

# 琉球大学学術リポジトリ

## 活動報告・その他

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2004年から始まったCOEプログラムでは、5年間もの間、様々な活動を行ってきました。

琉球大学21世紀COEプログラムの教育計画の一つに挙げられているInternational Summer Program (以下サマープログラム)は、平成17年(2005年)から計4回開催されました。

COEセミナーは46回開催され、国内外の先生方にご講演いただきました。



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# サマープログラム2005

## 第1回COE国際サマープログラム実施報告

竹村 明洋(種の多様性研究グループ)

琉球大学21世紀COEプログラムの教育計画の一つに挙げられているInternational Summer Program(以下サマープログラム)が平成17年度から始まった。今年度のサマープログラムは、西原町の琉球大学キャンパス(主に理学部)と本部町の熱帯生物圏研究センター瀬底実験所において平成17年6月27日から8月26日の2ヶ月間にわたって行われた。

プログラム及び担当講師は以下の通りである。

1. Diversity of food relationships and symbiosis in coral reefs (担当講師:土屋誠、日高道雄、上原剛)
2. Physiological adaptation of fishes in coral reef environment (担当講師:竹村明洋)

招聘講師としてJohn M. Laurence博士(南フロリダ大学生物学科教授)、Thomas Moon博士(オタワ大学生物学科教授)及びMathilakath Vijayan博士(ワートルロー大学生物学科助教授)を招いた。アメリカ合衆国、カナダ、中国、バングラデシュ、韓国(2名)及び日本の計7名の学生が受講した。

サマープログラムの一週間は、生物多様性に関するセミナー(月曜日午前中)、それぞれの研究(月曜日午後～金曜日午前)、そしてプログレスレポート(金曜日午後)をユニットとして組み立てた。また、サマープログラムの受講生や講師と、琉球大学の学生やポスドクとの融和も図るために、沖縄の伝統行事への共同参加や誕生パーティ、さらにはフィールドトリップなどを頻繁に企画した。



フィールドトリップ後の集合写真



実験中の受講生



サマープログラム担当講師と受講学生との研究打ち合わせ風景



沖縄伝統行事(ハーリー競争)に国際チームとして参加

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## 第2回COE国際サマープログラム実施報告

伊澤 雅子(生態系の多様性研究グループ)

本年度のサマープログラムは、琉球大学西原キャンパスと石垣島において、6月28日から8月17日の約2ヶ月にわたって行われた。今回は、陸域の生物多様性をテーマとし、中国からHuang Zhongliang博士(Chinese Academy of Sciences)を招聘し、以下のような2つのコースで行った。

1. Species diversity, spatial structure, and ecological property of the humid subtropical forest (担当講師:萩原秋男、横田昌嗣、傳田哲郎)
2. Impact of exotic vertebrate on the native biodiversity on a subtropical island (担当講師:太田英利、伊澤雅子、立原一恵、今井秀行、佐藤綾)

コース1は、琉球列島や隣接する地域において典型的な極相ないし極相に近い植生のひとつとされる常緑広葉樹林を対象に、その種組成、それぞれの種の空間配置、そして生態的機能に関する総合的な理解を目的とした。コース2は、湿潤亜熱帯島嶼における、島外から人為的に持ち込まれた動物の在来生物相に対する影響の形や程度について解析することを目的とした。両コースとも野外調査は南琉球の石垣島で行った。

本プログラムの参加者は、タイ(1名)、インド(1名)、中国(2名)から計4名と、琉球大学の留学生(韓国から1名、バングラディッシュから1名)、琉球大学博士後期課程に在学中の日本人学生の計7名であった。

植物班では、於茂登岳中腹に400平方メートルのコードラートを設置し、その中のすべての植物個体にマーキングを行って、種名と幹直径、樹高を記録した。そしてそれらのデータより、森林の層構成や構成種のパターンを解析した。

一方、動物班では、二次林であるバナナ公園や水田地帯において、外来種であるオオヒキガエルと在来のカエル類の生息密度や、胃内容物を調べた。

そしてそれらのデータより、オオヒキガエルと在来カエルとの間の競争の種類と程度を解析した。

これらの野外調査は、参加者にとっては新しい経験であり、最初は不慣れであったものの、スタッフにアドバイスを受けながら徐々に慣れていった。



植物班野外調査風景: 毎木調査



動物班野外調査風景: カエルのセンサス(下)

この後、琉球大学西原キャンパスにて、石垣島で得られたデータの解析とディスカッションを行い、サマープログラムの研究成果発表会を開催した。

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# サマープログラム2007

## 第3回COE国際サマープログラム実施報告 「サンゴの個体群動態、生殖、発生、共生生物学」

日高 道雄(理学部)・酒井 一彦(熱帯生物圏研究センター瀬底実験所)

2007年6月23日より8月22日までの2ヶ月間、琉球大学熱帯生物圏研究センター瀬底実験所にて、第3回COE国際サマープログラムを開催した。今回のサマープログラムでは、サンゴの個体群動態、生殖、発生、そして共生生物学に関する理解を深めることを目的とし、参加学生は、国際的なサンゴ礁研究者との共同研究および講義を通して上記の研究分野について体験しながら学ぶことができた。

