

CURRICULUM VITAE

名前: 齊藤宏明
生年月日: 1963年8月13日
住所: 〒277-0882 千葉県柏市柏の葉 6-3-7-704
所属: 東京大学大気海洋研究所国際連携研究センター国際協力分野
大学院農学生命科学研究科水圏生物学専攻
大学院新領域創成科学研究科先端生命科学専攻
所属住所: 〒277-8564 千葉県柏市柏の葉 5-1-5
役職: 教授
電話: 04-7136-6360
e-mail: hsaito@aori.u-tokyo.ac.jp
Web site: <https://www.aori-saitolaboratory.com/>
SCOPUS: 56443094100
ORCID: 0000-0002-5502-9076
Researchmap: <https://researchmap.jp/trorod>

研究テーマ

私は、海洋生態系の動態と生物地球化学循環に果たす海洋生物の役割をプランクトンを中心に研究しています。研究テーマの一つは、珪藻、渦鞭毛虫、カイアシ類、魚類稚仔の生物学と生態学および食物網構造であり、特に物理擾乱や環境変動に対する応答、分子生物学的手法を用いた生物地理や生態系機能に関する研究を行っています。もう一つのテーマは海洋生物の生物地球化学循環に果たす役割です。大規模な、または微小スケールの物理過程により供給された生元素が、生物によってどのように取り込まれ、また粒子化され、化学形態を変化させながら循環するかについて研究しています。

海洋生態系の変動機構を把握し、その将来を予測するためには、海洋物理学、生物地球化学、生物海洋学、水産科学等様々な学術分野で得られる知見の統合が必須です。私は、我々の社会が大きく依存している海洋生態系サービスの持続的利用のための道筋を示すため、国際プロジェクト IMBeR(海洋生物研統合研究)や PICES (政府間北太平洋科学機関) 等と連携し、世界の科学者と共にこの統合研究活動に参加しています。

学歴

1982年3月 福島県立福島高校卒業

1986年3月 東北大学農学部卒業
1987年3月 東北大学大学院農学研究科中退

学位

1986年3月 農学士、東北大学農学部
1996年2月 博士（農学）、東北大学

受賞歴

1998年4月 日本海洋学会岡田賞
1999年9月 水産海洋学会論文賞（共著者）
2003年3月 日本プランクトン学会論文賞（共著者）
2007年3月 日本海洋学会日高論文賞（共著者）
2008年4月 日本海洋学会日高論文賞（共著者）
2019年10月 Wooster Award, North Pacific Marine Science Organization（北太平洋科学機関）

職歴

2019- 東京大学大気海洋研究所所長補佐
2016 - 東京大学 大気海洋研究所 国際連携研究センター国際協力分野 教授
2014 - 2016 東京大学 大気海洋研究所 浮遊生物分野 准教授
2011 - 2014 独立行政法人水産総合研究センター・東北区水産研究所資源海洋部・生態系動態グループ長
2010 - 2011 長崎大学大学院非常勤講師
2007 - 2008 東京大学客員准教授（海洋研究所附属海洋科学国際共同研究センター）
2004 国立大学法人静岡大学非常勤講師（理学部）
2001 - 2011 独立行政法人水産総合研究センター・東北区水産研究所混合域海洋環境部・生物環境研究室長
1998 - 2001 北海道区水産研究所亜寒帯海洋環境部主任研究官
1998 - 1999 デンマーク水産研究所客員研究員
1994 - 2001 北海道大学低温研究所附属流水研究施設共同研究員
1992 - 1998 国立極地研究所共同研究員
1997 - 1998 北海道区水産研究所海洋環境部主任研究官
1990 - 1997 北海道区水産研究所海洋環境部研究員
1987 - 1990 北海道区水産研究所資源部研究員

参加学会

日本海洋学会
水産海洋学会
日本プランクトン学会
日本地球惑星科学連合
先進陸水海洋学会
アメリカ地球物理学連合

学会活動等

2018-2023 第24期、25期日本学術会議連携会員（特任）
2018- 日本学術会議IMBeR小委員会委員長
2018-2020 日本学術会議IIOE-2小委員会委員
2015-2020 日本学術会議SIMSEA小委員会委員
2015- 水産海洋学会評議員
2015- 2019 日本海洋学会幹事
2013- 日本海洋学会評議員
2012-2014 日本海洋学会将来構想委員会委員
2011-2014 日本海洋学会沿岸事業部会委員
2011-2013, 2014-2017, 2019-2021 日本海洋学会論文賞受賞候補者選考委員会委員
2009-2017 日本学術会議IMBER小委員会委員
2007-2013 日本水産海洋学会国際誌委員会委員
2007-2008 第20期日本学術会議特任連携会員（環境学委員会・地球惑星科学委員会
合同IGBP・WCRP合同分科会）
2004-2008 日本学術会議IMBER小委員会委員長
2003-2005 日本学術会議地球環境研究連絡委員会委員、IGBP専門委員会委員

