

沖縄科学技術大学院大学紹介

～前例のない真に国際的な大学の広報戦略とは～

OIST-JACST 国際科学広報ワークショップ
2015年3月20日

OIST広報ディビジョン
名取 薫



OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

新時代の教育研究を切り拓く

OIST設立目的

沖縄を拠点に国際的に卓越した科学技術の教育研究を推進

→ 沖縄の自立的発展に寄与 & 世界の科学技術の発展





境界線のないサイエンス

OISTは世界に先駆けて教育研究の在り方に変革をもたらしている。

世界最高水準 世界トップクラスの教員が約50名在籍し、各々が独立した研究ユニットを主導。

学際性 学部を設けず(単一の研究科・専攻)、研究機器を広く共用化・共用研究エリアに集約配置することで異分野の研究者による協働を促進。

国際性 教育研究は英語で行われ、教員と学生の半数以上が外国人。

世界的連携 連携協定の締結や教員がもたらすネットワーク、国際ワークショップなどの開催により、一流の研究者との交流を通じて、世界に開かれた中核的な教育研究機関に成長。

産学連携 企業との共同研究や技術移転、ベンチャーの設立などを通じて知的・産業クラスターの形成をめざし、沖縄の発展の原動力となる。

OISTの広報活動

- メディア
- ウェブ（公式HP・内部サイト・ソーシャルメディア）
- ワークショップ・カンファレンス
- 大学院（学生リクルート）
- 地域連携

OIST is proud of its website's design, content and functionality

世界に誇るデザイン・内容・機能

Truly bilingual web content; one of the kind in Japan

国内屈指の真に日英バイリンガルなウェブコンテンツ

OIST OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

2015-03-16 to 2015-03-18 | WORKSHOP
OIST Mini Symposium: Model Space, Conformal Field Theory and Matrix Models

2015-03-18 | SEMINAR
"WPI Program: Its missions, current activities and future perspectives", Toshiaki Kanai, MD

2015-03-18 | SEMINAR
"Conceptual Foundations for High Impact Research" Dr. Charles Yokoyama

2015-03-19 to 2015-03-20 | WORKSHOP
International Science Communication Workshop 2015

2015-03-19 | SEMINAR
Seminar: Mechanisms of model-based reinforcement learning: Prospection and episodic, by Prof. Nathaniel D. Daw

2015-03-19 | SEMINAR
Seminar: Searching for health-associated bacteria in crabs: a story about Endosymbionta, by Prof. Sen-Lin Tang

2015-03-20 | CAMPUS
International Happiness Day 20th March / 3日祝 国際幸福の日

2015-03-20 | SEMINAR
Internal Seminar: Tripp Unit and Ishikawa Unit

2015-03-25 | WORKSHOP
サイエンスプロジェクト for 地球ガールズ〜本島編〜

2015-03-25 | SEMINAR
Seminar "Regulation of the TRAF6-NF- κ B-NFAT1 signal pathway in osteoblastogenesis."

2015-03-26 | SEMINAR
Seminar: Advanced Reduced-Order Methods for the Aeroclastic Analysis of Wind Turbine Blades, by Prof. Fernando Pina

2015-04-02 | SEMINAR
Seminar by Dr. Scheel Hybrid Integration of Single Photon Emitters

2015-04-08 to 2015-04-10 | RESEARCH VISIT
Fraunhofer Visit

2015-04-08 | SEMINAR
Seminar "Elucidation of the molecular mechanisms of tumorigenesis by identification of novel cancer-associated genes: the PLEKHA7 gene is a novel tumor suppressor gene of neuroendocrine tumours."

2015-04-13 to 2015-04-17 | EXTERNAL EVENT
CHEF2015

Upcoming » All » Calendar »

OIST 沖縄科学技術大学院大学

2015-03-16 to 2015-03-18 | WORKSHOP
OIST Mini Symposium: Model Space, Conformal Field Theory and Matrix Models

2015-03-18 | SEMINAR
"WPI Program: Its missions, current activities and future perspectives", Toshiaki Kanai, MD

2015-03-18 | SEMINAR
"Conceptual Foundations for High Impact Research" Dr. Charles Yokoyama

2015-03-19 to 2015-03-20 | WORKSHOP
国際科学広報に関するワークショップ 2015

2015-03-19 | SEMINAR
Seminar: Mechanisms of model-based reinforcement learning: Prospection and episodic, by Prof. Nathaniel D. Daw