企画・運営は、日高道雄(理学部教授)・酒井一彦(熱帯生物圏研究センター瀬底実験所准教授)がコーディネーターとして担当し、実際の運営にはCOE研究員2名(磯村尚子・波利井佐紀)が協力した。さらに国内外の著名なサンゴ礁研究者7名を招聘し、講義および実験指導に協力してもらった。受講者は、外国人12名、日本人3名の計15名であった。

研究は(1)サンゴの個体群動態と生殖生態学、および(2)サンゴの発生と共生生物学の2つのプロジェクトに分かれ、前者を酒井、後者を日高が担当した。

各参加者は、これら2つのプロジェクトのどちらかに参加し、関連したテーマを研究した。参加者は、本プログラム中に得られた結果を取りまとめ、レポートを作成し、そのうちのいくつかについては学術雑誌上で公表されている。

講義は、サンゴの生態学、生理学、共生生物学、環境問題とストレス応答、分子生物学、進化そして生物統計学など幅広い分野にわたって提供された。

### 研究テーマについて プロジェクト1.

サンゴの個体群動態と生殖に関するプロジェクト(酒井担当)では、下記の研究テーマについて野外調査と水槽実験を行った。

- (1)クサビライシ科サンゴの生態分布:瀬底島北の離礁5地点でクサビライシ科サンゴの水深別の分布調査を行った。
- (2)クサビライシ科サンゴの種内および種間競争:水中重量法により種内競争と種間競争のどちらが、成長に影響を及ぼすかを検討した。
- (3)クサビライシ科サンゴの幼生生態:同種サンゴ、他種サンゴおよび藻類が、幼生の定着行動に及ぼす影響を検討した。
- (4)クサビライシ科サンゴの種間交雑:雌雄異体のトゲクサビライシとマルクサビライシの間で、種間の交雑が起こるかを検討した。
- (5)ナガウニの分布パターンと性比

### 招聘講師

- Prof. Yossi Loya (Tel-Aviv University, Israel)  
Prof. Robert van Woesik (Florida Institute of Technology, USA)  
Dr. Kazue Aso (Seikei University, Japan)



瀬底実験所玄関での記念写真

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特に苦労した点は、満月の後1週間以上続けた、深夜から早朝におよぶサンゴの放卵放精の観察である。サマープログラム参加者に加え、瀬底実験所で研究を継続している非常勤研究員や大学院生の協力も得て、時間別にローテーションを組んで観察にあたった。



クサビライシの産卵を観察するロヤ教授と受講生



野外調査に出かける受講生

## プロジェクト2.

サンゴの発生と共生生物学に関するプロジェクト(日高道雄担当)では下記の研究が行われた。

- (1)ミドリイシ属サンゴの発生過程および褐虫藻との共生開始機構:褐虫藻感染の時期およびプラナラ幼生内での分布パターンの変化を調べた。
- (2)サンゴ幼生や一次ポリプのストレス耐性と褐虫藻タイプの関係:様々な宿主由来の褐虫藻を与え、異なる褐虫藻タイプをもつサンゴポリプの成

長率やストレス耐性を比較した。

(3)培養褐虫藻を用いて、増殖速度や遊走細胞形成頻度が温度ストレスによりどのように変化するかを調べた。

(4)サンゴと共生する褐虫藻がサンゴ礁底質に存在することを感染実験により証明した。

(5)イソギンチャクと褐虫藻の共生開始に伴うタンパク質プロファイルの変化

(6)サカサクラゲのテロメアの研究

## 招聘講師

Prof. Robert A. Kinzie III (University of Hawaii, USA)

Dr. Andrew Baird (James Cook University, Australia)

Dr. Misaki Takabayashi (University of Hawaii at Hilo, USA)

Dr. Toshiki Watanabe (Ocean Research Institute, University of Tokyo, Japan)



褐虫藻の単離培養を指導する  
キンジー教授と受講生

特に苦労したのは、実験材料であるサンゴのプラナラ幼生の確保であった。多くの人たちの協力を得て、5月の産卵時期に生まれたプラナラ幼生を毎日新鮮な濾過海水で水換えを行い飼育し、サマープログラムの開始時まで幼生をもたすことができた。

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## 第4回COE国際サマープログラムの実施報告

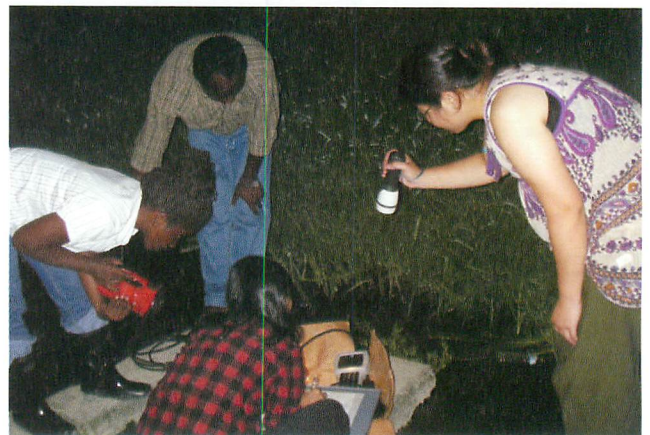
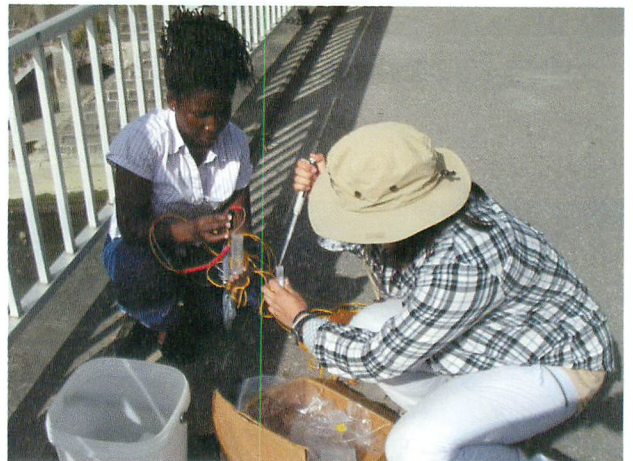
新垣 誠司 (COE研究員)

