

## **Report**

As all SMB meetings, SMB2021 covered all aspects of mathematical biology. Special emphasis this year was on the impact of Mathematical Biology on Translational Science & Promotion of Diversity, Equity, and Inclusion. While COVID-19 was spreading across the world, the Society for Mathematical Biology kept the health and safety of its members as the top priority. We held the 2021 Annual Meeting in a virtual form 24 hours a day to maximize the participation of researchers across the world.

<u>Meeting Partner Societies</u>: Society for Mathematical Biology (SMB), European Society for Mathematical and Theoretical Biology (ESMTB) and Korean Society for Industrial and Applied Mathematics (KSIAM).

Webpage: https://www.smb2021.org/home

Leadership of the Organizing Committee:

Mark Alber (Chair) | University of California, Riverside, USA Amber Smith (Vice Chair) | University of Tennessee Health Science Center, USA Weitao Chen (Associate Chair) | University of California, Riverside, USA Jolene Britton (Assistant Chair) | University of California, Riverside, USA Francesco Pancaldi (Assistant Chair) | University of California, Riverside, USA

Number of Registered Participants and Talks:

Registered Attendees: Number of countries involved: Attending the Early Career workshop: Maximum number of parallel sessions: Number of talks: **744** Mini-Symposium talks and **275** Contributed Talks Number of posters: Number involved in mentoring program: **466** as mentees, **153** as mentors, and **130** both Contributions of Individual Members of the Organizing Committee and Judges: https://www.smb2021.org/acknowledgments

International Sub-Committees of the Organizing Committee:

**Cooperation with ESMTB**: Mark Alber, Ellen Baake, Weitao Chen, Lisette de Pillis, Amber Smith, Roeland Merks, Maíra Aguiar, Daniele Avitabile, Robert Planqué

**Cooperation with Asia & Oceania and KSIAM**: Weitao Chen, Heyrim Cho, Jae Kyoung Kim, Peter Kim, Gen Kurosawa, Lei Zhang

#### **Online platforms used:**

- Webinars hosted and recorded with Zoom.
- Sococo used to coordinate webinar links, host poster sessions, networking, and provide industry interface.
- Slack for announcements, support, and discussion.
- Support provided by Mathdept.org

#### Scientific Committee:

Mark Alber | University of California, Riverside, USA Ruth Baker | University of Oxford, UK Reinhard Laubenbacher | University of Florida, USA Suzanne Lenhart | University of Tennessee, Knoxville, USA Philip Maini | University of Oxford, UK Anna Marciniak-Czochra | Heidelberg University, Germany Gibin Powathil | Swansea University, UK Santiago Schnell | University of Michigan, USA Amber Smith | The University of Tennessee Health Science Center, USA

#### **Organizing Committee:**

Maíra Aguiar | Basque Center for Applied Mathematics, Bilbao - Basque Country, Spain Mark Alber (Chair) | University of California, Riverside, USA Paul Atzberger | University of California, Santa Barbara, USA **Daniele Avitabile** | Vrije Universiteit Amsterdam, The Netherlands Ellen Baake | Bielefeld University, Germany Mario Banuelos | California State University, Fresno, USA Mikahl Banwarth-Kuhn | University of California, Merced, USA Jolene Britton (Assistant Chair) | University of California, Riverside, USA Sunny Canic | University of California, Berkeley, USA William Cannon | Pacific Northwest National Laboratory, USA Weitao Chen (Associate Chair) | University of California, Riverside, USA Heyrim Cho | University of California, Riverside, USA Yat Tin Chow | University of California, Riverside, USA Lisette de Pillis | Harvey Mudd College, USA Amina Eladdadi | The College of Saint Rose, Albany, USA German Enciso | University of California, Irvine, USA Marcella Gomez | University of California, Santa Cruz, USA Melissa Gomez | University of California, Riverside, USA