2015-03-19 | SEMINAR
Seminar: Searching for health-associated bacteria in crabs: a story about Endosymbionta, by Prof. Sen-Lin Tang

2015-03-20 | CAMPUS
International Happiness Day 20th March / 3日祝 国際幸福の日

2015-03-20 | SEMINAR
Internal Seminar: Tripp Unit and Ishikawa Unit

2015-03-25 | WORKSHOP
サイエンスプロジェクト for 地球ガールズ〜本島編〜

2015-03-25 | SEMINAR
Seminar "Regulation of the TRAF6-NF- κ B-NFAT1 signal pathway in osteoblastogenesis."

2015-03-26 | SEMINAR
Seminar: Advanced Reduced-Order Methods for the Aeroclastic Analysis of Wind Turbine Blades, by Prof. Fernando Pina

2015-04-02 | SEMINAR
Seminar by Dr. Scheel Hybrid Integration of Single Photon Emitters

2015-04-08 to 2015-04-10 | RESEARCH VISIT
Fraunhofer Visit

2015-04-08 | SEMINAR
Seminar "Elucidation of the molecular mechanisms of tumorigenesis by identification of novel cancer-associated genes: the PLEKHA7 gene is a novel tumor suppressor gene of neuroendocrine tumours."

2015-04-13 to 2015-04-17 | EXTERNAL EVENT
CHEF2015

今後の記事 » すべてのプレスリリース »



News Center

A section of the website aimed at making the university's articles, photos, videos, and other content more visible, accessible, and searchable

ニュースセンター: OISTの記事、写真、動画等を閲覧及び検索しやすくし、利便性を高めた機能

The screenshot shows the English version of the OIST News Center website. The header features the OIST logo and the text "NEWS CENTER" in white on a red background. Below the header is a navigation menu with links for HOME, ABOUT, GRADUATE SCHOOL, RESEARCH, COMMUNITY, EVENTS, NEWS CENTER, ORGANIZATION, and CAREERS. The main content area is divided into several sections: a large featured article titled "Light as Puppeteer" with a sub-headline "Controlling particles with light and microfibers" and a date of 16 Mar 2015; a "Videos" section with a "Higher Order Mode Video" dated 17 Mar 2015; a "Science Challenge 2015" article dated 16 Mar 2015; a "Dark Neural Patches" article dated 11 Mar 2015; and a "Solar Cells Get Growth Boost" article dated 4 Mar 2015. A sidebar on the left contains a "News Center" menu, social media icons, and a "Subscribe to Newsletters" form. The footer includes the OIST logo and contact information: "OIST OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY, 1919-1 Tancha, Onna-son, Kunigami-gun, Okinawa, Japan 904-0495".

The screenshot shows the Japanese version of the OIST News Center website. The header features the OIST logo and the text "ニュースセンター" in white on a red background. Below the header is a navigation menu with links for ホーム, OISTについて, 大学院大学, 研究, 地域連携, イベント, ニュースセンター, 組織, and 採用情報. The main content area is divided into several sections: a large featured article titled "操り人形師のごとき光" (Light like a puppeteer) with a sub-headline "光とマイクロファイバーによる粒子の制御" and a date of 2015-03-18; a "Videos" section with a "高次モードのビデオ" dated 2015-03-17; an "OISTサイエンスチャレンジ2015" article dated 2015-03-18; a "神経回路の「間」に迫る" article dated 2015-03-11; and a "高効率太陽電池の新素子とは" article dated 2015-03-04. A sidebar on the left contains a "ニュースセンター" menu, social media icons, and a "Subscribe to Newsletters" form. The footer includes the OIST logo and contact information: "OIST 沖縄科学技術大学院大学, 〒904-0495 沖縄県国頭郡恩納村字谷兼1919-1".



OIST Update / OIST便り

An email newsletter that keeps subscribers informed about the latest in OIST news, job posts, upcoming events and other information.