第4回COE国際サマープログラムは、2008年6月17日から8月15日までの2ヶ月間、西原キャンパスを拠点として開催された。海外(アメリカ、イスラエル、タンザニア)から招聘講師3名と大学院生4名を迎え、本学からも大学院生5名が参加し、琉球列島に存在する多様な生態系の機能や相互の関連について、物質循環の視点から研究に取り組んだ。特に、陸と海をつなぐ河川生態系と多彩な生態系が混在する沿岸生態系に着目して活動した。オーガナイザーとして土屋誠、大森保、藤村弘行、および新垣誠司が企画と運営を担当した。招聘講師としてProf. Robert H. Richmond (University of Hawaii, USA)、Prof. Zvy Dubinsky (Bar Ilan University, Israel)、Dr. Prosper Mfilinge (University of Dar es saalam, Tanzania)が講義を行った。

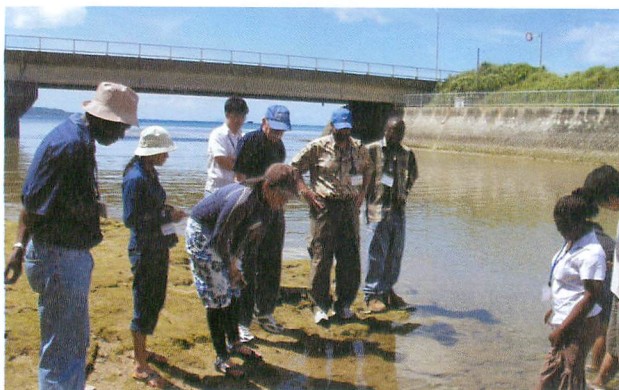
今回のサマープログラムは、沖縄島の河川と備瀬海岸をフィールドに2つのプロジェクトを柱とした。それぞれ森林-河川-沿岸、砂浜-海草藻場-サンゴ礁を三位一体のシステムとしてとらえ、その成り立ちと多様な機能を明らかにするための取り組みがなされた。



Dubinsky教授を交えて研究計画について議論する参加者たち



報得川の水質測定: 昼間(上)、夜間(下)



報得川の水質測定: 昼間(上)、夜間(下)

河川プロジェクトは、自然林の残る沖縄島北部の源河川、および人工的な環境に囲まれた南部の

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報得川と国場川で、定期観察や24時間観察によって栄養塩や溶存酸素などの時空間変化を明らかにした。そのほか、落ち葉の分解速度を調べる実験やバクテリア、底生微細藻類、流下有機物、底生巻貝類の定量調査をおこない、河川ごとの特徴と違いについて考察した。

備瀬海岸は、砂浜、海草藻場、サンゴ礁などの異なる環境が連続的に分布し、流入河川がないといった特徴を持っている。備瀬プロジェクトでは、簡易式チャンバーを用いて、流入地下水や海草・サンゴなどの底生生物が沿岸域の物質循環に与える影響を複数の環境下で調べ、違いを明らかにした。そして、栄養塩、アルカリ度、溶存態炭素などの測定結果をもとに生物の活動と水質の変化について考察した。そのほか、異なる環境下でのサンゴと海草の関係を調べた。



備瀬海岸でのチャンバー実験：干潮時の砂浜へチャンバーを設置（上）、満潮時に海草域のチャンバーから採水（下）

また、2005年度にCOEの設備として導入された湿式自動化学水質分析装置(QuAAtro)は、両プロジェクトを通じて大活躍であった。短時間に多くのサンプルを処理できるため、効率よく分析を進めることができた。

参加者は、期間中に得られたデータを取りまとめ、2グループに分かれて成果発表をおこなった。各グループの内容と担当者は、次のとおりである。

## Group 1. Biological, chemical and physical characteristics of river systems in the Okinawa Island

1. Introduction (Ohnmar Myint)
2. Sites and diurnal variation of the chemical and physical aspects in the river system (Izumi Mimura)
3. Biological, Chemical and physical characteristics of Okinawan Rivers (Shadrack Ulomi)
4. Occurrence of Total and Fecal Coliform Bacteria in Okinawan rivers (Baraka Sekadende)

## Group 2. Ecological relationship and biogeochemical cycles in the Bise coral reef, Okinawa

1. Recovery of photosynthetic activity under stress conditions (Itay Cohen)
2. Growth dynamics of *M. digitata* in the Coral reef and the Seagrass beds (Shachar Koren)
3. Ecological relationships and biogeochemical cycles in the Bise coral reef, Okinawa (Kimberly K. Takagi)
4. pH, Alkalinity & Carbon production in Chamber Exp. (Tomihiko Higuchi)
5. Outflowing water from the sediment (Kana Matoba)

