APAN Advances and Perspectives in Auditory Neuroscience

Sponsored by TDT and NIDCD
Wyndham San Diego Bayside Hotel, San Diego, CA
Friday, November 2nd, 2018

8:00 – 9:00 **Registration and Poster set-up**
9:00 – 9:05 **Opening Remarks** (Chris Petkov, covering for chair Jennifer Bizley)

Keynote Lecture Chair: Chris Petkov
9:05 – 10:00 Prof. **Andrew King, University of Oxford**
Adaptive coding in the central auditory system

Poster Teaser Session I (Chairs: Michael Brosch and Molly Henry)
10:00 – 10:15 **Four 3-minute Teasers**

- Neuromodulation and plasticity for a rodent model of cochlear implant use. *Glennon E, Multani J, Carcea I, Svirsky M, Froemke RC.*
- Fronto-temporal cortical interactions during vocal production in marmoset monkeys. *Tsunada J, Eliades S*
- Behavioral and electrophysiological evidence of incidental learning across continuous speech. *Wu Y, Liu R, Lim SJ, Holt L.*
- Distinct contributions of auditory cortical inhibitory neuron types to spectral surround suppression. *Lakunina A, Ahmadian Y, Jaramillo S*

10:20 – 11.45 **Morning Poster Session (Presentations by EVEN # Posters)** and Coffee Break

Slide Session I (Chairs: Stephen David and Liberty Hamilton)
11.45 – 12.00 A temporal landmark for syllabic representation of continuous speech in human superior temporal gyrus. *Oganian Y, Chang EF*
12:00 – 12.15 Tracking stimulus statistics from sensory cortices to frontal cortex. *Lawlor J, Bimbard C, Shamma S, Boubenec Y.*
12:15 – 12:30 Illusory sound texture reveals statistical completion in auditory scene analysis. *McWalter R, McDermott JH.*

12:30 – 2:00 **Lunch** on your own (posters remain up through entire meeting)

2.00-2.05 NIDCD Announcements
Young Investigator Spotlight I (Chair: Liz Romanski)
2.05-2.35 **Nima Mesgarani, Columbia University, *Discerning the nonlinear properties of speech processing in the human auditory cortex***

Side Session II (Chairs: Tobias Overath and David Schneider)
2:35 – 2:50 Amygdala-TRN projections amplify tone-evoked activity in auditory thalamus and cortex. *Rolon-Martinez S, Aizenberg M, Geffen MN.*
2:50 – 3:05 Dissociation of task engagement and arousal effects in auditory midbrain and cortex. *Saderi D, Heller CR, Schwartz ZP, David SV.*
3:05 – 3:20 Amodal neural representations. *Muers RS, Perrodin C, Kayser C, Chandrasekaran C, Kocsis Z, Kikuchi Y, Wilson B & Petkov CI.*

Young Investigator Spotlight II (Chair: Liz Romanski)
3.25 – 3.50 - **Sarah Verhulst, Univ. Oldenburg, *Supra-threshold psychoacoustics and envelope-following response relations: Disentangling the contributions from outer-hair-cell loss and synaptopathy***

Poster Teaser Session II (Chair: Santiago Jaramillo and Kexin Yuan)
3:50 – 4:05 **Four 3-minute Teasers**

- Investigation of pitch encoding neurons in the ferret auditory cortex. *Gaucher Q, Ivanov Z, Panniello M, Dahmen J, Willmore B, King AJ, Walker KMM.*
- Affective whispered voices in the human limbic system: differences in single-cell firing and LFP recordings from the amygdala and hippocampus. *Bobin, M. Staib, T. Fedele, J. Sarnthein, S. Frühholz.*
- Multiplexed encoding of sensory and reinforcement cues in the cholinergic basal forebrain supports associative learning and cortical plasticity. *Robert B, Guo W, Polley DB.*

- Modulation of parietal alpha power reflects contributions of pitch cues to auditory spatial selective attention. *Bonacci L, Shinn-Cunningham B.*

4:05 – 6:15 **Afternoon Poster Session (Presentations by ODD # Posters until 5:20 PM)** and Open Bar

6.15 - 6.20 **Travel Awards and Other Announcements** (Santiago Jaramillo and Kexin Yuan)

6:20 – 6:40 **Business Meeting** (ad-hoc chair Chris Petkov plus Programming, Event and Organizing Committee members)