学術雑誌編集活動

2022- Guest Editor, Deep-Sea Research Part II: Topical Studies in Oceanography, Special Issue: IMBeR West Pacific Symposium: Changing West Pacific Ocean: Science and Sustainability.
2021- Associate Editor for Marine Biogeochemistry (specialty section of Frontiers in Marine Science, Frontiers in Earth Science and Frontiers in Chemistry)
2020- Guest Associate Editor in Coastal Ocean Processes, Frontier in Marine Science (Topic Section: Oceanographic Processes Linking

- Nearshore, Continental Shelf, and Shelf Break)
- 2019 Editor. Kuroshio Current: Physical, Biogeochemical, and Ecosystem Dynamics (Geophysical Monograph Series, AGU) ISBN-13: 978-1119428343
- 2019 Guest Editor, Philippine Journal of Natural Sciences
- 2016 Guest editor of the Special Issue “Study of change in ecosystem and material cycle caused by climate change and its feedback in the western North Pacific”, Journal of Oceanography
- 2014 - Review Editor, Frontiers in Marine Science
- 2011-2019 Editor, Journal of Oceanography
- 2009 Guest Editors. Deep-Sea Research Part II. SEEDS II: The Second Subarctic Pacific Iron Experiment for Ecosystem Dynamics Study.
- 2007-2013 Editorial board, Fisheries Oceanography
- 2005-2011 Editor, Plankton and Benthos Research (Plankton Biology and Ecology until 2005)
- 2003- 2010 Associate editor, Progress in Oceanography.

国際活動

- 2022- Member, Study Group for External Review of PICES
- 2021- Member, International Steering Group on the Second Cooperative Study of Kuroshio and its Adjacent Regions (CSK-2), WESTPAC, IOC/UNESCO
- 2020-2021 Member, Study Group of ICES–PICES Ocean Decade
- 2020-2023 Project Coordinator (PI), JSPS Core-to-core CREPSUM program
- 2019-2021 Scientific Advisory Committee of the Fifth Xiamen Symposium on Marine Environmental Sciences
- 2019 Convenor, International Workshop on the Emergent Issues of Marine Ecosystems in the Southeast Asia: For Sustainable Use of Marine Ecosystem Services (Sep 5-7, 2019, Kashiwa, Japan)
- 2017-2019 Project Coordinator (PI), JSPS Core-to-core RENSEA program
- 2017- Member, NPOCE SSC, CLIVAR Pacific Panel
- 2016-2019 Chairman, PICES Science Board
- 2015-2016 Cochairman, PICES FUTURE SSC
- 2013-2016 Vice Chairman, PICES Science Board
- 2013-2014 Member, NPAFC-PICES Study Group on Scientific Cooperation in the

	North Pacific Ocean
2010-2012	Member, ICES/PICES Joint Study Group on "Developing a Framework for Scientific Cooperation in Northern Hemisphere Marine Science"
2009-2019	PICES Science Board
2009-2014	Chair of FUTURE Advisory Panel on Climate, Oceanographic Variability and Ecosystems, PICES
2009-2015	Member, PICES BIO Committee
2008-2010	Member, Working Group 22 (Iron supply and its impact on biogeochemistry and ecosystems in the North Pacific Ocean), PICES
2008- 2009	Cochairman, Future Implementation Plan Writing Team, PICES
2007-2008	Member, FISP Writing Team, PICES
2005-2009	Member, Study Group on Future Integrative Scientific Programs, PICES
2004 -2008	Member, IFEP Advisory Panel, PICES
2004-2008	Member, IGBP/SCOR IMBER SSC
2002 -2004	Member, IGBP/SCOR Ocean Biogeochemistry and Ecosystems Transition Team
2001-2005	Member, PICES Model Task Team