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# 国際シンポジウム・ワークショップ

日付	タイトル	Photo
2005/3/10-11	<b>第1回 国際シンポジウム</b> [サンゴ礁島嶼系の生物多様性]  【開催場所】 2005/3/10 10:00-16:00 ポスターセッション (琉球大学研究者交流施設・50周年記念館) 2005/3/11 9:00-17:30 沖縄県コンベンションセンター 会議棟A	
2005/11/07-8	<b>第2回 国際シンポジウム</b> [ネコ科研究最前線:その生態の多様性と保全]  【開催場所】 2005/8/7 9:30-17:30 琉球大学西原キャンパス 大学会館3階ホール	
2006/12/4-7	<b>第3回 国際共同シンポジウム</b> "Tropical Island Ecosystem and Sustainable Development"  ※Centre de Recherches Insulaires et Observatoire de l'Environnement (CRIOBE)およびRichard B. Gump South Pacific Research Station (University of California Berkeley)との共同シンポジウム  【開催場所】 Moorea, French Polynesia	
2007/9/25-29	<b>第4回 国際ワークショップ</b> "International Workshop on Tropical Island Biodiversity: Across Land and Sea"  【開催場所】 シンガポール国立大学 (シンガポール) および ティオマン島(マレーシア)	
2008/11/1	<b>第5回 国際ワークショップ</b> 生物多様性と侵略的外来種:世界各地の事例からの教訓 【開催場所】 琉球大学法文学部講義棟大講義室	
2008/11/3	<b>第5回 国際シンポジウム</b> 沖縄の生物の未来 -生物多様性の島から環境を考える- 【開催場所】 沖縄コンベンションセンター / 会議棟A	

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# COEシンポジウム(主催)

日付	タイトル	ポスター
2004/10/6	第一回シンポジウム開催 「サンゴ礁島嶼系の生物多様性研究 その意義と革新的展開」	
2004/11/22	特別講演会「琉球列島の生物多様性と私」	
2004/12/4	北大-京大-琉大連携水圏フィールド科学シンポジウム	
2005/3/14	教育セミナー:初心者向けSEM講習会「SEMで何が見えるか」	
2005/5/14	公開シンポジウム [ 琉球列島の生物研究の新たな展開 ]	
2005/6/18	京都大学・北海道大学・東京大学・琉球大学4拠点合同公開シンポジウム 「生物の多様性-その成り立ちと保全-」	
2005/10/8-11	The 4th International Symposium [Marine Bio-Manipulation Frontier for Food Production]	
2005/11/07-8	石垣島シンポジウム [亜熱帯・熱帯域に生息する南方系魚類の性成熟研究と 種苗生産技術開発に関する研究会]	
2005/12/19-22	生物多様性4拠点連携プログラム SCS Joint Seminar [生物多様性研究の連携と発展]	
2006/7/28-29	21世紀COE 北海道大学・東京大学・京都大学・琉球大学 4拠点合同公開シンポジウム『多様性と自然史ー地球と生物の相互関係』	
2006/11/6	ワークショップ 「サンゴ礁と海底熱水活動が生み出す生態系」	
2008/12/13	第5回 棘皮動物研究集会「棘皮動物学の最前線」	

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# COEシンポジウム(共催)

日付	タイトル	ポスター
2005/3/19	COE共催公開シンポジウム 「琉球列島の生物地理学研究—最近の話題と今後の展開—」	
2006/5/13	琉球大学21世紀COEプログラム・沖縄生物学会共催公開シンポジウム 『レッドデータブックを考える』	
2006/9/14	琉球大学熱帯生物圏研究センター共同利用研究会 (琉球大学21世紀COEプログラム共催) 「生物時計の多様性と生態機能に関する研究のトピックス」	
2007/5/26	21世紀COEプログラム共催 沖縄生物学会 第44回大会・公開シンポジウム 『外来種法の盲点-見えない脅威と琉球列島の生物多様性-』	
2008/5/24	琉球大学21世紀COEプログラム共催 土壌動物学会・沖縄生物学会合同 公開シンポジウム 「沖縄の生物:環境変化がもたらした影響」	