APAN 2018 Poster Presentations:

1. **Recalibration of excitatory and inhibitory local cortical networks supports neural and perceptual recovery of simple – but not complex – sound processing following a long-lasting reduction in auditory input strength**
   Jenifer Resnik, Daniel B. Polley

2. **Cross-modal gain control in sensory thalamus**
   Michael Lohse, Johannes C. Dahmen, Victoria M. Bajo, Andrew J. King

3. **Neural Selectivity for Music, Speech, and Song in Human Auditory Cortex**
   Sam V Norman-Haignere, Jenelle Feather, Peter Brunner, Anthony L Ritaccio, Josh H McDermott, Gerwin Schalk, Nancy Kanwisher

4. **Processing of reverberant sound in the auditory system**
   Aleksandar Z. Ivanov, Benjamin D. B. Willmore, Kerry M. M. Walker, Andrew J. King, Nicol S. Harper

5. **Distinct codes as a substrate for causal inference in primate superior colliculus neurons**
   Jeff Mohl, Surya Tokdar, Jennifer Groh

6. **Behavior state-dependence of correlated neural population activity in ferret primary auditory cortex**
   Charles Heller, Daniela Saderi, Zachary Schwartz, Stephen David

7. **Evaluating the generality of deep neural networks as a model of human hearing: Comparison with a large set of psychophysical and neural experiments**
   Alexander J.E. Kell, Erica N. Shook, Josh H. McDermott

8. **Enhanced ability of detecting rat vocalization-in-noise by sound exposure during a critical period**
   Natsumi Homma, Christoph Schreiner

9. **Auditory cortex dependent reprogramming of an innate maternal behaviour**
   Alex Dunlap, Robert Liu

10. **Increased cortical gain facilitates the detection of targets in noise.**
    Chris Angeloni, Maria Geffen

11. **Modulation of parietal alpha power reflects contributions of pitch cues to auditory spatial selective attention**
    Lia Bonacci, Barbara Shinn-Cunningham

12. **Competing Sounds reveal Spatial Configuration Sensitive Neurons in Mouse Primary Auditory Cortex**
    Howard Gritton, Kevin Lou, Jun Ma, Xue Han and Kamal Sen

13. **Predictive auditory sequence learning modulates inter-regional oscillatory coupling in human intracranial recordings**
    Yukiko Kikuchi, Christopher K. Kovach, Ryan Calmus, Phillip E. Gander, Ariane E. Rhone, Kirill V. Nourski, Hiroto Kawasaki, Timothy D. Griffiths, Matthew A. Howard III & Christopher I. Petkov

14. **The eardrums report both eye position and eye movement: the full EMREO map**
    David LK Murphy, Rachel Landrum, Cole D. Jenson, Stephanie Schlebusch, David W. Smith, Christopher A. Shera, Cynthia D. King, Jennifer M. Groh

15. **Reproducibility of eardrum movements accompanying saccades: implications for clinical testing**

Stephanie Schlebusch, David L.K. Murphy, Cynthia King, David M. Kaylie, Jennifer M. Groh

16. **Auditory Attention Decoding: What Anatomical Locations and Neural Frequency Bands Contribute?**
    James O'Sullivan, Jose Herrero, Elliot Smith, Sameer A. Sheth, Guy M. McKhann, Ashesh D. Mehta, Nima Mesgarani

17. **Integration of cross-modal information enhances auditory gap detection performance**
    Anna-Katharina R. Bauer, Martin G. Bleichner, Sylvain Baillet, Stefan Debener

18. **Multiscale Calcium Imaging of Auditory Cortex in Awake Marmoset Monkeys**
    Xindong Song, Yueqi Guo, Xiaoqin Wang

19. **Decoding sound texture identity via statistics of neuron ensembles**
    Xiu Zhai, Mina Sadeghi, Fatemeh Khatami, Heather L Read, Ian Stevenson, Monty A Escabi

20. **Functional organization of human perisylvian cortex in response to speech**
    Bahar Khalighinejad, Sam Norman-Haignere, Jose Herrero, Ashesh Mehta, Nima Mesgarani

21. **Multiplexed encoding of sensory and reinforcement cues in the cholinergic basal forebrain supports associative learning and cortical plasticity**
    Blaise Robert, Wei Guo, Daniel B. Polley

