



Call for Abstracts and Submission Guidelines

Society for Integrative and Comparative Biology

3 January – 28 February 2021 • SICB.org • Virtual Annual Meeting

3 January – 7 January 2021 • Marriott Wardman Park • Washington DC (health permitting)

Extended deadline! Sept 14

2021 Annual Meeting Submittal Deadline

2 September 2020

www.sicb.org/meetings/2021/abstracts

You are invited to contribute to the 2021 Virtual Annual Meeting of the Society for Integrative and Comparative Biology. To maintain the excellent scientific quality of this meeting, you are encouraged to begin your preparation early.

LOCATION

This conference will have two components. The virtual component will be held online from January 3 to the end of February. All live and recorded content will be available throughout this period. The symposia and plenaries will be broadcast live from January 3 to January 7. During these traditional meeting days, an in-person component will take place in Washington, DC if public health conditions allow.

EXHIBITS '21

There will be an exhibition at the Virtual Annual Meeting. For further information on exhibiting, contact Amy Sullivan (sicb@summitexpo.com) or call her at 412-882-1420.

SYMPOSIA

Following is the list of 2021 Symposia. For dates and details, see: www.sicb.org/meetings/2021/symposia

- S1. SICB-Wide Symposium: Blinded by the light: Effects of light pollution across diverse natural systems. *Organizers: Meredith Kernbach, Stephen Ferguson, Valentina Alaasam, Colleen Miller, Clint Francis; Sponsors: DEE, DCPB, DIZ, DEDE, DNNSB, DAB, DCE, DOB*
- S2. Genomic perspectives in comparative physiology of mollusks: Integration across disciplines. *Organizers: Omera Madoo, Maurine Neiman; Sponsors: DEE, DCPB, DEDE, DIZ, DPCB*
- S3. Physical mechanisms of behavior. *Organizers: Patrick Green, Alejandro Rico-Guevara; Sponsors: DCB, DVM, DNNSB, DAB*
- S4. SICB-Wide Symposium: Biology beyond the classroom: Experiential learning through authentic research, design, and community engagement. *Organizers: Ali Hansen, Patrice Connors, Hayley Lanier, Lisa Whitenack, Robert Full; Sponsors: DCB, DCPB, DEDE, DIZ, DEDE, DVM, DNNSB, DCE, DOB*
- S5. An evolutionary tail: Evo-devo, structure, and function of post-anal appendages. *Organizers: Janneke Schwaner, Tonia Hsieh, Craig McGowan; Sponsors: DCB, DEDE, DVM, AMS, DPCB*
- S6. Spatiotemporal dynamics of animal communication. *Organizers: Kim Hoke, Nathan Morehouse, Sara Wasserman, Jess Kanwal, Niko Hensley; Sponsors: DEE, DCB, DIZ, DNNSB, DAB*
- S7. SICB-Wide Symposium: The integrative biology of pigment organelles. *Organizers: Florent Figon, Jérôme Casas, Leila Deravi; Sponsors: DEE, DCPB, DEDE, DIZ, DEDE, DVM, AMS, DNNSB*
- S8. The biology of sticky: Adhesive silk, fiber, and glue biomaterials across Eukaryota. *Organizer: Mercedes Burns, Sarah Stellwagen; Sponsors: DEE, DCB, DCPB, DIZ, DVM, AMS*
- S9. Sending and receiving signals: Endocrine modulation of social communication. *Organizers: Karen Maruska, Julie Butler; Sponsors: DCPB, DVM, DNNSB, DAB, DCE*
- S10. Metachronal coordination of multiple appendages for swimming and pumping. *Organizers: Margaret Byron, David Murphy, Arvind Santhanakrishnan; Sponsors: DCB, DIZ, AMS, TCS*
- S11. Biology's best friend: Bridging disciplinary gaps to advance canine science. *Organizers: Caleb Bryce, Ana Jimenez; Sponsors: DCB, DCPB, DEDE, DVM, DPCB*
- S12. Manakin genomics: Comparative studies of evolution and behavior in a unique clade of birds. *Organizers: Ignacio Moore, Blake Jones; Sponsors: DEE, DAB, DPCB, DCE*

Again this Year!