Jia Gou | University of California, Riverside, USA **Robert Guy** | University of California, Davis, USA Alexander Hoffmann | University of California, Los Angeles, USA Chiu-Yen Kao | Claremont McKenna College, USA Jae Kvoung Kim | KAIST, South Korea **Peter Kim** | University of Sydney, Australia Denise Kirschner | University of Michigan Medical School, USA Natalia Komarova | University of California, Irvine, USA Gen Kurosawa | RIKEN, Japan Doron Levy | University of Maryland, USA James Marberry | University of California, Riverside, USA Alison Marsden | Stanford University, USA Roeland Merks | Leiden University, The Netherlands Andrew D. McCulloch | University of California, San Diego, USA Christian Michael | University of California, Riverside, USA Qing Nie | University of California, Irvine, USA Francesco Pancaldi (Assistant Chair) | University of California, Riverside, USA Mykhailo Potomkin | University of California, Riverside, USA Gibin Powathil | Swansea University. UK **Robert Plangué** | Vrije Universiteit Amsterdam, The Netherlands Russell Rockne | Beckman Research Institute of City of Hope, USA Suzanne Sindi | University of California, Merced, USA Amber Smith (Vice Chair) | University Of Tennessee Health Science Center, USA Kevin Tsai | University of California, Riverside, USA Qixuan Wang | University of California, Riverside, USA Dominik Wodarz | University of California, Irvine, USA Roya Zandi | University of California, Riverside, USA Lei Zhang | Peking University, China

## Plenary Speakers:

Sandra Loerakker | Eindhoven University of Technology, Netherlands Carrie Diaz Eaton | Bates College, USA Denise Kirschner | University of Michigan Medical School, USA George Karniadakis | Brown University, USA Michael Savageau | University of California, Davis, USA Jennifer A. Flegg | University of Melbourne, Australia Timothy Elston | University of North Carolina, USA Leah Edelstein-Keshet | University of British Columbia, Canada Anita Layton | University of Waterloo, Canada David Basanta | Moffit Cancer Center, USA Christian A. Yates | Presentations from Best Paper Prize Winner Alexander P. Browning\* | Presentations from Best Student Paper Prize Winner

#### **Conference Events:**

#### **Pre-Conference Program on June 13**

- Public Lecture on Mathematical Biology & Translational Science
- Early Career Workshop
- DEI Discussion

## Development of Diversity, Equity, and Inclusion Events

- Discussions Celebrating and Building Diversity in Mathematical Biology: Setting the stage for SMB2021
- Discussions Celebrating and Building Diversity in Mathematical Biology: Where do we want to go from here?
- Panel: A Conversation with Leaders in Building Equity & Inclusivity within Mathematical Biology
- Daily DEI Activity

## **Special Sessions**

- Mathematical Biology in Industry
- Mathematics in Medicine

## **Special Meetings**

- Meet with NSF Mathematical Biology Program Directors
- Meet with the Editors in chief of the Bulletin of Mathematical Biology & the Journal of Mathematical Biology
- Meet with the Senior Editor, Mathematics for Book Publishing @ Spinger

## Career Fair

- Meet with industry sponsors one-on-one in their Sococo booths
- Check out job postings
- Check out the CVs of SMB2021 registrants

## Sponsors:



# **Prize Winners:**

Name	Presentation Type	Sponsor
Leonard Dekens	Contributed Talk	SMB - POPD subgroup
Zoe Lange and Franziska Kramer	Contributed Talk	SMB - CDEV subgroup
William Martinson	Contributed Talk	SMB - CDEV subgroup
Wayne Hayes	Contributed Talk	SMB - MFBM subgroup
Tara Hameed	Contributed Talk	UC Riverside
Sta Lea	Contributed Talk	UC Riverside
Solveig Van der Vegt	Contributed Talk	SMB - IMMU subgroup
Peter Thompson	Contributed Talk	UC Riverside
Mohit Dalwadi	Contributed Talk	UC Riverside
Mohammed Zahid	Contributed Talk	SMB - ONCO subgroup
Miroslav Phan	Contributed Talk	SMB - MFBM subgroup
Minseo Kim	Contributed Talk	UC Riverside
Michael Raatz	Contributed Talk	SMB - ONCO subgroup
Matthias M. Fischer	Contributed Talk	SMB - ONCO subgroup
Martin Lopez-Garcia	Contributed Talk	SMB - IMMU subgroup
Martjin de Jong	Contributed Talk	UC Riverside
Johannes Borgqvist	Contributed Talk	SMB - MFBM subgroup
Maalavika Pillai	Contributed Talk	UC Riverside
Linus Schumacher	Contributed Talk	SMB - ONCO subgroup
Kyle Dahlin	Contributed Talk	UC Riverside
Kevin Murgas	Contributed Talk	SMB - ONCO subgroup
John Parker	Contributed Talk	UC Riverside
Jody Reimer	Contributed Talk	SMB - POPD subgroup
Jackie Taylor	Contributed Talk	UC Riverside
Aniruddha Deka	Contributed Talk	SMB - IMMU subgroup
Gess Iraji	Contributed Talk	UC Riverside
Elizabeth Trofimenkoff	Contributed Talk	SMB - MFBM subgroup
Dongheon Lee	Contributed Talk	UC Riverside
Denis Patterson	Contributed Talk	SMB - CDEV subgroup
Dana Kleimeier	Contributed Talk	UC Riverside

