

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



OIST

OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

新時代の教育研究を切り拓く



OIIST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(单一の研究科・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。

产学連携 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。

OIIST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







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 image displays two side-by-side screenshots of the OIST News Center website. Both screenshots show a red header with the OIST logo and the text 'NEWS CENTER'. The left screenshot is in English, and the right one is in Japanese. Both pages feature a large image of four different light modes (TE₀₁, TM₀₁, HE_{21,o}, HE_{21,e}) with labels 'a', 'b', 'c', and 'd' pointing to specific features. Below this are sections for 'Videos' and 'Articles'. The 'Videos' section shows thumbnails for 'Higher Order Mode Video' (17 Mar 2015) and 'February 2015 Slideshow' (3 Mar 2015). The 'Articles' section shows thumbnails for 'Science Challenge 2015' (19 Mar 2015), 'Dark Neural Patches' (11 Mar 2015), 'Solar Cells Get Growth Boost' (4 Mar 2015), and 'Open Energy Systems Introduction' (3 Feb 2015). Each article thumbnail includes a date and a brief description. The right screenshot follows a similar structure but with Japanese text and labels. Both pages also include a sidebar for 'Subscribe to Newsletters' and a footer with the OIST logo and address.



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

[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**

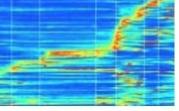
The Micro/Bio/Nanofluidics Unit at OIST studies in depth the physics behind liquid-liquid impact with varied temperatures to create non-spherical particles for use in industry.

[Read More](#)

**Energy Starts at Home**

A new era of open energy systems is ready to 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.

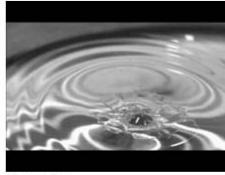
[Read More](#)

**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

[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つたOISTオープンキャンパス2015**

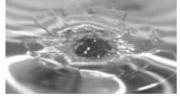
OISTオープンキャンパス2015には、数千人の来場者がつめかけ、体験型科学プログラムや講演、実験デモを楽しみました。

[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、研究のタイミングによる共用化を目指します。

[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](#)


20 Feb 2015
OISTオープンキャンパス2015


12 Feb 2015
高速滴イメージング


3 Feb 2015
オープンエネルギーシステムズ



Community Building

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User: kaoru-natori

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?
iweb Internal Info
Upcoming Events
Calendar
IT Services
Logo and G SM
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 Neil Daphin, 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', Toshi
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: 2015/3/19, 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 March
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

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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



Facebook YouTube Twitter RSS

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 dig
2015/3/3



OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

ISCW / 2015.3.20

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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 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.



Econo Unit research picked up by overseas media

Overseas Media

2014/12/25

The Econo 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.](#)



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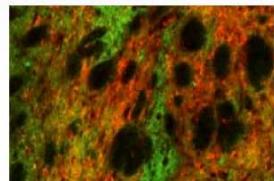
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Latest News and Media



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)

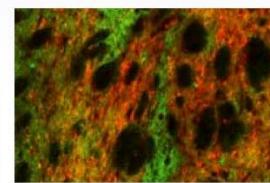
Excite News (Japanese)

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

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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.

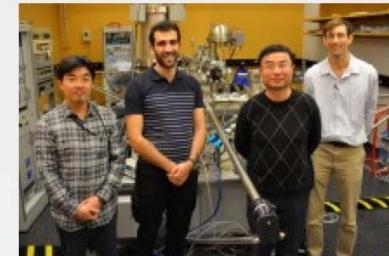
The majority of high-performance solar cells under development use a combination of materials including perovskite and **spiro-MeOTAD**. These cells are far cheaper than traditional silicon-based solar cells, and their efficiency has been increasing significantly in the past few years. But perovskite,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

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

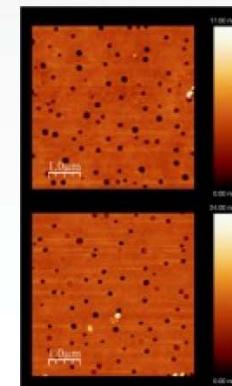
Minuscule pinholes in the spiro-MeOTAD layer -- most so small they cannot be seen even with a light microscope -- may be creating easy pathways for water and other gas molecules in air to diffuse through the thin film and degrade the perovskite.