Opening activities (January 3) followed by 4 full days of symposia and plenaries

New this year!

Talks, posters, and more will be available from January 3 to February 28

MEETING FORMAT

2021 Notes:

1. SICB 2021 will be a Virtual Annual Meeting (VAM) for all attendees, with an optional in-person component if public health conditions allow.
2. Pre-recorded contributed talks and posters will be uploaded in December (date TBD).
3. Presenters must choose a talk or a poster at the time of abstract submission. (The option of 'either' is not possible this year).
4. Presenters are limited to giving up to one talk and one poster presentation (but may be the non-presenting author on an unlimited number of presentations).
5. Talks and posters will be made fully available to conference attendees from January 3, 2021 to February 28, 2021.

The Virtual Annual Meeting will encompass three types of scientific sessions. More details will be provided when the online platform vendor has been decided.

Poster Presentations: Presenters will make a poster in pdf format and upload it by the deadline in December (exact date TBD). Presenters will also be required to upload a short audio 'pitch' explaining their poster (which will assist those with visual impairments). Depending on availability, it may also be possible to upload supplemental video. Poster sessions will be grouped by topic. Conference attendees will be allowed to provide feedback through text-based comments alongside the poster. An additional live interactive session will be provided, with details TBD.

Talk Presentations: Talks will be pre-recorded in either a 6-minute or 12-minute format. To provide flexibility, presenters can decide on the format after abstract submission, and indicate their talk length when uploading the file in December (exact date TBD). There is also flexibility in exact length; talks shorter than the specified duration are allowed (but longer talks are not allowed). Depending on availability, it may also be possible to upload supplemental files. Talks will be arranged by the program officers according to TOPIC (primarily the first topic word selected – see list on following page). Conference attendees will be allowed to provide feedback through text-based comments alongside the recorded talk. An additional live interactive session will be provided, with details TBD.

Symposia: Symposia are pre-arranged sessions in which the speakers have been invited by the symposium organizers. If you are presenting in a symposium, you must submit an abstract, and indicate which symposium you will be in. *Note that there is a separate submission site for symposium presenters.*

WHO MAY PRESENT? AND HOW MANY PRESENTATIONS ARE ALLOWED?

Attendees who are members of one of the contributing societies may present one talk and one poster presentation. A second talk presentation (allowing three total presentations) will be allowed if one of the oral presentations is on one of the topics listed under G. Outreach, Education, and Policy.

Symposium speakers also may give one contributed talk and one poster presentation, in addition to their symposium presentation. If you are not a member, you may give one presentation (talk or poster). Abstracts for each presentation must be submitted separately.

All students who wish to present must provide the name and email address of their research advisor for the submitted abstract. When the abstract is submitted, this person will receive an email alerting them of the submission. This procedure is new for 2021, replacing the old procedure that required sponsorship from a Full Member.

Questions concerning eligibility to make a presentation should be directed to the SICB Program Officer, Jake Socha, at programofficer@sicb.org or Lori Strong at LStrong@BurkInc.com.

SUBMISSION GUIDELINES

Abstracts must be submitted via the web at www.sicb.org/meetings/2021/abstracts.

Symposia speakers must use www.sicb.org/meetings/2021/abstracts/symposia.php and select their talk from the list.

Please carefully follow any special instructions for inserting special characters (e.g., italics, diacritical marks, or other symbols) into abstracts submitted via the web. SICB cannot be responsible for inserting such special characters and symbols. A guide to marking up special text or symbols is provided in the abstract submission page in the gray box.

Presenting Author

Enter your name, institution, department, mailing address, telephone number (mobile preferable), and e-mail address in the appropriate boxes on the Abstract/Transmittal Form. SICB will send all correspondence for the 2021 Virtual Annual Meeting to the e-mail address provided. If you change your address during the period between submission of your abstract and the meeting, please contact the SICB Business Office at 703-790-1745 to update your records. Submission of an abstract constitutes confirmation that all listed co-authors have approved its content.