22. **Mechanisms of information processing by coordinated neuronal ensembles in the primary auditory cortex**
    Jermyn Z See, Craig A Atencio, Natsumi Y Homma, Vikaas S Sohal, Christoph E Schreiner

23. **Investigate what makes it "new" in the old-plus-new strategy of auditory scene analysis in the auditory cortex of marmoset monkeys**
    Yi Zhou, Jonas Braasch

24. **Mechanisms to Communicate in a marmoset 'Cocktail Party'**
    Vladimir Jovanovic, Cory T. Miller

25. **Cross-Modal Representation of Individual Identity in Marmoset Hippocampal Neurons**
    Hristos Courellis, Cory Miller

26. **Contribution of correlated cortical activity to identity-preserving changes in sounds.**
    Francisco A. Rodriguez Campos, Matthew Schaff, Brianna Karpowicz, Yale E. Cohen

27. **A modular high-density 294 channels µECoG system on macaque vlPFC for auditory cognitive decoding**
    Chia-Han Chiang, Jaejin Lee, Charles Wang, Ashley J. Williams, Yale Cohen, and Jonathan Viventi

28. **Modulation of auditory cortical information processing by movement and VIP interneuron activation**
    James Bigelow, Jefferson DeKloe, Ryan Morrill, Andrea Hasenstaub

29. **Reorganization of cortical population neuronal activity following auditory fear conditioning**
    Katherine C. Wood, Richard Betzel, Danielle Bassett, Maria N. Geffen

30. **Connectional modularity within the lateral cortex of the mouse inferior colliculus gives rise to partially segregated processing streams for auditory and multisensory information**
    Alexandria Lesicko, Daniel Llano

31. **How do neurons overcome developmental hearing loss-induced cellular deficits during auditory learning?**
    Todd Mowery, Nihaad Paraouty

32. **Neural activities in marmoset premotor cortex for vocal production during social communication**
    Lingyun Zhao, Xiaoqin Wang

33. **Predicting the neural responses to speech in human auditory cortex using deep neural network models**
    Menoua Keshishian, Hassan Akbari, Bahar Khalighinejad, Jose Herrero, Ashesh D Mehta, Nima Mesgarani

34. **Population responses underlying statistical inference in a map of auditory space in the barn owl's midbrain**

Roland Ferger, Michael V. Beckert, Keanu Shadron, Daniel Sanculi, William M. Debello, Brian J. Fischer, Jose L. Pena

35. **Neural competition in auditory decoding of own- and other-vocalizations**
Joris Dietziker, Matthias Staib, Sascha Frühholz

36. **A neural ensemble correlation code for sound category identification**
Monty Escabi, Mina Sadeghi, Xiu Zhai, Ian Stevenson

37. **Electrocorticographic Responses to Vowel Sequences in Awake and Anesthetized States**
Kirill Nourski, Mitchell Steinschneider, Ariane E. Rhone, Hiroto Kawasaki, Matthew A. Howard, Matthew I. Banks

38. **Understanding speech in background noise relies on similar processes to figure-ground segregation**
Emma Holmes, Timothy D. Griffiths

39. **Investigation of pitch encoding neurons in the ferret auditory cortex**
Quentin Gaucher, Aleksandar Z. Ivanov, Mariangela Panniello, Johannes C. Dahmen, Benjamin Willmore, Andrew J. King, Kerry M. M. Walker

40. **Mapping the human subcortical auditory system: Validation across histology, ex vivo MRI, and in vivo MRI**
Kevin R. Sitek*, Omer Faruk Gulban*, Evan Calabrese, G. Allan Johnson, Satrajit S. Ghosh†, Federico De Martino†

41. **Neurons in auditory cortex are sensitive to frequency pattern violation**
Linda Garami, Chris Angeloni, Kathrine C. Wood, Maria N. Geffen

42. **Effects of peristimulus vagal nerve stimulation on responses in ferret auditory cortex**
Jonathan B. Fritz, Ali Mohammed, Jaya Viswanathan, Pingbo Yin, Diego Elgueda, Erin Causey, Jeslyn Lai, Stephen V. David, Shihab Shamma

43. **A computational model of the underlying mechanisms of temporal coding in auditory cortex**
Jong Hoon LEE, Xiaoqin Wang, Daniel Bendor

44. **Attentional modulation of neural speech tracking and alpha power independently support speech comprehension in middle-aged adults**
Sarah Tune, Mohsen Alavash, Lorenz Fiedler, Jonas Obleser