OISTの最新ニュース、採用情報、今後のイベント等を電子メールで知らせるニュースレター

OIST UPDATE MARCH 2015

Navigation: OIST HOME, ABOUT OIST, OIST NEWS CENTER, SUBSCRIBE TO OIST UPDATE

2015 Open Campus Welcomes Curious Minds Young and Old
Thousands of visitors enjoyed hands-on activities, lectures and demonstrations at the 2015 OIST Open Campus.
[Read More](#)

Intimate symposia format strengthens OIST research collaborations
OIST hosts small-scale symposiums to share research as it happens.
[Read More](#)

Getting in Shape
The Micro/Bio/Nanofluidics Unit at OIST studies in depth the physics behind liquid-liquid impact with varied temperatures to create non-spherical particles for use in industry.
[Read More](#)

Energy Starts at Home
A new era of open energy systems is ready for launch.
[Read More](#)

Calling the Shots: The Brain's Decision-making Structure
A key part of the brain involved with decisions and movement appears to operate like a traditional corporation.
[Read More](#)

More OIST on the Web
Physics is everywhere – especially in your food, Dr. Suzie Sheehy explained during her talk “Eat Play Collide” at Okinawa Institute of Science and Technology on Saturday, Feb. 28.

Multimedia

20 Feb 2015
OIST Open Campus 2015

12 Feb 2015
High speed drop imaging

3 Feb 2015
Open Energy Systems Introduction

OIST 便り 2015年3月

Navigation: ホーム, OISTについて, ニュースセンター, ニュースレター配信登録

好奇心旺盛な参加者が世代を超えて集まったOISTオープンキャンパス2015
OISTオープンキャンパス2015には、数千人もの来場者がつめかけ、体験型科学プログラムや講演、実験デモを楽しみました。
[Read More](#)

研究の連携を促進する新しい形のシンポジウム
OISTでは小規模のシンポジウムを立ち上げ、研究のタイムリーな共有化を目指します。
[Read More](#)

非球状粒子をシェイプアップ
OISTマイクロ・バイオ・ナノ流体ユニットは、産業利用に適した非球状粒子の作製を目指し、様々な温度条件下において液体と液体が衝突する時の物理的原理を詳細に研究しました。
[Read More](#)

電力の「地産地消」を目指すオープンエネルギーシステム (OES) の研究が新境地を迎えようとしています。
[Read More](#)

意思決定を行う脳の組織構造
意思決定や運動機能で重要な役割を担う脳領域には、会社組織のような役割分担が見られます。
[Read More](#)

More OIST on the Web
2月28日に開催されたOIST一般公開講演会「たべて、遊んで、発見して！」で、スージー・シーヒー博士は「物理学的現象はいたるところにあります。食べ物の中にもね。」と説明しました。

Multimedia

20 Feb 2015
OISTオープンキャンパス2015

12 Feb 2015
高速滴下イメージング

3 Feb 2015
オープンエネルギーシステムズ



Community Building コミュニティ構築

quick links

- HR-Platform Login
- Community Account Request Form
- Set Your Printer Default to Black and White
- Your Directory Photo
- Respectful Workplace Policy
- Lab 3 Construction

directories

- Administration Directory
- Research Directory
- Student Directory
- Email Lists
- Org Chart & Links
- Seating Charts and Floor Maps

information

- FAQ: Who do I contact to do X?
- web Internal Info
- Upcoming Events
- Calendar
- IT Services
- Logo and GSM
- Policy Library PRP
- Reserve Cars
- Training >>

oist systems

- Attendance Management Tool 万屋一家
- DMS >>
- ERP >>
- IT and Computing >>
- OIST Webmail (Exchange OWA)
- Research Equipment Management >>
- Sakai Learning Management System

websites

- HR (Human Resources)
- Divisions
- Sections
- Research Units
- Committees
- Workshops
- Clubs
- Other Sites

reference


- Language Resources >>
- Library >>

social media

- Facebook

featured story

Want to build something?




Did you know OIST has a Woodworking Guild? A group of students started the guild last year as part of their group project for Professional Development class. They have been gradually building out a workshop with benches and tools in the warehouse at the top of the faculty housing hill. 'We felt OIST needed a space for people to create their own projects and learn through hands-on experience,' said Neij Dalphin, who co-founded the guild with Peter Mekhail, Stefan Pommer and Jiabao Chen. Anyone is welcome to join ...