Project

- 2020-2023 「持続的な東南アジア海洋生態系利用のための研究教育プロジェクト」
CREPSUM (Collaborative Research and Education Project in Southeast Asia for Sustainable Use of Marine Ecosystems)、日本学術振興会研究拠点形成事業 (B.アジア・アフリカ学術基盤形成型)、研究代表者
<https://jspscrepsum.wixsite.com/mysite>
- 2019-2020 文部科学省政府開発援助ユネスコ活動費補助金「東南アジア海洋生態系サービスの持続的な利用を目指した研究活動計画の策定」事業 事業責任者
<https://www.ws-seasdg14.com/>
- 2017-2019 東南アジア沿岸生態系の研究教育ネットワーク (RENSEA) 研究代表者 (プロジェクトコーディネーター)、日本学術振興会 Core-to-core program <http://mits10.aori.u-tokyo.ac.jp/lirc/renea/link.html>
- 2012-2017 新海洋像-その機能と持続的生産 (NEOPS)
研究代表者 (A01 海洋生元素地理の高精度観測からの新海洋区系) 科研費新学術領域研究 (文部科学省)
<http://ocean.fs.a.u-tokyo.ac.jp/>

- 2011-2020 我が国の魚類生産を支える黒潮生態系の変動機構の解明 (SKED) 研究代表者 (2011-14)、メンバー (2014-2020) 文部科学省国家基幹研究開発推進事業
<http://tnfri.fra.affrc.go.jp/kaiyo/sked/english/index.html>
- 2007-2012 環境変動に伴う海洋生物大発生の予測・制御技術の開発 (POMAL) 研究代表者 サブプロジェクト「魚種交替の予測・利用技術の開発」(SUPRFISH) 農林水産省農林水産技術会議プロジェクト
<http://tnfri.fra.affrc.go.jp/kaiyo/POMALweb/e-pomal.html>
- 2007 BLOSSOM (Blooming Plankton Succession Study in the Oyashio Marine Ecosystem)、研究代表者
- 2005-2008 従属栄養性渦鞭毛虫による炭素輸送機構の解明、研究代表者
科研費基盤研究 (B) kaken.nii.ac.jp/d/p/17310016/2005/3/ja.ja.html
- 2003 SPINUP (Study for Plankton and Iron Dynamics in the western Subarctic Pacific)
研究代表者
- 2002-2006 海洋生物資源の変動要因の解明と高精度変動予測技術の開発
研究代表者「深層生態系研究」(DEEP) 農林水産省農林水産技術会議プロジェクト http://tnfri.fra.affrc.go.jp/personal/HP/index_j.html
- 2001-2004 北太平洋亜寒帯域鉄散布実験 (SEEDS)
環境省環境研究総合推進費
<http://www.seeds-exp.jp/intro.html#sum>
- 1998-2000 PROVES (陸棚域における鉛直交換過程研究)
ヨーロッパ連合科学プロジェクト MUST III
- 1998-2002 太平洋沖合域における環境変動が漁業資源に及ぼす影響の解明(VENFISH)
農林水産省農林水産技術会議プロジェクト
<http://tnfri.fra.affrc.go.jp/venfish/index-j.html>
- 1997-2002 北太平洋亜寒帯循環と気候変動に関する国際共同研究 (SAGE)
文部科学省科学技術振興調整費総合研究
<http://tnfri.fra.affrc.go.jp/sage/comp/comp.html>
- 1996-1998 紫外線増加が植物プランクトンと動物プランクトンの相互関係に与える影響の評価に関する研究、研究代表者、環境庁地球環境研究総合推進費「紫外線増加が生態系に及ぼす影響に関する研究」
- 1993-1995 紫外線増加が動物プランクトンに及ぼす影響の評価に関する研究 環境庁地球環境研究総合推進費「紫外線の増加が植物等に及ぼす影響に関する研究」
- 1993-1995 基礎生産測定センサの開発研究、研究代表者、科学技術庁研究開発局プロ

プロジェクト「世界海洋観測システム構築に資する革新的ブイシステムの基盤技術開発研究」

1991-1993 SARES(佐呂間－Resolute 研究プロジェクト) 日加共同研究 (文部省・国際学術研究)

1990- *A-line* モニタリング

水産総合研究センター交付金プロジェクトおよび総合科学技術会議温暖化イニシアチブプロジェクト

<http://hnf.fra.affrc.go.jp/a-line/index.html>

1990-1998 バイオコスモス計画 (農林水産技術会議大型別枠研究“農林水産生態系秩序の解明と最適制御に関する総合研究”)

PUBLICATIONS

Refereed Publications:

