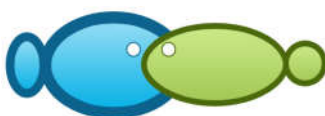


AACL Bioflux, Volume 13(3)

June 30, 2020



Contents

Sentosa A. A., Chodrijah U., 2020 Length-weight relationship and growth parameter of Indonesian houndshark (*Hemitriakis indroyonoi* White, Compagno & Dharmadi, 2009) caught from artisanal fisheries in Southern West Nusa Tenggara Waters. AAAL Bioflux 13(3):1211-1220.

Nofrizal, Ramdhani F., Oktavia Y., Ramses, Kurniawan R., Arimoto T., 2020 Swimming speed and heart rate of Japanese jack mackerel (*Trachurus japonicus* Temminck & Schlegel, 1844), through electrocardiograph (ECG) monitoring in step-up swimming exercise. AAAL Bioflux 13(3):1221-1228.

Sulistiyarto B., Susila N., 2020 Techniques for bloodworm (Chironomid larvae: Diptera) mass culture in tarpaulin tanks. AAAL Bioflux 13(3):1229-1234.

Pratama A. F., Masithah E. D., Lokapirnasari W. P., 2020 Enrichment of nutrition of *Brachionus spp.* in the tropical areas. AAAL Bioflux 13(3):1235-1241.

Mulyasari G., Irham, Waluyati L. R., Suryantini A., 2020 Livelihood vulnerability to climate change of fishermen in the coastal area of Bengkulu Province, Indonesia. AAAL Bioflux 13(3):1242-1254.

Imron I., Marnis H., Iswanto B., Suprpto R., 2020 Development of a PCR marker for the identification of resistance to Motile Aeromonad Septicemia disease in African catfish (*Clarias gariepinus*). AAAL Bioflux 13(3):1255-1267.

Bouzaidi H., Haroufi O., Khaili A., El Fanichi C., Maatouk M., El-Moumni B., Daoudi M., 2020 Stock assessment and spatial distribution of the smooth clam *Callista chione* (Linnaeus, 1758) exploited in the occidental Mediterranean Sea of Morocco. AAAL Bioflux 13(3):1268-1284.

Karnila R., Dewita, Ilham D., Sidauruk S. W., 2020 Utilization of papain enzymes in the production of protein hydrolysates of yellow pike conger (*Congresox talabon*). AAAL Bioflux 13(3):1285-1291.

Suparmi, Effendi I., Nursyirwani, Dewita, Sidauruk S. W., Windarti, 2020 The potential of hydrolyzed, concentrated, and isolated protein from *Acetes erythraeus* as natural antioxidant. AAAL Bioflux 13(3):1292-1299.

Widiastuti, Faiqoh E., 2020 Abundance assessment of indicator bacteria for coral health in the Pemuteran Waters, North Bali, Indonesia. *AACL Bioflux* 13(3):1300-1307.

Pane A. R. P., Alnanda R., Prihatingsih., Hasanah A., Suman A., 2020 Biological aspect and exploitation status of striped threadfin fish (*Polydactylus plebeius* Broussonet, 1782) in Merauke waters and its surrounding, Papua Province, Indonesia. *AACL Bioflux* 13(3):1308-1319.

Srithongthum S., Au H. L., Amornsakun T., Chesoh S., Jantararat S., Suzuki N., Takeuchi Y., Hassan A., Kawamura G., Lim L. S., 2020 Yolk-sac absorption, mouth size development, and first exogenous feeding of Sultan fish, *Leptobarbus hoevenii*. *AACL Bioflux* 13(3):1320-1327.

Ghufron M., Rahardja B. S., Sari L. A., 2020 The temporal variation of ammonia and nitrite content in extensive ponds with tilapia. *AACL Bioflux* 13(3):1328-1335.

Maryani, Ratnasari I., Alhidayat S. A., Handayani T., Nursiah, Tanduh Y., 2020 Immunostimulant activities of yellow root (*Arcangelisia flava* Merr.) extract on *Edwardsiella tarda* infection. *AACL Bioflux* 13(3):1336-1344.

Fahmy A. F., El-Ghazaly N. A., Sayed A., Areef K., 2020 Impact of purifying aquatic environment on *Tilapia zillii* production quality, caught from Lake Mariout, Egypt. Challenges and solutions! *AACL Bioflux* 13(3):1345-1354.

Purnama M. F., Sari S. F., Admaja A. K., Salwiyah, Abdullah, Haslianti, 2020 Spatial distribution of invasive alien species *Tarebia granifera* in Southeast Sulawesi, Indonesia. *AACL Bioflux* 13(3):1355-1365.