last featured story













Thank you customers: Kaito
2015/3/17




upcoming events

- search upcoming events...
- 
' WPI Program: Its missions, current activities and future perspectives ' , Tosh
 When: 2015/3/18, 14:30:00
 Location: B250
 - 
' Conceptual Foundations for High Impact Research ' Dr. Charles Yokoyama
 When: 2015/3/18, 16:00:00
 Location: B250, Center Bldg
 - 
International Science Communication Workshop 2015
 When: 2015/3/18, 9:00:00
 Location: OIST Main Campus, Seminar Room B250
 - 
Seminar: Mechanisms of model-based reinforcement learning: Prospection a
 When: 2015/3/19, 10:00:00
 Location: Seminar Room C210, Level C, Center bldg
 - 
Seminar: Searching for health-associated bacteria in corals: a story about En
 When: 2015/3/19, 14:00:00
 Location: Meeting Room C016, Level C, Lab 1
 - 
Simplified TeaTime
 When: 2015/3/19, 16:00:00
 Location: Restaurant Level B
 - 
International Happiness Day 20th March / 3月20日 国際幸福デー
 When: 2015/3/20, 0:00:00
 - 
Leadership Training for Safety and Health FY2014
 When: 2015/3/20, 13:00:00
 Location: C210 Seminar Room
 - 
Internal Seminar: Tripp Unit and Ishikawa Unit
 When: 2015/3/20, 17:00:00
 Location: C209
 - 
Spring Equinox 2015
 When: 2015/3/21, 0:00:00
- << prev 10 - 1-10 of 56 - next 10 >>

all-oist announcements

- add item search all-oist announcements...
- 
Tomorrow (3/19): WS participants to tour OIST campus
 2015/3/18
 Posted by: Kaoru Natori
 - 
Found Car Key
 2015/3/18
 Posted by: Hidefumi Yamashiro
 - 
[Solved] [ERP] Emergency Maintenance
 2015/3/18
 Posted by: Naoko Tokumoto
 - 
[Reminder for March 19&20] Parking@CDC/CDC付近の駐車場について Marc
 2015/3/18
 Posted by: Yana Emilova Maneva
 - 
New research from the Light-Matter Interactions Unit
 2015/3/18
 Posted by: Laura Petersen
 - 
[Reminder: SEMINAR] ' WPI Program: Its missions, current activities and fut
 2015/3/18
 Posted by: Yana Emilova Maneva
 - 
[Outage] Very brief network outage in the Center Building
 2015/3/17
 Posted by: Hiroshi Omokawa
 - 
Construction Announcement: Road closed March 28th 10:00~12:00
 2015/3/17
 Posted by: Miwa Mega
 - 
Notice of periodical cleaning
 2015/3/16
 Posted by: Yukari Shinzato
 - 
[Installation Works on March 18th WED] New Projectors in A150, D014 & D01
 2015/3/16
 Posted by: Yana Emilova Maneva
- << prev 10 - 1-10 of 50 - next 10 >>

marketplace

- add item search marketplace...
- 
Memory Foam Mattress !!
 2015/3/18
 Posted by: Jeong-Hwan Kim
 - 
Sunlight Desk Lamp
 2015/3/18
 Posted by: Jeong-Hwan Kim
 - 
CD/DVD Storage Lamp Rack
 2015/3/18
 Posted by: Jeong-Hwan Kim



lab3 construction

M	Tu	W	Th	F	Sa	Su
16	17	18	19	20	21	22
V	V	V	V	V	X	X

N: Normal | V: Some Vibration | X: No Construction

Lab 3 looks finished, and it is – almost. We plan to hold Tea Time and an Open House in Lab 3 on April 02, when everyone can come and take a first look at the new building. Watch Tida for more details.

However, there is still quite a lot of work to be done behind the scenes, including installing the LAN and testing the HVAC system, so we won't start moving in until after Golden Week (ie. early May). Restoring the landscape around the building will also continue until June.

[See the latest images of Lab 3 construction progress.](#)

in the news

- search in the news...
- Brain Mechanism for Behavior Unit Research**
 2015/3/12
 Source: Overseas Media
 - Okinawa Student Summit kicked off with 11 in**
 2015/3/9
 Source: The Ryukyu Shimpo
 - Energy Materials and Surface Sciences Resea**
 2015/3/5
 Source: Overseas Media
 - The Okinawa Student Summit**
 2015/3/5
 Source: Okinawa Times
 - Junior High School Students Learned about t**
 2015/3/4
 Source: Ryukyu Shimpo
 - High expectations on Okinawan rice with dige**
 2015/3/3



