

## Taku SATO

### Research Papers

- 1) Satoshi Wada, Masakazu Ashidate, Kenji Yoshino, **Taku Sato**, and Seiji Goshima. (2000) Effects of sex ratio on egg extrusion frequency and mating behavior of the spiny king crab *Paralithodes brevipes* (Decapoda: Lithodidae). *Journal of Crustacean Biology*, 20: 479-482.
- 2) **Taku Sato**, Masakazu Ashidate, and Seiji Goshima. (2004) A new method to extract sperm from spermatophores of the male spiny king crab *Paralithodes brevipes* (Anomura: Lithodidae). *Crustacean Research*, 33: 10-14.
- 3) **Taku Sato**, Masakazu Ashidate, and Seiji Goshima. (2005) Negative effects of delayed mating on the reproductive success of female spiny king crab, *Paralithodes brevipes*. *Journal of Crustacean Biology*, 25: 105-109.
- 4) **Taku Sato**, Masakazu Ashidate, Satoshi Wada, and Seiji Goshima. (2005) Effects of male mating frequency and male size on ejaculate size and reproductive success of female spiny king crab, *Paralithodes brevipes*. *Marine Ecology Progress Series*, 296: 251-262.
- 5) **Taku Sato**, Masakazu Ashidate, Tadao Jinbo, and Seiji Goshima. (2006) Variation of sperm allocation with male size and recovery rate of sperm numbers in spiny king crab *Paralithodes brevipes*. *Marine Ecology Progress Series*, 312: 189-199.
- 6) **Taku Sato** and Seiji Goshima. (2006) Impacts of male-only fishing and sperm limitation in manipulated populations of an unfished crab, *Hapalogaster dentata*. *Marine Ecology Progress Series*, 313: 193-204.
- 7) **Taku Sato** and Seiji Goshima. (2007) Female choice in response to risk of sperm

limitation by the stone crab *Hapalogaster dentata*. *Animal Behaviour*, 73: 331-338.

- 8) **Taku Sato** and Seiji Goshima. (2007) Sperm allocation in response to temporal gradient of female reproductive quality in the stone crab *Hapalogaster dentata*. *Animal Behaviour*, 74, 903-910.
- 9) **Taku Sato**, Masakazu Ashidate, Tadao Jinbo, and Seiji Goshima. (2007) Does male-only fishing influence reproductive success of female spiny king crab, *Paralithodes brevipes*? *Canadian Journal of Fisheries and Aquatic Sciences*, 64: 735-742.
- 10) **Taku Sato** and Seiji Goshima. (2007) Effects of risk of sperm competition, female size, and male size on number of ejaculated sperm in stone crab *Hapalogaster dentata*. *Journal of Crustacean Biology*, 27: 570-575.
- 11) **Taku Sato**, Kenzo Yosedo, Osamu Abe, and Takuro Shibuno. (2008) Male maturity, number of sperm and spermatophore size relationships with male size in coconut crab *Birgus latro* in Hatoma Island, southern part of Japan. *Journal of Crustacean Biology*, 28, 663-668.
- 12) **Taku Sato** and Kenzo Yosedo. (2008) Reproductive season and female maturity size of coconut crab *Birgus latro* in Hatoma Island, southern part of Japan. *Fisheries Science*, 74, 1277-1282.
- 13) **Taku Sato** and Kenzo Yosedo. (2009) Egg extrusion site of coconut crab *Birgus latro*: direct observation of terrestrial egg extrusion. *Marine Biodiversity Records*, 2: e37.
- 14) **Taku Sato** and Kenzo Yosedo. (2009) Prediction of timing of mating and egg extrusion in the coconut crab *Birgus latro* judged from female pleonal expansion.

*Fisheries Science*, 75: 641-648.

- 15) 山本 和久, 浅見 公雄, 奥澤 公一, 小林 真人, 佐藤 琢, 武部 孝行, 與世 田 兼三. (2009) メガネモチノウオの成長と成熟. *栽培漁業センター技報*, 9: 5-10.
- 16) Hideaki Yamada, Masayuki Chimura, Kimio Asami, Taku Sato, and Masato Kobayashi. (2009) Otolith development and daily increment formation in laboratory-reared larval and juvenile black-spot tuskfish *Choerodon schoenleinii*. *Fisheries Science*, 75: 1141-1146.
- 17) Taku Sato and Kenzo Yoseda. (2010) Influence of size- and sex-biased harvesting on reproduction of the coconut crab *Birgus latro*. *Marine Ecology Progress Series*, 402: 171-178.
- 18) Taku Sato, Kenzo Yoseda, Koichi Okuzawa, and Nobuaki Suzuki. (2010) Sperm limitation: Possible impacts of large male-selective harvesting on reproduction of the coconut crab *Birgus latro*. *Aquatic Biology*, 10: 23-32.
- 19) Taku Sato and Nobuaki Suzuki. (2010) Female size as a determinant of larval size, weight, and survival period in the coconut crab, *Birgus latro*. *Journal of Crustacean Biology*, 30: 624-628.
- 20) Yuuki Kawabata, Kimio Asami, Taku Sato, Makoto Kobayashi, Koichi Okuzawa, Hideaki Yamada, Kenzo Yoseda, and Nobuaki Arai. (2011) Effect of shelter acclimation on the post-release survival of hatchery-reared black-spot tuskfish *Choerodon schoenleinii*: laboratory experiments using the reef-resident predator white-streaked grouper *Epinephelus ongus*. *Fisheries Science*, 77: 79-85.
- 21) Noriko Azuma, Yuta Seki, Akiyoshi Kikkawa, Tomoyuki Nakagawa, Yoko Iwata, Taku Sato, Hiroyuki Munehara, and Susumu Chiba. (2011) Isolation and

characterization of 13 polymorphic microsatellites for the Hokkai Shrimp, *Pandalus latirostris*. *Conservation Genetics Resources*, 3: 529-531.