45. **Interactions between intra- and inter-areal connections of human insula in processing emotional sounds**
Yang Zhang, Wenjing Zhou, Juan Huang, Bo Hong, Xiaoqin Wang

46. **Alpha oscillations index the temporal dynamics of exerted cognitive effort during listening**
Björn Herrmann, Burkhard Maess, Ingrid S. Johnsrude

47. **Non-reciprocal open-loop interactions in thalamo-thalamic reticular network**
Kush Paul, Jeffrey W. Brown, Aynaz Taheri, Robert V. Kenyon, Tanya Y. Berger-Wolf, Daniel A. Llano

48. **A Cortical Time-Frequency Mask for Auditory Scene Analysis**
Kenny F Chou, H Steven Colburn, Kamal Sen

49. **Detecting tinnitus in nonhuman primates by using a non-acoustic startle paradigm**
Lars Rogenmoser, Pawel Kusmierek, Denis Archakov, Josef P. Rauschecker,

50. **Inhibitory inputs to medial geniculate body modulate nonlinear population auditory cortical responses after midbrain stimulation**
Baher A. Ibrahim, Aynaz Taheri, Robert V. Kenyon, Tanya Berger-Wolf and Daniel A. Llano

51. **Correlations improve accuracy in predicting population codes in macaque auditory cortex**
M. B. Schaff, S. Subramanian, C. Lo, O. Contreras, E. Piasini, V. Balasubramanian, Y. E. Cohen

52. **Active tracking of sound textures: a human intracranial study**

Alexander J. Billig, Phillip E. Gander, William Sedley, Maria Chait, Hiroto Kawasaki, Christopher K. Kovach, Matthew A. Howard, Timothy D. Griffiths

53. **A potential role of non-lemniscal auditory thalamic inputs to lateral amygdala in diverse sound-induced defensive behaviors**
Miaomiao Liu, Yiwei Wang, Hanqing Wang, Dongqin Cai, Ling You, Fenghua Xie, Yin Yue, Kexin Yuan

54. **Variant-Independent Sound Representation and Neural Discriminability in the Zebra Finch Auditory Forebrain**
Mingwen Dong, Mimi Phan, David Vicario

55. **Affective whispered voices in the human limbic system: differences in single-cell firing and LFP recordings from the amygdala and hippocampus**
M. Bobin, M. Staib, T. Fedele, J. Sarnthein, S. Frühholz

56. **The frequency-band specific information flows in speech network**
Yuxiang Yan, Hao Han, Dan Zhang, Wenjing Zhou, *Bo Hong

57. **Loss of interaural time difference sensitivity in rabbit inferior colliculus neurons following noise-induced hearing loss**
Hariprakash Haragopal, Ryan Dorkoski, Gareth Whaley, Lukas Palmer, Mitchell Day

58. **Closed-loop stimulation reveals the brain state-dependence of auditory perceptual sensitivity**
Leonhard Waschke, Jonas Obleser

59. **Auditory texture synthesis from task-optimized convolutional neural networks**
Jenelle Feather, Josh H. McDermott

60. **The neural processing of phonemes is shaped by linguistic analysis**
Jackson C Lee, Tobias Overath

61. **Decoding trajectories of multiple moving sound sources from EEG in cocktail party environment**
Adam Bednar, Edmund C. Lalor

62. **Neural voice decoding in the primate auditory cortex is task-dependent**
Sascha Frühholz, Plamina Dimanova

63. **Human Sound Localization Depends on Sound Intensity: Implications for Sensory Coding**
Antje Ihlefeld, Nima Alamatsaz, Robert Shapley

64. **Two-Talker Attention Decoding from EEG with Nonlinear Neural Networks and Linear Methods**
Gregory Ciccarelli, Michael Nolan, Joey Perricone, Paul Calamia, James O'Sullivan, Nima Mesgarani, Thomas Quatieri, Christopher Smalt

65. **Response to own name in noise differs in autistic adolescents with severe language impairments**
Sophie Schwartz, Le Wang, Barbara Shinn-Cunningham, Helen Tager-Flusberg

66. **Supra-threshold psychoacoustics and envelope-following response relations: Disentangling the contributions from outer-hair-cell loss and synaptopathy**
Sarah Verhulst, Viacheslav Vasilkov, Markus Garrett, Frauke Ernst