News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collections

Media Links

Keyword List

Press Inquiries



Latest News and Media

The Ants That Conquered the World

24 Dec 2014

About one tenth of the world's ants are close relatives; they all belong to just one genus out of 323, called *Pheidole*. "If you go into any tropical forest and take a stroll, you will step on one of these ants," says Okinawa Institute of Science and Technology Graduate University's Professor Evan Economo. *Pheidole* fill niches in ecosystems ranging from rainforests to deserts. Yet until now, researchers have never had a global perspective of how the many species of *Pheidole* evolved and spread across the Earth. Economo, researchers in the Biodiversity and Biocomplexity Unit, and colleagues at the University of Michigan compared gene sequences from 300 species of *Pheidole* from around the world. They used these sequences to construct a tree that shows when and where each species evolved into new species. At the same time, in a parallel effort, they scoured the academic literature, museums around the world, and large databases to aggregate data on where all 1200 or so *Pheidole* species live on Earth, creating a range map for each species. Their results, published in the *Proceedings of the Royal Society Series B*, suggest that *Pheidole* evolved the same way twice, once to take over the New World, and then again to take over the Old World.

Related Photo(s):



Professor Evan Economo and researchers in the Biodiversity and Biocomplexity Unit compared genetic sequences from hundreds of species of *Pheidole*, a group of ants with mysteriously high diversity. They used these sequences to construct a *Pheidole* evolutionary tree that suggests *Pheidole* evolved the same way twice, to take over the New World and then the Old World.



Economo Unit research picked up by overseas media

Overseas Media

2014/12/25

The Economo Units new research has been picked up by the following overseas news outlets:

Science Codex
Science Daily
SciGuru
International Business Times
Zee News
Before It's News
Nature World News
Machines Like Us
Science 2.0
The Cutting Edge News
Red Orbit
Bio scholar
AZoCleantech
Paper Blog (French)
Money.pl (Polish)
Die Welt (German)
Berliner Morgenpost (German)
Nauka W Polsce (Polish)
Sante log (French)
Christian Today

You can read about this research [here](#).





HOME

ABOUT

GRADUATE SCHOOL

RESEARCH

COMMUNITY

EVENTS

NEWS CENTER

ORGANIZATION

CAREERS

News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collections

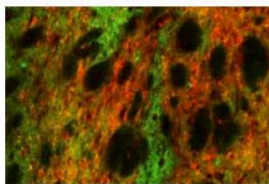
Media Links

Keyword List

Press Inquiries



Latest News and Media



11 Mar 2015

[Dark Neural Patches](#)

Surviving Typhoons

8 Jan 2015

It is no secret that typhoons are capable of churning the seas and wreaking destruction. But it is tough to examine what exactly happens during a typhoon, particularly in the ocean. The Okinawa Institute of Science and Technology Graduate University has launched **an underwater observatory** to monitor what happens in the ocean over long periods of time. Researcher Mary Grossmann, in the Marine Biophysics Unit, used the observatory to determine what happens to plankton during a typhoon. Her study, published online on December 30, 2014 in *The Journal of Oceanography*, offers a rare glimpse at what happens underwater during a typhoon.

“We know what happens before typhoons, and after, as soon as it’s safe, you can get a boat out,” said Grossmann. “But we don’t know what happens during typhoons.” It’s difficult to select equipment that is sensitive enough to detect the fine morphology of plankton, but that can also withstand the force of a typhoon. The Marine Biophysics Unit has established a station off the Motobu peninsula in Okinawa that they call OCTOPUS, which stands for the OIST Cabled Teleoperational Observatory Platform for Undersea Surveillance. OCTOPUS contains a dozen ocean monitoring tools, including cameras, wave monitors, and temperature sensors. The station lies near the ocean floor, about 20 meters below the surface, and uses power from Churaumi Aquarium. “We had problems during the first typhoon with the cables,” Grossmann explained. “Some of the cables pulled out, cutting the power supply to some sensors.” In another typhoon, the aquarium lost power,

Related Photo(s):



Mary Grossmann looks at a jar of plankton she collected on a recent cruise.



Grossman found an amphipod (pictured at left), and then found one inside of a translucent chaetognath (pictured at right) during a feeding frenzy in one of the typhoons. The chaetognath runs from top left to bottom right and the amphipod has unrolled to fit inside the chaetognath’s gut.



in the news

Mary Grossman's typhoon plankton research picked up by overseas media

Science Daily, Engineering and Technology Magazine, Phys.org, etc.