- 22) 河端 雄毅, 山田 秀秋, 佐藤 琢, 小林 真人, 平井 慈恵, 照屋 和久, 荒井 修亮. (2011) シロクラベラ人工種苗の被食回避における捕食者学習効果. *日本水産学会誌*, 77: 625-629.
- 23) 武部 孝行, 小林 真人, 浅見 公雄, 佐藤 琢, 平井 慈恵, 奥澤 公一, 阪倉 良孝. (2011) スジアラ仔魚の沈降死とその防除方法を取り入れた種苗量産試験. *水産技術*, 3: 107-114.
- 24) Taku Sato. (2011) Plausible causes for sperm-store variations in the coconut crab *Birgus latro* under large male-selective harvesting. *Aquatic Biology*, 13:11-19.
- 25) Yuuki Kawabata, Kimio Asami, Taku Sato, Makoto Kobayashi, Koichi Okuzawa, Hideaki Yamada, Kenzo Yoseda, Nobuaki Arai. (2011) Effect of shelter acclimation on the post-release movement and predation mortality of hatchery-reared black-spot tuskfish *Choerodon schoenleinii*, determined by acoustic telemetry. *Fisheries Science*, 77: 345-355.
- 26) 平井 慈恵, 小磯 雅彦, 照屋 和久, 奥澤 公一, 小林 真人, 武部 孝行, 佐藤 琢, 中村 航, 後藤 敬行, 萩原篤志. (2011) メガネモチノウオ仔魚の飼育条件と微小餌料生物プロアレス *Proales similis* の餌料価値の検討. *水産技術*, 4: 57-64.
- 27) Hideaki Yamada, Atsushi Nanami, Itaru Ohta, Kouki Fukuoka, Taku Sato, Masato Kobayashi, Narisato Hirai, Masayuki Chimura, Yuichi Akita, Yuuki Kawabata. (2012) Occurrence and distribution during the post-settlement stage of two *Choerodon* species in shallow waters around Ishigaki Island, southern Japan. *Fisheries Science*, 78: 809-818.

- 28) **佐藤 琢**, 河端 雄毅, 奥澤 公一, 浅見 公雄, 小林 真人, 山田 秀秋, 福岡 弘紀, 與世田 兼三, 武部 孝行, 平井 慈恵, 秋田 雄一, 名波 敦, 太田 格, 鈴木 伸明, 千村 昌之, 青沼 佳方, 加藤 雅也, 澁野 拓郎, 照屋 和久.  
(2012) 亜熱帯海域における資源造成:シロクラベラにおける種苗放流技術の開発. *水産総合研究センター研究報告*, 印刷中

### Book, Book Chapters and Review Articles

- 1) **佐藤 琢**. (2005) ハナサキガニの繁殖生態と資源管理. ベントスと漁業(日本水産学会編), 恒星社厚生閣, *水産学シリーズ*, 144: 126-136.
- 2) **佐藤 琢**, 芦立 昌一, 五嶋 聖治. (2005) 精子の有限性を考慮した資源管理のススメ. *月刊養殖*, 531: 82-83.
- 3) 芦立 昌一, **佐藤 琢**. (2009) 「ハナサキガニの種苗生産技術—親ガニの養成、種苗生産、中間育成および放流手法の開発—」. *栽培漁業技術シリーズ*, 14.
- 4) **佐藤 琢**. (2008) 雄選択的漁獲が大型甲殻類資源に与える影響. *日本水産学会誌*, 74: 584-587.
- 5) 與世田 兼三, **佐藤 琢**. (2009) 「ヤシガニの産卵場所は陸上だった!」. *自然保護*, 508: 27
- 6) **佐藤 琢**. (2010) 配偶相手の時間的变化を見込んだ賢明なオスの精子配分戦略. *生物科学*, 61: 76-84, 2010
- 7) **佐藤 琢**. (2011) ヤシガニ. *野鳥*, 76: 37
- 8) **佐藤 琢**. (2011) ヤシガニの資源管理:繁殖生態からのアプローチ. *CANCER*, 20: 87-92

## Ph.D. Dissertation

- 1) オス選択的な漁獲が個体群に与える影響とそのメカニズム：ハナサキガニにおける個体群構造の改変と精子制限。  
2005年3月. 北海道大学大学院水産科学研究科. 博士(水産科学).

## Patent

- 1) 佐藤 琢, 長谷川 伸弘 (2007) ウニ類の移動阻止方法及びその装置(特許第4026159号)

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