9WHDuoPOPdGknfEg-81n7OhvSwWpuNf.eYt3v1UYKs9HIn7E</a>
Building a Welcoming and Inclusive Research Group	Jan 18, 2023 12:00-2:15 pm ET	<a href="https://nih.zoomgov.com/meeting/register/vJlscOurqjojGtH9Y_zDJPVHhg2Nm6zWNB0">https://nih.zoomgov.com/meeting/register/vJlscOurqjojGtH9Y_zDJPVHhg2Nm6zWNB0</a>
Difficult Conversations, Conflict, and Feedback	Feb 8, 2023 12:00-2:15 pm ET	<a href="https://nih.zoomgov.com/meeting/register/vJlsc-CgrTsiHfcOa91MnLLO-REQmdOQ2l">https://nih.zoomgov.com/meeting/register/vJlsc-CgrTsiHfcOa91MnLLO-REQmdOQ2l</a>



The Mental Health and Well-being of Your Trainees	Mar 8, 2023 12:00-2:15 pm ET	<a href="https://nih.zoomgov.com/meeting/register/vJlscuCpqT4pEzjHEmDI2E604ncYzhOrhm4">https://nih.zoomgov.com/meeting/register/vJlscuCpqT4pEzjHEmDI2E604ncYzhOrhm4</a>
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There is no charge for participation, but advanced registration is required. For more information, and to register, please visit their [webpage](#). Participation in the entire series is recommended but is not required.

## Hot Off the Press: New EMBRIO Journal and Conference Papers

### Simultaneous inhibition of the Arp2/3 complex and formins enhances *de novo* actin filament nucleation in Arabidopsis

Liyuan Xu, Lingyan Cao, Jiejie Li, Christopher J. Staiger

bioRxiv 2022.08.03.502536; doi: <https://doi.org/10.1101/2022.08.03.502536>

*Let us know about new papers you want to highlight for the EMBRIO community!*

#### REMINDER: EMBRIO Acknowledgement for Scholarly Papers.

For EMBRIO related research publications, NSF requires acknowledgement of EMBRIO NSF funding for our Institute to claim the work in our reporting back to NSF. Please include the following acknowledgement in your journal and conference papers and posters: **“This work is based upon efforts supported by EMBRIO Institute, contract #2120200, a National Science Foundation (NSF) Biology Integration Institute.”**

#### Conference Presentations:

*Let us know about your conference presentations.*

#### Awards

Innovation Hub Grant. **“Design and Instruction of a Team-Based Transdisciplinary Cross-Listed Course in Computational Understanding of Biological Systems and Data.”** EMBRIO PIs: Brent Ladd, Janice Evans, Alejandra Magana, Elsje Pienaar. Funded via Office of the Provost, Purdue’s Lilly Endowment award for Transformative Education 2.0. Project period 01/23 – 8/23.

## Open Positions

### Postdoctoral Fellow Position in Interdisciplinary Biomedical Research and Data Science, Purdue University

A full-time postdoctoral fellow position is available immediately for interdisciplinary research in computational systems biology and collaborative data science at Purdue University. The postdoctoral position is associated with EMBRIO (Emergent Mechanisms in Biology of Robustness, Integration, and Organization), an NSF Biology Integration Institute with six university partners. The postdoctoral fellow will be broadly involved in the EMBRIO Institute, with efforts engaged in computational systems modeling and simulation research, as well as building expertise, guidance, and collaboration support and research in data management and data analysis for EMBRIO teams. The postdoctoral fellow will conduct research under the guidance of Dr. Elsje Pienaar (<https://engineering.purdue.edu/PienaarLab>) and be co-advised by Dr. Adrian Buganza Tepole (<https://engineering.purdue.edu/tepolelab/>).

As part of the work with the Pienaar lab the fellow would build and calibrate computational models of Calcium signaling in multicellular environments and its diverse downstream effects. Together with the Tepole lab the fellow would work to leverage machine learning (ML) tools to speed up and automate model evaluation, and to complement closed-form models with multi-modality ML metamodels for improved accuracy. The work is highly interdisciplinary and highly integrative across multiple systems. The fellow will work closely with experimental experts in zebrafish, plant and tissue culture biology within the EMBRIO Institute to build and parameterize the models. The fellow will also have opportunities to work closely with other computational faculty, staff and students on innovating new ways to integrate and analyze models and data across biological scales and systems.

As these specific projects progress, the postdoctoral fellow will have the opportunity to collaborate with investigators and interdisciplinary teams to research and deliver secure systems of data collection, storage, sharing, and analysis to produce new and actionable knowledge. This work will research and provide regular guidance and training in data science best practices and serve as a point of contact for all things data related. The postdoctoral fellow will have the opportunity to co-write proposals and to develop research components around the data-rich interdisciplinary modeling and simulation environment of EMBRIO.