1. Jiang, S., Hashihama, F., Masumoto, Y., Liu, H., Ogawa, H., Saito, H. Phytoplankton dynamics as a response to physical events in the oligotrophic Eastern Indian Ocean. *Progress in Oceanography* 203, 102784 (2022) <https://doi.org/10.1016/j.pocean.2022.102784>
2. Liu, A. C. H., Chang, F. H., Yang, J. W. Saito, H., Umezawa, Y., Chen, C. C., Jan, S., Hsieh, C. H. Free-living marine bacterioplankton composition and diversity along the Kuroshio region. *Deep-Sea. Research I.* 183. 103741 (2022). <https://doi.org/10.1016/j.dsr.2022.103741>
3. Isaji, Y., Yoshikawa, C., Ogawa, N. , O., Matsumoto, K., Makabe, A., Toyoda, S., Ishikawa, N. F., Ogawa, H., Saito, H., Honda, M. C., Ohkouchi, N. Nitrogen sources for phytoplankton in the eastern Indian Ocean determined from $\delta^{15}\text{N}$ of chlorophyll *a* and divinylchlorophyll *a*. *Geochemistry, Geophysics, Geosystems*, 23, e2021GC010057 (2022). <https://doi.org/10.1029/2021GC010057>
4. Hashihama, F., Yasuda, I., Kumabe, A. Sato, M., Sasaoka, H., Iida, Y., Shiozaki, T., Saito, H., Kanda, J., Furuya, K., Boyd, P., Ishii, M. Nanomolar phosphate supply and its recycling drive net community production in the subtropical North Pacific. *Nat. Commun.* 12, 3462 (2021). <https://doi.org/10.1038/s41467-021-23837-y>

5. Hashihama, F., Saito, H., Kodama, T., Yasui-Tamura, S., Kanda, J., Tanita, I., Ogawa, H., Woodward, E. M. S., Boyd, P. W., and Furuya, K. (2021) Cross-basin differences in the nutrient assimilation characteristics of induced phytoplankton blooms in the subtropical Pacific waters, *Biogeosciences* 18, 897–915, <https://doi.org/10.5194/bg-18-897-2021>
6. Jiang, S., Hashihama, F., Saito, H. (2021) Phytoplankton growth and grazing mortality through the oligotrophic subtropical North Pacific. *Journal of Oceanography* 77, 505-521 <https://doi.org/10.1007/s10872-020-00580-4>
7. Hashihama, F., Saito, H., Shiozaki, T., Ehama, M., Suwa, S., Sugiyama, T., et al. (2020). Biogeochemical controls of particulate phosphorus distribution across the oligotrophic subtropical Pacific Ocean. *Global Biogeochemical Cycles*, 34, e2020GB006669. <https://doi.org/10.1029/2020GB006669>
8. Arifin, Z., and Saito, H. (2019). Bridging coastal research program between Indonesia and Japan. *Marine Research in Indonesia*, 44, 34-41. <https://doi.org/10.14203/mri.v44i1.551>
9. Hashihama, F., Suwa, S., Kanda, J., Ehama, M., Sakuraba, R., Kinouchi, S., Sato, M., Yamaguchi, T., Saito, H., Ogura, Y., Hayashi, T., Mori, H., Kurokawa, K., Suzuki, S., Hamasaki, K. (2019) Arsenate and microbial dynamics in different phosphorus regimes of the subtropical Pacific Ocean. *Progress in Oceanography* 176, 102-115. <https://doi.org/10.1016/j.pocean.2019.05.007>
10. Takagi, H., Kimoto, K., Fujiki, T., Saito, H., Schmidt, C., Kucera, M., Moriya, M. (2019) Characterizing photosymbiosis in modern planktonic foraminifera. *Biogeosciences*, 16, 3377-3396, <https://doi.org/10.5194/bg-16-3377-2019>
11. Michida, Y., et al. (2019). Guidelines for harmonizing ocean surface microplastic monitoring methods. Ministry of the Environment Japan, 71 pp. https://www.env.go.jp/en/water/marine_litter/guidelines/guidelines.pdf
12. Bograd, S. J., Kang, S., Di Lorenzo, E., Horii, T., Katugin, O. N., King, J. R., Lobanov, V. B., Makino, M., Na, G., Perry, R. I., Qiao, F., Rykaczewski, R. R., Saito, H., Therriault, T. W., Yoo, S., Batchelder, H. (2019). Developing a Social–Ecological–Environmental System Framework to Address Climate Change Impacts in the North Pacific. *Front. Mar. Sci.* 6:333. <https://doi.org/10.3389/fmars.2019.00333>
13. Sogawa, S., Hidaka, K., Kamimura, Y., Takahashi, M., Saito, H., Okazaki, Y., Shimizu, Y., Setou, T. (2019) Environmental characteristics of spawning and

nursery grounds of Japanese sardine and mackerels in the Kuroshio and Kuroshio Extension area. *Fish Oceanogr.* 2019; 28: 454– 467.