Primary Division/Society Affiliation

If you are a member of SICB, check a divisional affiliation appropriate for your abstract. If you belong to an affiliated or co-sponsoring society, please indicate using the checkboxes.

Contributed Presentation Format

Select whether your presentation is to be a talk or a poster. The option of "either" is not provided this year because of the virtual format.

Topics of Sessions

SICB Contributed Papers and Posters will be arranged by TOPIC. There are nine major topic groups and each topic group contains sub-topics. Select three sub-topics that best characterize your presentation and rank them in order of preference (e.g. A.1, A.6, D.12). Your contribution will be grouped with similar presentations by the Program Committee. The TOPIC (letter) and sub-topic selections will determine which session you will be programmed

into. If your presentation is more closely related to a special session, please select “J” as your first choice then select the special session. If your presentation is more closely related to a symposium, please select “K” as your first choice then select the symposium in the pop-up box below the topic boxes.

A. Behavior and Neurobiology

1. biological rhythms
2. communication
3. genetics of behavior
4. evolution of behavior
5. development of behavior
6. foraging behavior
7. movement, migration and dispersal
8. neuroanatomy and physiology
9. neurobiology
10. neuroethology
11. parental behavior
12. predator/prey interactions
13. reproductive behavior
14. sensory biology
15. social behavior

B. Biomechanics and Morphology

1. adhesion
2. bioinspired engineering and biomimetics
3. biomaterials, structure, and mechanics
4. ecomorphology
5. evolution of form and function
6. feeding and digestion
7. ontogeny, growth and scaling
8. locomotion
9. modeling and computational approaches
10. movement through and of fluids
11. muscle and tendon morphology and mechanics
12. phenotypic plasticity
13. reproduction
14. sensorimotor structure and integration
15. skeletal and dental morphology and mechanics
16. ventilation and circulation

C. Development

1. cell differentiation
2. fertilization
3. metamorphosis
4. morphogenesis

D. Disease and Ecoimmunology

1. host/pathogen evolution
2. host/pathogen population dynamics
3. pathology and epidemiology
4. immune-based trade-offs
5. host-parasite interactions
6. immunity
7. sickness
8. microbiome

E. Ecology and Environmental Biology

1. biodiversity
2. biogeography
3. bioindicators and pollution
4. biophysical ecology conservation biology
5. chemical ecology
6. climate change
7. community ecology
8. coral reef biology

9. larval ecology
10. phenology
11. plant-animal interactions
12. population ecology
13. symbiosis

F. Evolution

1. adaptation
2. character development and evolution
3. cladistics/phylogenetic analysis
4. co-evolution
5. evolutionary morphology
6. comparative genomics and proteomics
7. evolutionary developmental biology
8. evolutionary ecology
9. evolutionary paleobiology
10. evolutionary physiology
11. historical biogeography
12. life history evolution
13. macroevolution
14. molecular evolution
15. population genetics
16. sexual selection
17. species and speciation

G. Outreach, Education, and Policy

1. assessment
2. citizen science
3. history and public policy
4. outreach and partnerships
5. science communication
6. undergraduate biology education, teaching and research

H. Physiology and Biochemistry

1. cardiovascular physiology
2. cell and molecular physiology
3. comparative biochemistry
4. digestion and excretion
5. energetics
6. immunology
7. metabolism
8. muscle physiology and biochemistry
9. osmotic and ionic regulation
10. photosynthesis
11. reproductive physiology
12. respiration and acid-base balance
13. thermobiology
14. macrophysiology

I. Endocrinology and Chemical Messaging

1. comparative endocrinology
2. environmental endocrinology
3. hormones and behavior
4. hormones and osmoregulation
5. hormones and growth
6. hormones and development
7. neuroendocrinology
8. plant signaling
9. reproductive endocrinology
10. stress