2015/1/9

Mary Grossman's research in the Marine Biophysics Unit about how plankton survives typhoons has been picked up by the following overseas media:

Science Daily

Engineering and Technology Magazine

Phys.org

Science Newsline

Terra Daily

New Scientist

Gizmodo, Gizmodo India, Gizmodo Australia

Ameba News (Japanese)

Excite News (Japanese)

You can read the full story here.



HOME

ABOUT

GRADUATE SCHOOL

RESEARCH

COMMUNITY

EVENTS

NEWS CENTER

ORGANIZATION

CAREERS

News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collections

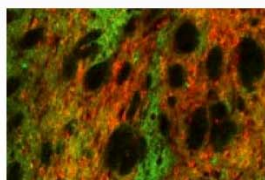
Media Links

Keyword List

Press Inquiries



Latest News and Media



11 Mar 2015

Dark Neural Patches

Pinholes are Pitfalls for High Performance Solar Cells

30 Jan 2015

The most popular next-generation solar cells under development may have a problem – the top layer is full of tiny pinholes, researchers at the Okinawa Institute of Science and Technology Graduate University in Japan have found.

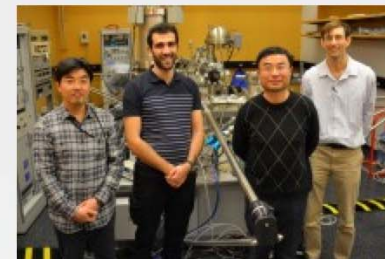
The majority of high-performance solar cells under development use a combination of materials including perovskite and **spiro-MeOTAD**. These cells are far cheaper than traditional silicon-based solar cells, and their efficiency has been increasing significantly in the past few years. But perovskite, which is the layer that converts sunlight to electricity, degrades quickly.

OIST researchers believe they have identified a key culprit for this problem.

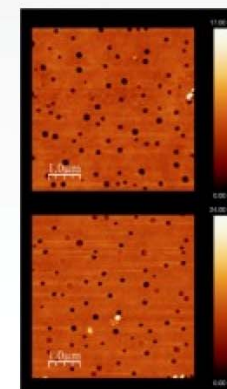
Minuscule pinholes in the spiro-MeOTAD layer -- most so small they cannot be seen even with a light microscope -- may be creating easy pathways for water and other gas molecules in air to diffuse through the thin film and degrade the perovskite.

“These pinholes may play a major role in the degradation of the lifetime of the solar cells,” said Zafer Hawash, a PhD student at OIST who discovered the pinholes. His findings were recently published in the journal *Chemistry of Materials*.

Related Photo(s):



(From left) Dr. Luis Ono, OIST PhD student Zafer Hawash, Professor Yabing Qi and Dr. Michael Lee aim to improve the efficiency and lifetime of perovskite solar cells.



Atomic Force Microscopy (AFM) images



in the news

Energy Materials and Surface Sciences Research covered in Overseas Media

Overseas Media

2015/3/5

New research from the Energy Materials and Surface Sciences Unit published in *Chemistry of Materials* has been picked up by the following overseas news outlets:

Science Daily

Science Newsline

Phys.org

Compound Semiconductor

EE Times Europe

Bright Surf

Solar Daily

Bits & Chips (Netherlands)

Optics & Photonics News

Asian Scientist

Solar-International

[Read the full story here.](#)



News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collections

Media Links

Keyword List

Press Inquiries



Latest News and Media



Calling the Shots: The Brain's Decision-making Structure

27 Feb 2015

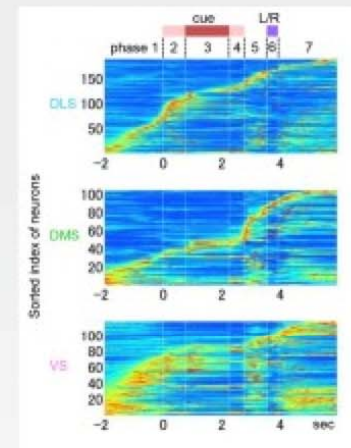
A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much like a traditional corporation with executives, middle managers and employees, according to researchers at the Okinawa Institute of Science and Technology (OIST) Graduate University in Japan.