Varga D., Hancz C., Szabo A., 2020 Selective mobilization of fatty acids in common carp (*Cyprinus carpio*) during long-term starvation. *AACL Bioflux* 13(3):1366-1373.

Dewi P., Hutajulu J., Nugraha E., Yusrizal, Sumbung S., Johari, Leilani A., 2020 Financial analysis of purse seine fisheries in Natuna waters, Indonesia. *AACL Bioflux* 13(3):1374-1382.

Hidayat A. S., Agusliani E., 2020 Beach tourism, whether benefit or disaster for coastal fishermen of Tanah Laut Regency, South Kalimantan Province. *AACL Bioflux* 13(3):1383-1393.

Razali F. N., Ismail N., Faisal A., Tuan Zainazor T. C., Mohamad F., Shamsuddin A., 2020 Updating a new trend of horseshoe crab feeding behavior in captivity: towards a healthy practice of horseshoe crabs rearing. *AACL Bioflux* 13(3):1394-1409.

Firdaus M., Salim G., Cahyadi J., Weliyadi E., Bintoro G., 2020 Model and nature of growth of red snapper fish (*Lutjanus argentimaculatus* (Forsskal, 1775)) fishing catch of bottom fish pots in Bunyu waters, North Kalimantan. *AACL Bioflux* 13(3):1410-1421.

Cahyaningtyas I., Utama K. W., Sukmadewi Y., 2020 Judicial bureaucratic reform in the Indonesian Fisheries Court. *AACL Bioflux* 13(3):1422-1427.

Hidayat T., Boer M., Kamal M. M., Zairion, Suman A., Mardlijah S., 2020 Population dynamics of longtail tuna (*Thunnus tonggol*) in the Java Sea and adjacent waters. *AACL Bioflux* 13(3):1428-1436.

Prabandari A. P., Hananto P. W. H., Lestari S. N., Roisah K., 2020 The legal protection of intellectual property rights toward the maritime scientific researches in Indonesian seas. *AACL Bioflux* 13(3):1437-1444.

- Yusrizal, Nugraha E., Syamsuddin S., Danapraja S., Jaenudin A., Basino, Aulia M. R., Endo S., Purwanto Y., 2020 Composition of target species, bycatch, hook rate and fluctuation for longline tuna fishing in the Eastern Indian Ocean, Indonesia. *AACL Bioflux* 13(3):1445-1452.
- Hapsari R. W., Hartoko A., Hendrarto B., 2020 Mangrove vulnerability index and carbon algorithm using Sentinel-2A satellite data at Kemujan Island, Karimunjawa Islands, Indonesia. *AACL Bioflux* 13(3):1453-1462.
- Ridwan F. F., Triastuti J., Mukti A. T., 2020 The effect of mercury chloride in different salinities on the histopathology of juvenile *Oreochromis niloticus*. *AACL Bioflux* 13(3):1463-1472.
- Taufiq-Spj N., Hutabarat J., Trianto A., Wirasatria A., Indarjo A., Suryono S., Ario R., Pratikto I., 2020 The use of different water volume to measure the growth and survival rates of *Anguilla bicolor* caught from Nusawungu riverines, Cilacap, Indonesia. *AACL Bioflux* 13(3):1473-1482.
- Soemarmi A., Indarti E., Pujiyono, Wardhani L. T. A. L., Diamantina A., Ristyawati A., 2020 The use of the vessel monitoring system as fishery ship obligations in Indonesia. *AACL Bioflux* 13(3):1483-1494.
- Santos D. A., Manlicic A. D. C., Corpuz M. N. C., 2020 Length-weight relationship and condition factor of silver therapon, *Leiopotherapon plumbeus* (Terapontidae) from two brackishwater habitats. *AACL Bioflux* 13(3):1495-1503.
- Yulinda E., Saad M., Yusuf M., 2020 A study on the economic potential of blood cockles (*Anadara granosa*) in Rokan Hilir, Riau Province, Indonesia. *AACL Bioflux* 13(3):1504-1510.
- Erzad A. F., Hartoko A., Muskananfolo M. R., 2020 Seagrass ecosystem as fish larvae habitat and its biomass algorithm from Sentinel-2A Satellite at Kemujan Island, Karimunjawa, Indonesia. *AACL Bioflux* 13(3):1511-1521.
- Pattiasina T. F., Sartimbul A., Herawati E. Y., Semedi B., Mulyadi, Krey M., Simatauw F. F., 2020 Assessing functional diversity and biomass of herbivorous fish as resilience indicators of coral reef ecosystems in Doreri Bay, Manokwari Regency, Indonesia. *AACL Bioflux* 13(3):1522-1534.
- Krisnafi Y., Wibowo B., Alamsah S., Sembiring K., Sudinno D., Rahman A., Alfari L., Astiyani W. P., 2020 General overview on financial aspects of lift net fisheries operation in Pangandaran, West Java, Indonesia. *AACL Bioflux* 13(3):1535-1545.
- Mulyadi, Tang U. M., Amin B., Sukendi, Pamukas N. A., Windarti, 2020 Osmotic performance rate, stress response, and growth performance of silver pompano (*Trachinotus blochii*) reared in different salinities using recirculating culture system. *AACL Bioflux* 13(3):1546-1556.
- Izzabaha O., Gjjje A., Dergoun A., Saad Z., Ait Chattou E. M., Chairi H., Idhalla M., 2020 First trial on rearing European sea bass *Dicentrarchus labrax* in floating cages in Dakhla bay- SW Morocco, Atlantic Ocean. *AACL Bioflux* 13(3):1557-1569.
- Oedjoe M. D. R., Rebhung F., Sunadji, 2020 The impact of the transportation of dry systems on the growth and carrageenan content of seaweed (*Kappaphycus alvarezii*) in Batu Bao water, Kupang District, East Nusa Tenggara, Indonesia. *AACL Bioflux* 13(3):1570-1575.