J. Special Session Related

1. Special Session: Honoring the life and legacy of Dr. George Gilchrist: Ecology, evolution, and physiology
2. Special Session: Evolution and biogeography on islands: A session in honor of Dr. Vicki Funk

K. Symposium Related

1. Session related to symposium
(see page 1 for list of symposia)

Best Student Presentation Program

Best Student Presentation Awards are given by most SICB divisions and affiliated societies. If you wish to compete, 1) check the Best Student Presentation box; 2) indicate in which division or affiliated society you wish to compete; and 3) check for additional division-specific requirements. Some divisions program their talks and/or poster student competition presentations into special sessions and some divisions require submission of an extended competition abstract. Please consult division-specific guidelines at www.sicb.org/students/awards.php3#bsp.

Author Box

Type each author(s) name all in upper case, last name followed by initials, in the appropriate box; e.g., Tamone, SL (Author Box 1), Burk, BB (Author Box 2) and Wainwright, P (Author Box 3). Don't use periods with initials. Select the presenting author from the pop-up list.

Institution Box

Type the institution(s), and location(s) in upper and lower case in the box. DO NOT include your department, or repeat the city or state when they are already part of the institution(s) name, or the zip code when listing the address (es) of the author(s). Capitalization and punctuation must be as shown in the sample (University of California, San Diego and Smithsonian Institution, Washington, DC).

Title Box

Enter the title of your abstract in the box in sentence case. (e.g., Evolution by heterochrony in water bears: how tardiness tainted tardigrades)

Abstract Keywords

Keywords are used to develop the index in the Final Program. You must provide a total of at least *five (5) keywords. Keywords 1 to 3 are common terms used at previous SICB conferences. Choose from this list where possible; the complete keyword list will appear when you click the pop-up box. Keywords 4 to 8 can be any of your choice. Please make sure to spell check these words, or others may miss your abstract when searching on that word.

Abstract Box

The abstract, as submitted, will be published online and in the journal *Integrative and Comparative Biology*. Abstracts are formally published in the society's journal (*Integrative and Comparative Biology*) in the year of the conference, usually by March. There should be no margin at the top; keep all text flush left. Enter only the single-paragraph body of the text in the abstract box. DO NOT re-enter your name (s) or institution (s).

Final Notes

The total number of characters including authors, institutions, title, spaces, and abstract body is 2000. The abstract text-body will not be accepted if the total exceeds that number. We recommend drafting the abstract in a text editor to keep track of the this count. The abstract limited of 2000 characters includes all of the following: spaces, title of the abstract, all

authors' names (last name and initials, no periods), institution name for each author, submitting author's email address. This limit does not include HTML mark-up tags. (So when drafting, it's most efficient to finalize the abstract first, and add HTML markup last.) Do not use hard carriage returns.

To be considered for inclusion in the Program, all poster, talk, and symposium submissions must be received via the website by 2 September, 2020. Submissions for posters, oral presentations, and symposia MUST be made using the SICB website, www.sicb.org/meetings/2021/abstracts. The full schedule of presentations will be posted on the SICB website prior to the start of the conference in January.

Meeting Registration

Those submitting abstracts for contributed talks and/or posters must register for the meeting by the deadline of 28 October 2020.

YOU WILL RECEIVE AN E-MAIL FROM SICB ACKNOWLEDGING RECEIPT OF YOUR ABSTRACT; HOWEVER, IT IS NOT OFFICIALLY ACCEPTED UNTIL YOU REGISTER.

If an email confirmation is not received, your abstract has not been received. Check with the business office (sicb@burkinc.com) if you need assistance.

QUESTIONS??

SICB Program Officer:

Jake Socha, Email: programofficer@sicb.org

SICB Business Office:

Toll free: 800-955-1236, FAX: 703-790-2672,
Email: LStrong@BurkInc.com

Abstract Submittal
www.sicb.org/meetings/2021/abstracts

For Information Contact:

SICB Program Officer

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