The striatum is part of the basal ganglia, the inner core of the brain that processes decisions and movements. Neuroscientists have thought the three regions of the striatum – ventral, dorsomedial and dorsolateral – have very distinct roles in motivation, adaptive decisions and routine actions, respectively.

However, OIST researchers found these parts do not operate in isolation, but work together in a coordinated hierarchy – like a traditional company with executives making decisions, delegating to middle managers and employees carrying out specific tasks.

“The three parts have not been investigated simultaneously in the same task

Related Photo(s):



Neurons in the dorsolateral, dorsomedial and ventral striatum were activated during different phases of the task. The vertical axes are numbered neurons, and the activity of each neuron is indicated by the yellow and red colors.

in the news

Doya Unit Research Covered by Overseas Media

Overseas Media

2015/3/2

The story about the Doya Unit's research about the striatum was picked up by overseas media, including:

Science Newsline

ScienceDaily

Scicasts

Medical Press

NeuroScientistNews

Neuroscience Hub

PsyPost

Biocompare

Bioengineer.org

Health Medicine Network

Health Canal

BIGLOBE News (Japanese)

BrightSurf.com

Sciences et Avenir (French)

Medical News Today

newKerala.com

Zee News

Med India

The Hans India

[Read the full story here.](#)





Barbara Braams

@Barbara_Braams



Interesting paper on the role of ventral, dorsomedial and dorsolateral regions of the striatum

shar.es/1WyDc5

6:31 AM - 28 Feb 2015



SOBR

@SOBRNetwork



Calling the shots: Brain's decision-making structure -- ScienceDaily ow.ly/JO49e #neuroscience #striatum

12:50 PM - 7 Mar 2015

2 FAVORITES



Rohaan Solare

@EmergentCulture



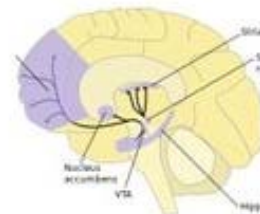
" A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much... fb.me/1Vyg9XhzR

7:52 AM - 1 Mar 2015

Calling the shots: The brain's decision-making structure - PsyPost

A key part of the brain involved with decision making, the striatum, appears to operate hierarchically - much like a traditional corporation with executive ...

PsyPost.org @PsyPost



2 RETWEETS 1 FAVORITE



BSB

@BSB_Bipolar



A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much... fb.me/7fJ6L7xEI

12:22 AM - 28 Feb 2015



Reddit Science

@Science_Reddit



A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much like ...

sciencedaily.com/releases/2015/...

1:02 AM - 28 Feb 2015



OIST

OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

HOME

ABOUT

GRADUATE SCHOOL

RESEARCH

COMMUNITY

EVENTS

NEWS CENTER

ORGANIZATION

CAREERS

News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collections

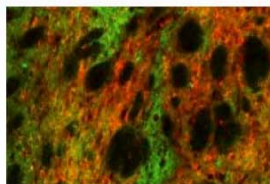
Media Links

Keyword List

Press Inquiries



Latest News and Media



11 Mar 2015

Dark Neural Patches

Solar Cells Get Growth Boost

4 Mar 2015

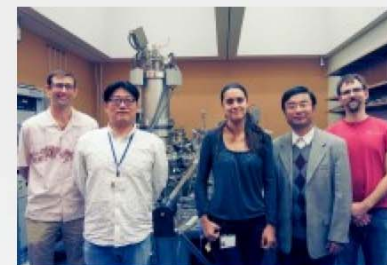
Researchers at the Okinawa Institute of Science and Technology Graduate University's (OIST) **Energy Materials and Surface Sciences Unit** have found that growing a type of film used to manufacture solar cells in ambient air gives it a growth boost. The finding, which could make manufacturing solar cells significantly cheaper, was published in *Chemistry of Materials*.

The type of material is called Perovskite. Since the discovery of its application in harvesting light for electricity in 2009, research on solar cell application has skyrocketed. Fabrication techniques are being developed around the world to improve their power conversion efficiencies. The OIST study gives perovskite solar cells another shot in the arm by making the materials easier to mass produce.

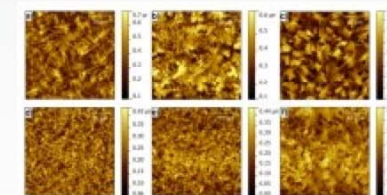
Earlier studies had concluded that exposing perovskite films to ambient air was detrimental because moisture reacted with perovskite, which degraded over time. It was therefore believed the material had to be prepared using a heat treatment called annealing in a water-free environment.