Hanifah A., Suharyanto, Baskoro M. S., 2020 Season pattern of pole and line skipjack tuna (*Katsuwonus pelamis*) catching in Kupang, Indonesia. AACL Bioflux 13(3):1576-1584.

Feliatra F., Nursyirwani N., Zirna A. P., Lukistiyowati I., Mulyadi A., Adelina A., 2020 Antibacterial potential of heterotrophic bacteria isolated in Siak River estuary, Indonesia, against pathogens in fish. AACL Bioflux 13(3):1585-1594.

Chowdhury G., Hossain M. S., Dey T., Akhtar S., Jinia M. A., Das B., Islam M. J., Iqbal M. M., 2020 Effects of dietary probiotics on the growth, blood chemistry and stress response of Pabda catfish (*Ompok pabda*) juveniles. AACL Bioflux 13(3):1595-1605.

Bambang A. N., Wijayanto D., 2020 The perception and aspirations of purse seine fishermen toward the prohibition of 'cantrang' (Danish seine) in Bajomulyo, Pati Regency-Indonesia. AACL Bioflux 13(3):1606-1613.

Pangemanan N. P. L., Kepel R. C., Bataragoa N. E., Tumbol R. A., Sahami F. M., 2020 Morphological and molecular identification of nike fish, *Ophieleotris aporos* in Tondano Lake, North Sulawesi, Indonesia. AACL Bioflux 13(3):1614-1621.

Helmiati S., Rustadi, Isnansetyo A., Zuprizal, 2020 Replacement of fish meal with fermented Moringa leaves meal and its effect on the growth performance of red tilapia (*Oreochromis sp.*). AACL Bioflux 13(3):1622-1632.

Chaw V. V., Wong A. B. H., Fikri A. H., 2020 Diversity of aquatic macroinvertebrate assemblages and their functional feeding groups in the streams of Kota Marudu, Sabah. AACL Bioflux 13(3):1633-1649.

Parakkasi P., Syamsuddin R., Najamuddin, Haris A., Rani C., 2020 Shading effect of seaweed farming on the growth and health of the corals *Porites cylindrica* and *Acropora formosa*. AACL Bioflux 13(3):1650-1664.

Tilaar F., Kreckhoff R. L., Wagey B. T., Bucol L. A., 2020 Ecology, diversity and biomass of seagrass species in Manado Tua Island, North Sulawesi, Indonesia. AACL Bioflux 13(3):1665-1673.

Cahyadi J., Satriani G. I., Gusman E., Weliyadi E., 2020 Inhibiting *Vibrio harveyi* infection in *Penaeus monodon* using enriched *Artemia salina* with mangrove fruit *Sonneratia alba* extract. AACL Bioflux 13(3):1674-1681.

Sutarjo G. A., Refki M., Zubaidah A., Handajani H., Andriawan S., 2020 Recombinant growth hormone supplemented on feed to the growth performance of *Barbodes binotatus*. AACL Bioflux 13(3):1682-1688.

Nurdin J., Irawan D., Syandri H., Nofrita, Rizaldi, 2020 Phytoplankton and the correlation to primary productivity, chlorophyll-a, and nutrients in Lake Maninjau, West Sumatra, Indonesia. AACL Bioflux 13(3):1689-1702.