67. **Neural oscillatory mechanisms for interpersonal entrainment in music ensembles**
Andrew Chang, Philip Chrapka, Dan J. Bosnyak, Laurel J. Trainor

68. **Temporal Tracking of Speech Periodicity in Human Auditory Cortex**
Ning Guo, Xiaopeng Si, Wenjing Zhou, Bo Hong

69. **Descending projections from the auditory cortex and inferior colliculus contact GABAergic cells in the ventral nucleus of the trapezoid body**
Nichole L. Beebe, William A. Noftz, Brett R. Schofield

70. **Distinct contributions of auditory cortical inhibitory neuron types to spectral surround suppression**

Anna Lakunina, Yashar Ahmadian, Santiago Jaramillo

71. **Classifying the neural code of concurrently presented vowels**
Samuel Smith, Ananthakrishna Chintanpalli, Mark Wallace, Adam Hockley, Michael Heinz, Christian Sumner

72. **A potential pathway mediating sound-induced anxiety-like behaviour**
Yiwei Wang, Miaomiao Liu, Jingshan Zhou, Dongqin Cai, Limei Ke, Ling You, Fenghua Xie, Yin Yue, Kexin Yuan

73. **Cortical excitatory and inhibitory neurons differentially affect collicular responses to sound**
Jennifer M. Blackwell, Winnie Rao, Dashiell Ridolfi-Starr, Maria N. Geffen

74. **Front-Temporal Cortical Interactions during Vocal Production in Marmoset Monkeys**
Joji Tsunada, Steven Eliades

75. **Characterization of auditory neurons in the mouse superior colliculus detected using virtual auditory space stimulation**
Shinya Ito, David A. Feldheim, Alan M. Litke

76. **O-15 Water PET study of speech in noise processing in cochlear implant patients**
"Laurie Ponto, Inyong Choi, Bruce Gantz, Bob McMurray, Tim Griffiths"

77. **Neural computational principles of auditory processing revealed by magnetoencephalography and deep neural networks**
Xiangbin. Teng, David Poeppel

78. **Investigating auditory conscious perception with a threshold task and intracranial EEG**
Kate L. Christison-Lagay , Christopher Micek, Sharif I. Kronemer, Sarit Forman, Mark Aksen, Ahmad Abdel-Aty, Frederick van Duyne, Melanie Boly, Elsa Juan, Tom Bugnon, Erin Yeagle, Jose Herrero, Stephan Bickel, Ashesh Mehta, Lawrence J. Hirsch, Jason L. Gerrard, Dennis D. Spencer, Hal Blumenfeld

79. **Removable cranial window for chronic multi-scale and multi-modal optical imaging in marmosets**
Yueqi Guo, Xindong Song, Xiaoqin Wang

80. **Hearing loss, auditory sensorimotor gating deficits, and cortical interneuron abnormalities in a mouse model of 22q11.2 Deletion Syndrome**
Jennifer F. Linden, Fhatarah A. Zinnamon, Freya G. Harrison, Sandra S. Wenas, Arne F. Meyer, Qing Liu and Kuan H. Wang

81. **Receptive field characterization using pure tones and broadband stimuli in the mouse primary auditory cortex**
Kyunghee X. Kim, Craig A. Atencio, Christoph E. Schreiner

82. **Opposite abnormalities in gap-in-noise sensitivity in the auditory midbrain and thalamus of a mouse model of developmental disorder**
J. Mattley, L.A. Anderson, J. F. Linden

83. **Co-variability across the neural population in the map of auditory space of the barn owl**
Michael V. Beckert, Roland Ferger, Keanu Shadron, Brian J. Fischer, Jose L. Pena

84. **The primate voice-sensitive cortex is a general acoustic pattern analyser**
Matthias Staib, Sascha Frühholz

85. **Cortical Asymmetry for Sound Energy (CASE) in Mustached Bat Primary Auditory Cortex**
Stuart D. Washington, Georgios A. Keliris, Jagmeet S. Kanwal

86. **Neuromodulation and Plasticity for a Rodent Model of Cochlear Implant Use**
Erin Glennon, Jasmin Multani, Ioana Carcea, Mario Svirsky, Robert C. Froemke

87. **Frequency dependent interaction of dual sound representations in monkey inferior colliculus**
Shawn M. Willett, Valeria C. Caruso, Surya T. Tokdar, Jennifer M. Groh