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日付	セミナー内容	講演者	ポスター
第1回 2004/ 9/29	Azolla-Cyanobacteriasymbiosis for Rice Productivity-Use of Cyanobacteria for Sustainable Rice Productivity in Nepal -ネパールにおけるラン藻-ウキクサ共生系の応用による食糧増産研究	<b>Prof. Braj Nandan Prasad</b> (Tribhuvan大学、ネパール) Co-ordinator, Biotechnology TribhuvanUniversity, Nepal	
第2回 2004/ 10/4	The use of fatty acid markers to assess the origin and fate of organic matter in coastal environment 沿岸域における有機物の起源と運命-脂肪酸を用いた解析-	<b>Dr. Tarikk Meziane</b> Centre for Aquatic Processes and Pollution School of Environmental and Applied Sciences and Griffith University-Australia	
第3回 2004/ 12/14	Suppression of root rot diseases by brassicaspp. Seed meal amendments アブラナ搾りかすを用いた植物感染抑制	<b>Dr. Michael F. Cohen</b> (米国農務省USDA-ARS、ワシントン) USDA-ARS, Fruit Tree Research laboratory Washington, USA	
第4回 2005/ 1/24	Sequestered defensive compounds in amphibians and reptiles:Are they more common than we think? Chemical evidence for dietary toxin sequestration in the yamakagashi, <i>Rhabdophis tigrinus</i>	<b>Alan H. Savitzky</b>  <b>Deborah A. Hutchinson</b>	
第5回 2005/ 1/28	沖縄の海にサンゴは戻らない? 沖縄のサンゴ礁における野外研究の現状と展望	桑村哲夫(中京大学・教養部) 西川昭(琉球大学・熱帯生物圏研究センター) 酒井一彦(琉球大学・熱帯生物圏研究センター) 中嶋康裕(日本大学・経済学部)	
第6回 2005/ 2/18	The evolutionary dynamics of mariner elements in silkmoths	<b>Dr. Nagaraju, J.</b> CDFD研究所、分子遺伝部・部長、ハイデラバード Staff Scientist & Chief, Laboratory of Molecular Genetics, Center for DNA Fingerprinting and Diagnostics, Hyderabad, India	
第7回 2005/ 3/4	"Astrobiology and the living rocks of Shark Bay." 「宇宙生物学とシャークベイの生きている岩」  "Inactivation of an ABC transporter, mcyH, results in loss of microcystin production in the cyanobacterium"	<b>Dr. Brett A. Neilan</b> Fellow of the Australian Research Council and Chair of Environmental and Health Microbiology, School of Biotechnology and Biomolecular Sciences, The University of New South Wales  <b>Ms. Leanne Pearson</b> School of Biotechnology and Biomolecular Sciences The University of New South Wales	
第8回 2005/ 3/16	Genetic and environmental determinants of sex differentiation in the european sea bass ( <i>Dicentrarchus labrax</i> ).	<b>Dr. Francesc Piferrer</b> Institute of Marine Sciences, Spanish Council for Scientific Research, Barcelona, Spain	
第9回 2005/ 7/1	Fish hormones and pharmaceuticals as endocrine disruptors  Stress axis in fish: mechanisms of action and in action	<b>Prof. Thomas Moon</b> Department of Biology, University of Ottawa, Canada  <b>Dr. Matt Vijayan</b> Department of Biology, University of Waterloo, Canada	
第10回 2005/ 7/20	Integrated events during onset of coral-algal symbiosis	<b>Prof. Yehuda Benayahu</b> Department of Zoology, Tel Aviv University	

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第11回 2005/ 9/29	生物多様性の分子的基盤を求めて 嗅覚系の分子神経生物学からチョウの多様性生物学へ  水域の中核種 生態系機能におけるザリガニ類の役割	<b>大瀧 丈二</b> 神奈川大学・理学部・生物科学科、助手  <b>西川 潮</b> 国立環境研究所・生物多様性プロジェクトグループ、 NIESポスドクフェロー	
第12回 2005/ 10/12	“Mangrove trophic ecology: myths, missing links and methodological issues” マングローブ域の食物連鎖:すべての生物は本当につながっているか?	<b>Dr. Joe S.Y. Lee</b> Director of the Centre for Aquatic Processes and Pollution, School of Environmental and Applied Science Griffith University, Australia. Centre for Aquatic Processes and Pollution 所長	
第13回 2006/ 6/6	Photosynthesis and Chlorophyll Fluorescence 「光合成とクロロフィル蛍光測定」	<b>園池 公毅</b> 東京大学・新領域 <b>Dr. Kintake Sonoike</b> Associate professor, The University of Tokyo	
第14回 2006/ 7/18	Fish mariculture and the coral reefs of Eilat: an unhappy marriage 魚の養殖とエイラットのサンゴ礁:不幸な結婚	<b>Dr. Yossi Loya</b> Department of Zoology, Tel Aviv University, Israel	
第15回 2006/ 8/4	Molecular phylogeny and morphological evolution in lizards of the genus Plestiodon (Reptilia: Squamata)	<b>Matthew C. Brandley</b> Department of Integrative Biology University of California, Berkeley	
第16回 2006/ 9/21	Maintenance mechanisms of plant species diversity in a subtropical forest on the Ryukyu Islands 琉球列島における亜熱帯林の植物種多様性維持機構	<b>久保田康裕</b> (鹿児島大学・教育学部) <b>Dr. Yasuhiro Kubota</b> Faculty of Education Kagoshima University	
第17回 2006/ 9/29	Thai Seagrass Community: present and future challenges	<b>Dr. Chittima Aryuthaka</b> Kasetsart University, Bangkok, Thailand	
第18回 2006/ 10/26	Can phytoplankton cope with the increase of ultraviolet due to ozone depletion?	<b>Dr. Josee Bouchard</b> Institute des Sciences de la Mer de Rimouski, Quebec, Canada	
第19回 2006/ 11/7	沖縄トラフの熱水活動が作り出す深海環境	<b>石橋純一郎</b> 九州大学 理学研究院 地球惑星科学部門助教授	
第20回 2006/ 11/14	Why and how are sun leaves thicker than shade leaves? - An approach based on analysis of CO <sub>2</sub> diffusion within a leaf 陽葉は陰葉よりもなぜ厚いのか? CO <sub>2</sub> の拡散から考える。	<b>東京大学教授 寺島 一朗</b> <b>Prof. Ichiro Terashima</b> (The University of Tokyo)	