Arifin T., Daulat A., Ramdhan M., Rahmania R., Yulius, Setyawidati N. A., Gusmawati N., Kusuma L. P. A. C., 2020 The use of high resolution satellite imagery to identify coral reef cover and its correlation with the abundance of reef fish in Nias Island, North Sumatera, Indonesia. AACL Bioflux 13(3):1703-1714.

Sulardiono B., Anggoro S., Yuniati R., 2020 Exploration of the potential of *Holothuria atra* bioactive compounds based on their habitat characteristics. AACL Bioflux 13(3):1715-1722.

Manginsela F. B., Rompas R. M., Mamuaya G. E., Lumingas L. J. L., 2020 Otolith size and shape index of mackerel scad *Decapterus macarellus* (Cuvier, 1833) from Manado Bay and Kema Bay, North Sulawesi, Indonesia. *AACL Bioflux* 13(3):1723-1734.

Khatimah K., Yasir I., Tresnati J., Niartiningsih A., Yaqin K., Aprianto R., Tuwo A., 2020 Preliminary study on the potential of *Sargassum macroalgae* as lead (Pb) biosorbent agents. *AACL Bioflux* 13(3):1735-1745.

Mulyani S., Tuwo A., Syamsuddin R., Jompa J., Cahyono I., 2020 Effect of *Kappaphycus alvarezii* mariculture on the recruitment of scleractinian corals. *AACL Bioflux* 13(3):1746-1757.

Lumbanraja A. D., Musyafah A. A., Saraswati R., Indreswari T. L., 2020 The effect of GPA IGR-4 on Indonesian government policy on marine litter. *AACL Bioflux* 13(3):1758-1763.

Elfidasari D., Ismi L. N., Sugoro I., 2020 Heavy metal concentration in water, sediment, and *Pterygoplichthys pardalis* in the Ciliwung River, Indonesia. *AACL Bioflux* 13(3):1764-1778.

**International Standard Serial Number
Online ISSN 1844–9166; Print ISSN 1844-8143**

Published by Bioflux – six issues/year (bimonthly); in cooperation with The Natural Sciences Museum Complex (Constanta, Romania)

The journal includes original papers, short communications, and reviews on Aquaculture (Biology, Technology, Economics, Marketing), Fish Genetics and Improvement, Aquarium Sciences, Fisheries, Ichthyology, Aquatic Ecology, Conservation of Aquatic Resources and Legislation (in connection with aquatic issues) from wide world.

Editor-in-Chief

Petrescu-Mag I. Valentin: USAMV Cluj, Cluj-Napoca, University of Oradea (Romania)
Gavriloaie Ionel-Claudiu (alternate): SC Bioflux SRL, Cluj-Napoca (Romania).