Bevelynn Williams	Contributed Talk	UC Riverside
Arwa Abdulla Baabdulla	Contributed Talk	SMB - POPD subgroup
Aneequa Sundus	Contributed Talk	SMB - EDUC subgroup
Aden Forrow	Contributed Talk	SMB - MFBM subgroup
Joshua C. Macdonald	Contributeed Talk	SMB - MEPI subgroup
Maíra Aguiar	Contributeed Talk	SMB - MEPI subgroup
Yukitaka Ishimoto	Contributeed Talk	UC Riverside
Quynh-Anh Nguyen	Poster	SMB - NEUR subgroup
Youngmin Park	Poster	SMB - CDEV subgroup
Nao Yamamoto	Poster	10x Genomics
Yun Min Song	Poster	SMB - MFBM subgroup
Souvadra Hati	Poster	PD-Value
Sophie Fischer	Poster	Amgen
Seokjoo Chae	Poster	SMB - NEUR subgroup
Sara Hamis	Poster	SMB - ONCO subgroup
Samarth Kadaba	Poster	SMB - MFBM subgroup
Ryan Godin	Poster	Elsevier
Peter Nabutanyi	Poster	Merck
Pedro Henrique Pinheiro Cintra	Poster	SMB - MEPI subgroup
Nicole Cusimano	Poster	SMB - MEPI subgroup
Nathan Lee	Poster	SMB - ONCO subgroup
Miranda Lynch	Poster	ISoP
Michael Pablo	Poster	SMB - IMMU subgroup
Lucy Lansch-Justen	Poster	SMB - POPD subgroup
Lucia Wagner	Poster	Wiley
Lee Curtin	Poster	SMB - ONCO subgroup
Laura Strube	Poster	PNNL
Keith Harris	Poster	SMB - EDUC subgroup
Dylan Dronnier	Poster	Takeda
John Cody Herron	Poster	SMB - CDEV subgroup
Hyundong Kim	Poster	SMB - MFBM subgroup
Georgia Pope	Poster	SMB - CDEV subgroup
Galina Kolesova	Poster	SMB - MFBM subgroup

Eva Stadler	Poster	SMB - MEPI subgroup
Emmanuel Adabor	Poster	SMB - POPD subgroup
Ellen Swanson	Poster	SMB - ONCO subgroup
Daniel Cruz	Poster	SMB - CDEV subgroup
Elba Raimundez	Poster	Pfizer
Daniel Cardoso Pereira Jorge	Poster	SMB - MEPI subgroup
Connah Johnson	Poster	DILIsym
Chandler Gatenbee	Poster	SMB - ONCO subgroup
Brydon Eastman	Poster	Applied Biomath
Benjamin Garcia de Figueiredo	Poster	SMB - POPD subgroup
Aparna Ramachandran	Poster	Elsevier
Anuraag Bukkuri	Poster	SMB - POPD subgroup
Angelica Bloomquist	Poster	SMB - IMMU subgroup
Amanda Laubmeier	Poster	Springer Nature
Alex John Quijano	Poster	SMB - MFBM subgroup