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第21回 2006/ 11/20	Microbial Bioremediation 微生物による環境浄化	<b>Rajendran Palaniswami, Ph.D.</b> Reader in Zoology, Vivekananda College Madurai Kamaraj University, INDIA	
第22回 2007/ 1/23	スナギンジャク目の系統と進化 サンゴにおける水流環境の重要性 東北地方の汽水域に生息する埋在性二枚貝 -その餌資源、環境改変効果および種間相互作用-	<b>James Davis Reimer</b> (高知県黒潮生物研究所) 中村 崇(琉球大学理工学研究科) 金谷 弦(東北大学東北アジア研究センター)	
第23回 2007/ 4/27	Molecular Diversity of the Olfactory System 嗅覚系の分子多様性	<b>Prof. Peter Mombaerts</b> Professor and Head, Laboratory of Developmental Biology and Neurogenetics, The Rockefeller University, New York	
第24回 2007/ 6/18	Black algae on white walls: Gloeocapsa, etc. (Cyanophyta): 白い壁を覆う黒い藍藻  Insects in marine environments: 海の昆虫	<b>Dr. Ralph A. Lewin</b> (Scripps Institute of Oceanography, UCSD) Lewin 博士(スクリプス海洋研究所) <b>Dr. Lanna Cheng</b> (Scripps Institute of Oceanography, UCSD) Cheng博士(スクリプス海洋研究所)	
第25回 2007/ 6/19	What microarrays are telling us about the cell biology of cnidarian-dinoflagellate symbioses	<b>Dr. Mauricio Rodriguez-Lanetty</b> UQ Postdoctoral Fellow - Centre for Marine Studies, University of Queensland"	
第26回 2007/ 6/21	Molecular cytogenetic approach to comparative genomics of amniotes Chromosome evolution and sex chromosome differentiation in birds and reptiles 有羊膜類のゲノム比較への分子細胞遺伝学的アプローチ	松田 洋一教授 <b>Prof. Yoichi Matsuda</b> Animal Cytogenetics Research Group, Creative Research Initiative, Hokkaido University 北海道大宅創生科学共同研究機構動物染色体研究グループ	
第27回 2007/ 9/19	Field Biology of Placozoans(Trichoplax) Lunar reproductive cycles and hybridization in Diadema	<b>Dr. Vicki Pearse</b> (University of California, Santa Cruz) <b>Dr. John Pearse</b> (University of California, Santa Cruz)	
第28回 2007/ 10/23	Dynamical systems approaches to neuroscience	<b>Dr. Klaus M. Stiefel</b> Principle Investigator, Theoretical and Experimental Neurobiology Unit Okinawa Institute of Science and Technology (OIST) 独立行政法人 沖縄科学技術研究基盤整備機構 沖縄科学技術大学院大学 「実験神経生物学ユニット」研究代表者 クラス・シュティーフェル博士	
第29回 2007/ 11/19	Influence of the microflora on the gastrointestinal nitric oxide generation Studies in newborn infants and germ-free animals	<b>Dr. Tanja Sobko</b> Dept of Infectious Diseases Kyorin University School of Medicine	
第30回 2007/ 12/11	The stress response in fish, relevance to climate change and the environment	<b>Prof. George K. Iwama</b> Dean of Faculty of Science Department of Biology Carleton University, Canada	

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第31回 2008/ 2/4	Investigating coral biology using ESTs and microarrays Candidate genes for calcification, Metamorphosis and symbiosis	<b>Prof. David J. Miller</b> Biochemistry and Molecular Biology, Comparative Genomics Centre, James Cook University	
第32回 2008 1/25	<b>「生物多様性と分析化学」</b> 細胞膜受容体による外界情報処理機構 - 多様な生物に見出される共通性 - (蛍光相互相関分光分析法の応用)  電気生理学的な手法を用いたシナプス伝達解析 (パッチクランプ法と2光子励起顕微鏡の応用)	<b>丸山 一郎 博士</b> (OIST・情報処理生物学ユニット長)  <b>新道 智視 博士</b> (OIST・神経生物学ユニット研究員)	
第33回 2008/ 4/24	二次イオン質量分析計による生物起源炭酸塩の分析 Analysis of biogenic carbonate using NanoSIMS (Secondary Ion Mass Spectrometry) SIMSが切り拓く準非破壊分析による高分解能環境指標分析の未来	<b>Prof. Yuji Sano</b> Ocean Research Institute, The University of Tokyo 東京大学海洋研究所教授 佐野 有司	
第34回 2008/ 5/1	High speed and highly sensitive biomolecule measurements by MEMS based microdevices MEMS技術による極微小デバイスを用いた生体分子高速・高感度計	<b>新田英之 博士</b> キューリー研究所研究員	
第35回 2008/ 5/20	21st Century Center of Excellence program (COE) for University of the Ryukyus and Okinawa Institute of Science and Technology (OIST) Joint Seminar	<b>佐藤 矩行(OIST) Dr. Nori Satoh</b>  <b>日高 道雄 Dr. Michio Hidaka</b>  <b>徳田 岳 Dr. Gaku Tokuda</b>	
第36回 2008/ 6/13	Environmental controls and evolutionary constraints on coral symbiosis: can corals cope with the stress of modern life?	<b>Dr. Andrew H. Baird</b> Principal Research Fellow ARC Centre of Excellence for Coral Reef Studies, James Cook University, Townsville	
第37回 2008/ 6/21	1. Watersheds and Coral Reefs Conservation Science, Policy and Implementation 2. Reproduction and Recruitment in Corals Critical Links in the Persistence of Reefs 3. Valuation of corals and coralreefs	<b>Robert H. Richmond, Ph.D</b> Research Professor Kewalo Marine Laboratory University of Hawaii at Manoa	
第38回 2008/ 6/24	The underwater light field and aquatic photosynthesis Estuarine processes and functions  Nutrient and energy fluxes in corals	<b>Prof. Zvy Dubinsky</b> Professor of Aquatic Photobiology and Coral Ecophysiology Faculty of Life Sciences Bar Ilan University, Israel <b>Dr. Prosper Mfilinge</b> Lecturer, Faculty of Aquatic Sciences and Technology, Department of Aquatic Environment and Conservation University of Dar es salaam, Tanzania	
第39回 2008/ 6/26	The links/interactions between terrestrial and the critical marine habitats (mangrove, seagrasses and coral reefs)	<b>Prof. Zvy Dubinsky</b> Professor of Aquatic Photobiology and Coral Ecophysiology Faculty of Life Sciences Bar Ilan University, Israel <b>Dr. Prosper Mfilinge</b> Lecturer, Faculty of Aquatic Sciences and Technology, Department of Aquatic Environment and Conservation University of Dar es salaam, Tanzania	
第40回 2008/ 8/7	The stress axis in fish	<b>Matt M. Vijayan, Ph.D.</b> Professor Department of Biology University of Waterloo (Canada)	