<https://doi.org/10.1111/fog.12423>

14. Saito, H. (2019) The Kuroshio: its recognition, scientific activities and emerging issues. In *Kuroshio Current* (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-Wiley Geophysical Monograph 243, pp3-11, AGU and John Wiley and Sons, Hoboken, USA. <https://doi.org/10.1002/9781119428428.ch1>
15. Okazaki, Y., Miyaoto, H., Suzuki, K., Saito, H., Hidaka, K., and Ichikawa, T. (2019), Diverse trophic pathways from zooplankton to larval and juvenile fishes in the Kuroshio ecosystem. In *Kuroshio Current* (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-Wiley Geophysical Monograph 243, pp257-272, AGU and John Wiley and Sons, Hoboken, USA. <https://doi.org/10.1002/9781119428428.ch15>
16. Miyamoto, H., Vijai, D., Okazaki, Y., Saito, H. (2019) Feeding ecology of chaetognath *Flaccisagitta enflata* in Kuroshio region, western North Pacific. In *Kuroshio Current* (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-Wiley Geophysical Monograph 243, pp245-256, AGU and John Wiley and Sons, Hoboken, USA. <https://doi.org/10.1002/9781119428428.ch16>
17. Isada, T, Hattori-Saito, A., Saito, H., Kondo, Y., Nishioka, J., Kuma, K., Hattori, H., McKay, R.M.L., Suzuki, K. (2019) Responses of phytoplankton assemblages to iron availability and mixing water masses during the spring bloom in the Oyashio region, NW Pacific. *Limnology and Oceanography*, 64, 194-216 <https://doi.org/10.1002/lno.11031>
18. Shiozaki, T., Bombar, D., Riemann, L., Sato, M., Hashihama, F., Kodama, T., Tanita, I., Takeda, S., Saito, H., Hamasaki, K., Furuya, K. (2018). Linkage between dinitrogen fixation and primary production in the oligotrophic South Pacific Ocean, *Global Biogeochemical Cycles* 32, <https://doi.org/10.1029/2017GB005869>
19. Yamashita, Y., Hashihama, F., Saito, H., Fukuda, H., Ogawa, H. (2017) Factors controlling the geographical distribution of fluorescent dissolved organic matter in the surface waters of the Pacific Ocean. *Limnology and Oceanography* 62, 2360-2374. <https://doi.org/10.1002/lno.10570>
20. Cheung, S., K. Suzuki, H. Saito, Y. Umezawa, X. Xia, and H. Liu (2017) Highly heterogeneous diazotroph communities in the Kuroshio Current and the Tokara

Strait, Japan. PLOS ONE, 12, e0186875,

<https://doi.org/10.1371/journal.pone.0186875>

21. Nishibe, Y., Takahashi, K., Sato, M., Kodama, T., Kakehi, S., Saito, H., Furuya, K. (2017). Phytoplankton community structure, as derived from pigment signatures, in the Kuroshio Extension and adjacent regions in winter and spring. *Journal of Oceanography*, 73, 463-478.
<https://doi.org/10.1007/s10872-017-0415-3>
22. Saito, H. (2016) Plankton Net. In: *Guideline of Ocean Observations Volume 6, Plankton and Benthos*, The Oceanographic Society of Japan, ISBN 978-4-908553-27-1, G601EN:001-009. [https://kaiyo-gakkai.jp/jos/en/guide/download](https://kaiyogakkai.jp/jos/en/guide/download)
23. Ehama, M., Hashihama, F., Kinouchi, S., Kanda, J., Saito, H. (2016) Sensitive determination of total particulate phosphorus and particulate inorganic phosphorus in seawater using liquid waveguide spectrophotometry. *Talanta* 153, 66-70. doi:10.1016/j.talanta.2016.02.058
24. Sogawa, S., Sugisaki, H., Saito, H., Okazaki, Y., Ono, T., Shimode, S., Kikuchi, T. (2016) Seasonal and regional change in vertical distribution and diel vertical migration of four euphausiid species (*Euphausia pacifica*, *Thysanoessa inspinata*, *T. longipes*, and *Tessarabrachion oculatum*) in the northwestern Pacific. *Deep Sea Research Part I: Oceanographic Research Papers* 109, 1-9.
25. Blasiak, R, Pacheco, E., Furuya, K., Golden, C. D., Jauharee, A. R., Natori, Y., Saito, H., Sinan, H., Tanaka, T., Yagi, N., Yiu, E. 2016. Local and regional experiences with assessing and fostering ocean health. *Marine Policy* 71, 54-59.
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