“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 Newswire](#)

[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.](#)



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

27 Feb 2015

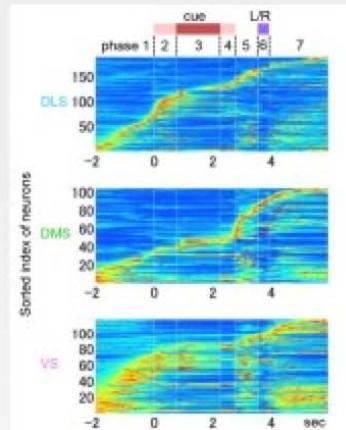
A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much like a traditional corporation with executives, middle managers and employees, according to researchers at the Okinawa Institute of Science and Technology (OIST) Graduate University in Japan.

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

 Follow

Interesting paper on the role of ventral, dorsomedial and dorsolateral regions of the striatum
shar.es/1WyDc5

6:31 AM - 28 Feb 2015



Rohaan Solare
@EmergentCulture

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

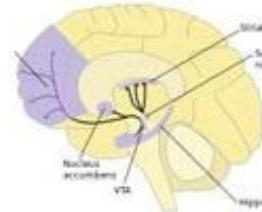
7:52 AM - 1 Mar 2015

[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



 **SOBR**
@SOBRNetwork

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

12:50 PM - 7 Mar 2015

2 FAVORITES



BSB
@BSB_Bipolar

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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

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A key part of the brain involved with decision making, the striatum, appears to operate hierarchically – much like ...
sciedaily.com/releases/2015/...

1:02 AM - 28 Feb 2015



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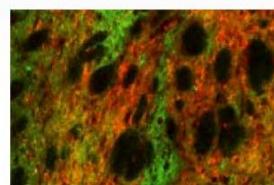
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11 Mar 2015

Dark Neural Patches

Solar Cells Get Growth Boost

4 Mar 2015

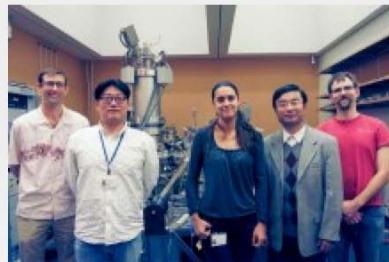
Researchers at the Okinawa Institute of Science and Technology Graduate University's (OIST) **Energy Materials and Surface Sciences Unit** have found that growing a type of film used to manufacture solar cells in ambient air gives it a growth boost. The finding, which could make manufacturing solar cells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

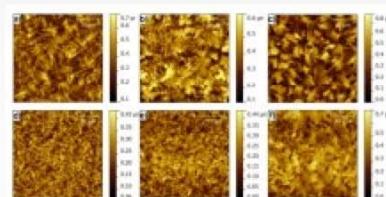
Earlier studies had concluded that exposing perovskite films to ambient air was detrimental because moisture reacted with perovskite, which degraded over time. It was therefore believed the material had to be prepared using a heat treatment called annealing in a water-free environment.

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](#)

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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.

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Location: C016, Lab 1
Demo: Leica's newest super r
When: 2014/6/9, 15:00:00
Location: TBD
Seminar on 'Interuniversity B
When: 2014/6/11, 6:00:00
Location: Seminar Room C209
Town Hall Meeting with Master
When: 2014/6/12, 5:00:00
Location: C209
Musical: Our Blue Planet: Play
When: 2014/6/14, 7:00:00
Location: OIST Auditorium
OCNC 2014: OIST Computatio
When: 2014/6/16, 0:00:00
Location: Seaside House
Seminar by Shinobu Nomura:In
When: 2014/6/16, 5:00:00
Location: D015 Meeting Room, Level D
'Horizon2020: New opportunit
When: 2014/6/17, 8:00:00
Location: Center Building B250
Basic Life Support (CPR/AED)
When: 2014/6/18, 4:00:00
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The 2nd Okinawa Karate & Ko
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Yoga class at Chura Hall (15:00)
2014/6/6 Other, Sports
Upcoming Events for the Week
2014/6/5 Recommendation, Recreation
Classic Concert: Odo Chambe
2014/6/5

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