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第41回 2008/ 10/9	Sensory ecology and the neural control of behaviour in arthropods 節足動物の感覚生態学と神経動物行動学	<b>Dr. Stephan Shuichi Haupt</b> Research Center for Advanced Science and Technology, The University of Tokyo	
第42回 2008/ 10/24	Conservation and mongoose control (and eradication) in the West Indies: An overview	<b>Dr. Rafael Francisco Borroto Paez</b> Instituto de Ecologia y Sistemática, Cuba	
第43回 2008/ 11/26	Sound communication in different species of clownfishes (Amphiprioninae, Pomacentridae): anatomy, function and role	<b>Dr. Orphal Colleye</b> ベルギー、リユージュ大学	
第44回 2008/ 12/3	Transcriptional Regulation of Mammalian Sex Determination	<b>Dr. Tracy M Clement</b> School of Molecular Biosciences Washington State University	
第45回 2008/ 12/16	New Guinea a megadiverse hotspot	<b>Dr. Allen Allison</b> Vice Director, Bishop Museum, Hawaii	
第46回 2009/ 2/19	多重検出器型ICP質量分析計による同位体分析の最前線 炭酸塩中のMg・Ca・Sr安定同位体比による表層環境変動の解析に向けて	<b>大野 剛 特任助教</b> 東京工業大学大学院 理工学研究科地球惑星科学専攻	