A Ph.D. degree in Data Science, Computer Science, Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Mathematics, Physics or related fields is required. Previous experience in computational modeling, systems biology, stochastic modeling, numerical methods, and associated statistical analysis, data science, or research data management is desired. Successful applicants will be detail oriented, eager to learn new methods, and enthusiastic about computationally rigorous modeling, collaborating across disciplines, working with experimental biologists and chemists, and advancing and supporting the research data realm of EMBRIO Institute. Salary to be negotiated.

To apply for this position, please submit to Dr. Pienaar ([epienaar@purdue.edu](mailto:epienaar@purdue.edu)) and Dr. Buganza Tepole ([abuganza@purdue.edu](mailto:abuganza@purdue.edu)): (1) your CV, (2) a cover letter explaining your background,

interest and qualifications for the position, and (3) contact information for three references, including your relationship to the reference, their phone number, email address, and mailing address. Please contact Dr. Pienaar ([epienaar@purdue.edu](mailto:epienaar@purdue.edu)) for formal inquiries.

### **Postdoctoral Fellow Position in Interdisciplinary Biochemical Cancer Research, University of Notre Dame**

A full-time postdoctoral fellow position is available immediately for Multidisciplinary Cancer Research at the University of Notre Dame, affiliated with the Harper Cancer Research Institute, the Notre Dame Warren Drug Delivery Center and Notre Dame Institute for Precision Health. The perspective candidate will conduct an interdisciplinary research on projects studying the basic molecular mechanisms of multiple birth defects, cancer progression and neurodegeneration and developing novel therapies to combat them. The postdoctoral fellow will receive crossdisciplinary training in biochemistry, cell biology, synthetic organic chemistry, and drug discovery utilizing a broad range of biochemical assays related to phenotypic screening and protein-protein interactions. The postdoctoral fellow will conduct research under the guidance of a mentoring team, including Dr. Jeremiah Zartman (<http://sites.nd.edu/zartmanlab/>) and Dr. Brandon Ashfeld (<https://ashfeldlab.nd.edu/>).

A Ph.D. or M.D. degree in cell or molecular biology, genetics, biochemistry, chemistry or a related discipline, is required. Previous experience in genetics, screening technologies and associated statistical analysis, synthetic chemistry, imaging or mouse modeling is desired. Successful applicants will be detail oriented, eager to learn new techniques, and enthusiastic about biology, exploring the interface between chemistry and biology, and working in an academic lab environment. Salary is commensurate with experience.

To apply this position, please submit: (1) your CV, (2) a cover letter explaining your background, interest and qualifications for the position, and (3) contact information for three references, including your relationship to the reference, their phone number, email address, and mailing address. Please contact Dr. Jeremiah Zartman ([jzartman@nd.edu](mailto:jzartman@nd.edu)) or Dr. Brandon Ashfeld ([bashfeld@nd.edu](mailto:bashfeld@nd.edu)) for formal inquiries.

### **New Lab Members?**

Did you recently have new students or staff members join your EMBRIO projects? We want to add them to the listserv, Box account, demographics survey, and Personnel List for ensuring their inclusion in communications and participation. If they are not already on our Personnel spreadsheet ( <https://app.box.com/s/frd9275xc069gmtbe3y10soz1j7ssk7> ), or they have graduated, let Brent know their names and email contacts ([laddb@purdue.edu](mailto:laddb@purdue.edu) )

**Submit your items for the next newsletter by Feb. 10<sup>th</sup> to Brent**  
([laddb@purdue.edu](mailto:laddb@purdue.edu))

FACULTY PROFESSIONAL DEVELOPMENT WORKSHOPS 2022-23



**L. Michelle Bennett**  
Principal, LMBENNETTConsulting, LLC  
Former Chief Innovation Officer (Acting)  
National Institute of Environmental Health  
Sciences

# TEAMING SCIENCE WORKSHOP

**FEB • 16 • 2023**

8:30am – 12:30pm • STEW 206

## Top 10 Take Aways

- TRUST
- VISION
- SELF-AWARENESS AND EMOTIONAL INTELLIGENCE
- LEADERSHIP
- MENTORING
- TEAM EVOLUTION AND DYNAMICS
- COMMUNICATION
- RECOGNITION AND SHARING SUCCESS
- CONFLICT AND DISAGREEMENT
- NAVIGATING AND LEVERAGING NETWORKS AND SYSTEMS

For more information on **Dr. L. Michelle Bennett**, click bio [link](#)

CLICK FOR:

**REGISTRATION**

OR SCAN:



OR ENTER:

**[bit.ly/TSW2023](https://bit.ly/TSW2023)**

NIH and NSF are increasingly paying attention to teaming science for large center proposals. Dr. L. Michelle Bennett, a leading expert in team science, is offering a workshop on developing strategies for success in collaboration and team science for multi-investigator research teams and centers. She is the co-author of “Collaboration and Team Science: a Field Guide,” a research-based handbook that provides strategies for developing effective teams.