OIST researchers set out to investigate the effects of moisture on perovskite formation during 45 minutes of annealing, at temperatures between 105 and 125 degrees centigrade. They grew a type of perovskite that has been shown to work better for solar cells.—Then, they compared the Perovskite film's formation in a nitrogen atmosphere with its formation in humid air and found

Related Photo(s):



From left to right: Dr. Michael Lee, Dr. Min-cherl Jung, Dr. Sonia Ruiz-Raga, Professor Yabing Qi and Dr. Matthew. R. Layden



a) 105°C in air b) 115°C in air, c) 125°C in air, d) 105°C in Nitrogen, e) 115°C in Nitrogen, and f) 125°C in Nitrogen. Grain sizes on perovskite films are larger when prepared in air between 105 to 125 degrees centigrade than in a nitrogen atmosphere.



in the news

Energy Materials and Surface Sciences Unit Research Covered in Overseas Media

Overseas Media

2015/2/2

Research from the Energy Materials and Surface Sciences Unit was covered by overseas media, including:

Nanotechnology Now

Science Daily

Phys.org

Science Newsline

Research & Development

EE Times Europe

EE Times India

AZoM (The A to Z of Materials)

New Materials News

Democratic Underground

One News Page

Компьютерное Обозрение (Computer Review)

Solar Novus Today

Asian Scientist Magazine

You can read the full story [here](#).





News Center

Home

Articles

Press Releases

Videos

Podcasts

Photos

University Photo Collection

Media Links

Keyword List

News Center Search

Search Options

Articles

Photos

Press Releases

Videos

Search For All

Look Who's Evolving Now: Using Robots to Study Evolution

11 Apr 2014

A new paper by OIST's [Neural Computation Unit](#) has demonstrated the usefulness of robots in studying evolution. Published in PLOS ONE, Stefan Elfwing, a researcher in Professor Kenji Doya's Unit, has successfully used a colony of rodent-like robots to watch different mating strategies evolve. The work not only generated interesting and unexpected results, but it has also helped validate the use of robots in the study of evolution.

Males and females of different species have different strategies of attracting and selecting mating partners. Evolutionary theory suggests that only one distinct phenotype, in this case referring to mating strategy, should exist within a population. This is because natural selection dictates only the best strategy will survive. However, in nature, we see polymorphic mating strategies, meaning there are multiple ways of mating within one population. How these different mating strategies evolved is debated among evolutionary biologists. Studying the evolution of such behaviors in living populations of complex animals is exceedingly difficult. By using robots and computer simulation, Dr. Elfwing is able to watch evolution happen over 1,000 generations in a short period of time, something that is impossible to do in live animals. This is why some scientists have turned to robots to study evolution and see if they can understand how different behavioral strategies develop within a population.

Related Photo(s):



Dr. Stefan Elfwing with a Cyber Rodent robot.



国外の24媒体にとりあげられる

The screenshot shows the OIST website interface. A central pop-up window titled "in the news" features the headline "Doya Unit Research featured on the web" dated 2014/4/15. The text below the headline states: "Recent research by the Doya Unit has been featured by several websites. Please see below:" followed by a list of 24 news sources: Nanowerk News, Freenewspos.com, Mashable, Engadget, Mangalorean.com, International Business Times, NDTV, Tendencias21.net, The New Indian Express, Business Standard, Madshrimps, Nu.nl, Web2.0, Gadgets Addict, Wallstreet Online, EE Journal, CBRonline.com, Computerwelt, Inventorspot, Bangalor Mirror, Popular Science, Vadian.net, Antinews, and Dou.gr. At the bottom of the pop-up, it says "You can read about the research on the OIST website here:" with a link to a news article on the OIST website. A "Close Window" button is located at the bottom right of the pop-up.

The background website shows a navigation menu on the left with categories like "information", "oist systems", "websites", "reference", "social media", and "living links". The main content area displays "upcoming events" and "word-of-mouth" sections. The right sidebar contains a "submit!" button and a "next 10 >>" link. The bottom of the browser window shows the Windows taskbar with various application icons and the system clock displaying 17:48 on 2014/06/09.



