

the biology of

# TIME

circadian, lunar and seasonal rhythms

## 12th Annual Salk/Fondation Ipsen/Science Symposium on Biological Complexity

January 22 - 24, 2018 • Salk Institute for Biological Studies, La Jolla, CA

Daily, lunar or seasonal cycles are biological phenomena such as leaf movements, sleep, metabolic cycles, and animal migrations which emanate from endogenous biological clocks. They share common features, including temporal modulation of gene expression programs that govern rhythmic physiological processes. This symposium is designed to facilitate learning about the molecular nature and mechanisms of biological clocks and how they modulate the daily rhythms of cellular and organismal biology.

**THE SYDNEY BRENNER NOBEL LECTURE** MICHAEL HASTINGS *MRC LABORATORY OF MOLECULAR BIOLOGY, UK*

### KEYNOTE LECTURE

JOSEPH TAKAHASHI *UT SOUTHWESTERN MEDICAL CENTER*

### SESSION 1: CLOCK MOLECULAR MECHANISM

YOSHI FUKADA (Chair) *UNIVERSITY OF TOKYO, JP*

CARRIE PARTCH *UNIVERSITY OF CALIFORNIA, SANTA CRUZ*

EVA WOLF *IMB AND INSTITUTE OF MOLECULAR PHYSIOLOGY, GE*

MARIA ROBLES *LUDWIG-MAXIMILIANS UNIVERSITY, MUNICH, GE*

### SESSION 2: CLOCKS AND SLEEP

AMITA SEHGAL (Chair) *UNIVERSITY OF PENNSYLVANIA*

YANG DAN *UNIVERSITY OF CALIFORNIA, BERKELEY*

MICHAEL ROSBASH *BRANDEIS UNIVERSITY, HHMI*

CHARLES CZEISLER *HARVARD UNIVERSITY*

### SESSION 3: CLOCKS IN PLANTS AND FOOD

STEVE KAY (Chair) *UNIVERSITY OF SOUTHERN CALIFORNIA*

STACEY HARMER *UNIVERSITY OF CALIFORNIA, DAVIS*

LUIS LARRONDO *PONTIFICAL CATHOLIC UNIVERSITY OF CHILE, CL*

ANDREW MILLAR *UNIVERSITY OF EDINBURGH, UK*

### SESSION 4: CLOCKS AND METABOLISM

CARLA GREEN (Chair) *UT SOUTHWESTERN MEDICAL CENTER*

JOSEPH BASS *NORTHWESTERN UNIVERSITY, CHICAGO*

PAOLO SASSONE-CORSI *UNIVERSITY OF CALIFORNIA, IRVINE*

GAD ASHER *WEIZMANN INSTITUTE OF SCIENCE, IL*

### SPECIAL LECTURE

ULRICH SCHIBLER *UNIVERSITY OF GENEVA, CH*

### SESSION 5: SEASONAL CLOCKS AND NOCTURNAL-DIURNALITY

STEVEN REPPERT (Chair) *UNIVERSITY OF MASSACHUSETTS*

KRISTIN TESSMAR-RAIBLE *UNIVERSITY OF VIENNA, MFPL, AT*

ROELOF HUT *UNIVERSITY OF GRONINGEN, NL*

TAKASHI YOSHIMURA *NAGOYA UNIVERSITY, JP*

### SESSION 6: CLOCKS IN IMMUNE FUNCTION AND THERAPY

JOHN HOGENESCH (Chair) *CINCINNATI CHILDREN'S HOSPITAL*

AJAY CHAWLA *UNIVERSITY OF CALIFORNIA, SAN FRANCISCO*

MIMI SHIRASU-HIZA *COLUMBIA UNIVERSITY*

CHRISTOPH SCHEIERMANN *LUDWIG-MAXIMILIANS UNIVERSITY, MUNICH, GE*

### GALA DINNER AND LECTURE

MICHAEL MENAKER *UNIVERSITY OF VIRGINIA*

**ORGANIZING COMMITTEE:** CÉLINE COLOMBIER-MAFFRE · FABIENNE COURNARIE · INDER VERMA

**SCIENTIFIC PROGRAM COMMITTEE:** RON EVANS · RUSTY GAGE · SUSAN GOLDEN · KATJA LAMIA · SACHIN PANDA · BRYAN RAY · FABIENNE COURNARIE · TERRY SEJNOWSKI · INDER VERMA (Chair) · VALDA VINSON

### ONLINE REGISTRATION and INFORMATION:

[www.salk.edu/salkipsenscience2018](http://www.salk.edu/salkipsenscience2018) **CONTACT:** [events@salk.edu](mailto:events@salk.edu)  
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