88. **Voice activity detection in the brain: Understanding the spatio-temporal characteristics of voice detection in the auditory cortex during fMRI.**

Huw Swanborough, Matthias Staib, Sascha Fruehholz

89. **Neural substrates of auditory rhythm processing and language skill in early-to-mid adolescence.**
Manon Grube, Faye Smith, Sukbhinder Kumar, Heather Slater, Timothy D. Griffiths

90. **Adaptation to simple sounds in the auditory field of insular cortex in anesthetized rats** Maciej Jankowski

91. **Directed effective connectivity in the human and monkey brain: Auditory cortex impact on inferior frontal gyrus, hippocampus and anterior cingulate cortex**
Francesca Rocchi*, Hiroyuki Oya*, Fabien Balezeau, Zsuzsanna Kocsis, Jeremy Greenlee, Timothy D. Griffiths, Matthew Howard III & Christopher I. Petkov

92. **Mating but not restraint vocalizations have different valence for male and female mice**
Zahra Ghasemahmad, Rishitha Panditi, Krish Nair, Bhavya Sharma, Jeff Wenstrup

93. **Nonlinear coding of naturalistic sound streams in marmoset auditory cortex**
Luke A Shaheen, Stephen V David

94. **Auditory language localizer: An fMRI/ECoG study with epilepsy patients**
B. F. Snoad, P. E. Gander, C. K. Kovach, K. V. Nourski, H. Kawasaki, E. Fedorenko, M. A. Howard III

95. **Top-down and bottom-up predictions in auditory decision-making**
Lalitta Suriya-Arunroj, Yale E. Cohen, Joshua I. Gold

96. **The effect of anticipated cue reliability on behavioral and neural adaptation in barn owls**
Michael V Beckert, Roland Ferger, Jose L Pena

97. **Decoding of phonemes in continuous speech from fMRI response patterns**
Julia Erb, Dino Düwel, Giancarlo Valente, Federico De Martino, Elia Formisano

98. **The Role of Auditory Experience in the Neural Systems for Effortful Listening**
"Bradley E. White, Clifton Langdon"

99. **Cortical network topology across awareness states during sleep and anesthesia: An intracranial electrophysiology study**
Matthew I. Banks*, Kirill V. Nourski*, Hiroto Kawasaki, Matthew A. Howard III

100. **Triadic forebrain structures that directly control the auditory midbrain of echolocating bats**
T. Ito, R. Yamamoto, T. Furuyama, K. Hase, K. I. Kobayashi, S. Hiryu

101. **Electrocorticographic (ECoG) analysis of dialog-based paradigms for assessing speech, language and cognitive functions: a case report**
Mitchell Steinschneider, Kirill V Nourski

102. **Memory and integration of faces and vocalizations in neuronal populations in the primate prefrontal cortex**
Shraddha Shah, Theodore Lincoln, Katryna Kevelson, Lizabeth M. Romanski

103. **Are human hippocampal sharp wave ripples involved in auditory sequence encoding?**
Araceli Ramirez-Cardenas, Juan Felipe Ramirez-Villegas, Matthew Howard, Jeremy Greenlee

104. **Behavioral and electrophysiological evidence of incidental learning across continuous speech**
Yunan "Charles" Wu, Ran Liu, Sung-Joo Lim, Lori Holt

105. **Quadratic discriminant analysis reveals representational dissimilarities between different types of auditory selective attention**
Winko W. An, Alexander Pei, Barbara G. Shinn-Cunningham

106. **Investigating audiovisual integration in the inferior colliculus**
Katherine Wood, Melanie Tobin, Maria Geffen

107. **Indexing multisensory integration of natural speech using canonical correlation**

Aisling E. O'Sullivan, Michael J. Crosse, Giovanni M. Di Liberto, Joe Majeski, Alain de Cheveigné and Edmund C. Lalor

108. MRI monitoring of macaque monkeys for neuroscience: Two case studies

Fabien Balezeau*, Jennifer Nacef*, Kathy Murphy, Yukiko Kikuchi, Felix Schneider, Francesca Rocchi, Ross S. Muers, Rocio Fernandez-Palacios O'Connor, Christoph Blau, Richard Saunders, Matthew Howard III, Alexander Thiele, Timothy D. Griffiths & Christopher I. Petkov