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# 英文業績

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- 1 Akagi T, Y. Hashimoto, Fu F-F, H. Tsuno, H. Tao, and Y. Nakano 2004 Variation of the distribution coefficients of rare earth elements in modern coral-lattices: Species and site dependencies. *Geochim Cosmochim Acta* 68: 2265- 2273
- 2 Alhamd L, Arakaki S, Hagihara A 2004 Decomposition of leaf litter of four tree species in a subtropical evergreen broad-leaved forest, Okinawa Island, Japan. *For Ecol Management* 202: 1-11
- 3 Alhamd L, Hagihara A 2004 Litterfall of a subtropical evergreen broad-leaved forest in Okinawa island, Japan. *Tropics* 13: 255-268
- 4 Allingham JS, Tanaka J, Marriott G, Rayment I 2004 Absolute stereochemistry of ulapualide A. *Org Lett* 6: 597-599
- 5 Arakaki T, Shibata M, Miyake T, Hirakawa T, Sakugawa H 2004 Enhanced formation of formate by freezing in solutions of hydrated formaldehyde-metal-hydrogen peroxide. *Geochem J* 38: 383-388
- 6 Bhagooli R, Hidaka M 2004 Photoinhibition, bleaching susceptibility and mortality in two scleractinian corals, *Platygyra ryukyuensis* and *Stylophora pistillata*, in response to thermal and light stresses. *Comp Biochem Physiol Part A* 137: 547-555
- 7 Bhagooli R, Hidaka M 2004 Release of zooxanthellae with intact photosynthetic activity by the coral *Galaxea fascicularis* in response to high temperature stress. *Mar Biol* 145: 329-337
- 8 Cohen MF, Yamasaki H, Mozzola M 2004 Bioremediation of soils by plant-microbe systems. *Int J Green Energy* 1: 301-1312
- 9 Cohen MS, Mezine T, Yamasaki H 2004 A Photocarotenogenic *Rhodococcus* sp. isolated from the symbiotic fern *Azolla*. *Endocytosis Cell Res* 15: 350-355
- 10 Denda T, Yokota M 2004 Cytogeography of *Ixeris nakazonei* (Asteraceae: Lactuceae) in the Ryukyu Archipelago of Japan and Taiwan. *J Plant Res* 117: 3-11
- 11 Dominguez M, Takemura A, Tsuchiya M, Nakamura S 2004 Impact of different environmental factors on the circulating immunoglobulin levels in the Nile tilapia, *Oreochromis niloticus*. *Aquaculture* 241: 491-500
- 12 Dominguez M, Takemura A, Tsuchiya M, Nakamura S 2004 Impact of different environmental factors on the circulating immunoglobulin levels in the Nile tilapia, *Oreochromis niloticus*. *Aquaculture* 241: 491-500
- 13 Fujiwara MT, Nakamura A, Itoh R, Shimada Y, Yoshida S, Moller SG 2004 Chloroplast division site placement requires dimerisation of the ARC11/AtMinD1 protein in *Arabidopsis*. *J Cell Sci* 117: 2399-2410
- 14 Gwo JC, Yang WT, Kuo MC, Takemura A, Cheng HY 2004 Spermatozoal ultrastructures of two marine perciform teleost fishes, the goatfish, *Paraupeneus spilurus* (Mullidae) and the rabbitfish, *Siganus fuscescens* (Siganidae) from Taiwan. *Tissue Cell* 36: 63-69
- 15 Hamasaki K, Imai H, Akiyama N, Fukunaga K 2004 Ovarian development and induced oviposition of the overwintering swimming crab *Portunus trituberculatus* (Brachyura: Portunidae) reared in the laboratory. *Fish Sci* 70: 988-995
- 16 Hirose E, Akahori M 2004 Comparative morphology of the stolon vessel in a didemnid ascidian and some related tissues in colonial ascidians. *Zool Sci* 21: 445-455
- 17 Hirose E, Akahori M, Oka AT, Kurabayash A 2004 Some Prochloron-bearing didemnid ascidians collected from the reef shores of Iriomote Island (Okinawa, Japan). *Biol Mag Okinawa* 42: 7-15
- 18 Hirose E, Maruyama T 2004 What are the benefits in the ascidian-Prochloron symbiosis? *Endocytobiosis Cell Res* 15: 51-62
- 19 Hirose E, Ohtsuka K, Ishikura M, Maruyama T 2004 Ultraviolet absorption in ascidian tunic and ascidian-Prochloron symbiosis. *J Mar Biol Ass. UK* 84: 789-794
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- 22 Ikeda Y, Ueta Y, Sakurazawa I, Matsumoto G 2004 Transport of the oval squid *Sepioteuthis lessoniana* Ferussac, 1831 in Lesson 1830-1831 (Cephalopoda: Loliginidae) for up to 24 h and subsequent transfer to an aquarium. *Fisheries Sci* 70: 21-27
- 23 Ikeda Y, Uji R, Kidokoro H 2004 Notes on an exhausted Japanese common squid, *Todarodes pacificus* (Cephalopoda: Ommastrephidae), with an unusually short arm. *Bull Fac Sci Univ Rykyu* 77: 143-147
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- 25 Islam MS, Uehara T, Shokita S, Rahman MA 2004 Feeding ecology of the sesamid crab *Neosarmatium tripinnosum* Davie (Crustacea: Brachyura) from the mangrove swamp of Ryukyu Island in Japan. *Island Biodiversity and Conservation. ISLANDS OF THE WORLD VIII International Conference "Changing Islands-Changing Worlds".* (Lee KJ, Tsai H-M Eds), Kinman Island (Quemoy), Taiwan, pp. 269-278.
- 26 Kamimura S, Tsuchiya M 2004 The effect of feeding behavior of the gastropods *Batillaria zonalis* and *Cerithideopsis cingulata* on their ambient environment. *Mar Biol* 144: 705-712
- 27 Kasugai T, Shigeno S, Ikeda Y 2004 Feeding and external digestion in the Japanese pygmy squid *Idiosepius paradoxus* (Cephalopoda : Idiosepiidae). *J Mollus St* 70: 231-236
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- 30 Kobayashi Y, Kobayashi T, Nakamura M, Sunobe T, Morrey CE, Suzuki N, Nagahama Y 2004 Characterization of two types of cytochrome P450 aromatase in the serial-sex changing gobiid fish, *Trimma okinawae*. *Zool Sci* 21: 417-425
- 31 Kokubugata G, Peng C-I, Yokota M 2004 Comparison of karyotypes among three *Heloniopsis* species (Liliaceae) from Ryukyu Archipelago and Taiwan. *Annu Tsukuba Bot Gard* 23: 13-16
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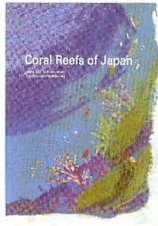
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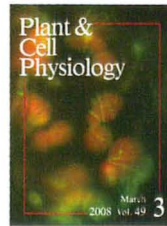
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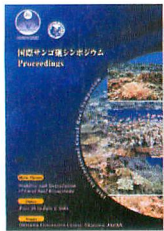
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遺伝子の多様性  
研究グループ

種の多様性  
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生態系の多様性  
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活動報告その他

## 集落の新しい住人

### ヤンバルクイナ *Gallirallus okinawae* (ツル目クイナ科)

沖縄島北部(やんばる)のみに生息する森林棲の鳥類。飛翔力はないが強靱な脚を持ち、夜間は木に登り寝る。絶滅危惧種ⅠA類に指定されており、現在もっとも絶滅に近い鳥類のひとつである。本種は直接観察が困難であり、その生態のほとんど不明である。

近年、過疎化に伴う農地の放棄などにより集落周辺での目撃が増加した。集落周辺では直接観察の機会が多く、山地部では見られなかった新たな生態の解明が期待できる。



撮影場所: 国頭村 井ノ口 彰良: 理工学研究科