Editors

Abdel-Rahim Mohamed M.: National Institute of Oceanography and Fisheries, Alexandria (Egypt)
Adascalitei Oana: Maritime University of Constanta, Constanta (Romania)
Amira Aicha Beya: Badji Mokhtar Annaba University, Annaba (Algeria)
Arockiaraj A. Jesu: SRM University, Chennai (India)
Appelbaum Samuel: Ben-Gurion University of the Negev (Israel)
Baharuddin Nursalwa: Universiti Malaysia Terengganu, Terengganu (Malaysia)
Boaru Anca: USAMV Cluj, Cluj-Napoca (Romania)
Botha Miklos: Bioflux SRL, Cluj-Napoca (Romania)
Breden Felix: Simon Fraser University (Canada)
Burny Philippe: Universite de Liege, Gembloux (Belgium)
Caipang Cristopher M.A.: Temasek Polytechnic (Singapore)
Chapman Frank: University of Florida, Gainesville (USA)
Coroian Cristian: USAMV Cluj, Cluj-Napoca (Romania)
Creanga Steofil: USAMV Iasi, Iasi (Romania)
Cristea Victor: Dunarea de Jos University of Galati, Galati (Romania)
Das Simon Kumar: Universiti Kebangsaan Malaysia, Bangi, Selangor (Malaysia)
Dimaggio Matthew A.: University of Florida (USA)
Firica Cristian Manuel: Spiru Haret University Bucharest, Craiova (Romania)
Georgescu Bogdan: USAMV Cluj, Cluj-Napoca (Romania)
Karayucel Ismihan: University of Sinop, Sinop (Turkey)
Khamesipour Faham: Shiraz University, Shiraz (Iran)
Kosco Jan: Presov University, Presov (Slovakia)
Kovacs Eniko: USAMV Cluj, Cluj-Napoca (Romania)
Mehrad Bahar: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)
Miclaus Viorel: USAMV Cluj, Cluj-Napoca (Romania)
Mihociu Tamara: R&D National Institute for Food Bioresources (Romania)
Molnar Kalman: Hungarian Academy of Sciences, Budapest (Hungary)
Muchlisin Zainal Abidin: Universiti Sains (Malaysia), Syiah Kuala University (Indonesia)
Muntean George Catalin: USAMV Cluj, Cluj-Napoca (Romania)
Nowak Michal: University of Agriculture in Krakow (Poland)
Nyanti Lee: Universiti Malaysia Sarawak, Sarawak (Malaysia)
Olivotto Ike: Universita Politecnica delle Marche, Ancona (Italy)
Oroian Firuta Camelia: USAMV Cluj, Cluj-Napoca (Romania)
Papuc Tudor: USAMV Cluj, Cluj-Napoca (Romania)
Parvulescu Lucian: West University of Timisoara (Romania)
Pasarin Benone: USAMV Iasi, Iasi (Romania)
Pattikawa Jesaja Ajub: Pattimura University, Ambon (Indonesia)
Petrescu Dacinia Crina: Babes-Bolyai University, Cluj-Napoca (Romania)
Petrescu-Mag Ruxandra Malina: Babes-Bolyai University, Cluj-Napoca (Romania)
Petrovici Milca: West University of Timisoara (Romania)
Pratasik Silvester Benny: Sam Ratulangi University, Manado (Indonesia)
Proorocu Marian: USAMV Cluj, Cluj-Napoca (Romania)
Ray Sunuram: Khulna University (Bangladesh)
Rhyne Andrew: Roger Williams University; New England Aquarium, Boston (USA)
Ruchin Alexander B.: Joint Directorate of the Mordovia State Nature Reserve and National Park «Smolny», Saransk (Russia)
Safirescu Calin: USAMV Cluj, Cluj-Napoca (Romania)
Serrano Jr. Augusto E.: University of the Philippines Visayas (Philippines)
Sima Nicusor Flaviu: USAMV Cluj, Cluj-Napoca (Romania)
Tlusty Michael F.: New England Aquarium, Boston (USA)
Vesa Stefan Cristian: Iuliu Hatieganu UMF, Cluj-Napoca (Romania)
Vintila Iuliana: Dunarea de Jos University of Galati, Galati (Romania)
Wariaghli Fatima: University Mohammed V in Rabat, Rabat (Morocco)
Yusli Wardiatno: Bogor Agricultural University, Bogor (Indonesia).

Contact Publisher

SC Bioflux SRL, 54 Ceahlău Street, Cluj-Napoca, 400488, Romania, European Union.

Ioan Valentin Petrescu-Mag, e-mail: zoobiomag2004@yahoo.com

Note that there is also an electronic version of the journal. You may download the fulltext version of AACL Bioflux – Volume 13/2020 from <http://www.bioflux.com.ro/aac/> – open access.

All articles included in AACL Bioflux are peer reviewed (double blind peer-review is used). Each published article was seen before by two reviewers; the two peer-reviews are made independently.

AACL Bioflux has a publishing agreement, or is indexed, abstracted or full text reproduced by/in the following scholar/scientific databases, search engines, libraries, publishers:

ISI Web of Science – via CABI and Zoological Record

Zoological Record (direct submission/coverage)

Scopus - Elsevier; Sciverse

Scimago - Journal Rank

CAB International - CAB Abstracts

ProQuest

China Educational Publications Import & Export Corporation - SOCOLAR

Ulrich's Periodicals Directory

CAB Direct (as part of CABI)

Wolters Kluwer - Ovid LinkSolver

Polish Ministry of Science and Higher Education – 2.00 pts/article

The National Science Digital Library - NSDL

The University of Hong Kong Libraries – HKUL Database

Deutsche Nationalbibliothek - ZDB Database

State Library of Ohio - OhioLINK Database

Smithsonian Institution Libraries

Biblioteka Główna Uniwersytetu Medycznego w Poznaniu

Google Scholar, Academic

Athabasca University - ICAAP Database

University of Southampton - ROAR

Georgetown University Library - NewJour

Universita degli Studi di Modena e Reggio Emilia – SBA, Risorse Elettroniche

Simon Fraser University - PKP

University of Tsukuba - Tulips Database

Teikyo Scientific University- NTU Database

LIS Links: Link Library of Open Access English Language Journals

Fayetteville State University - Charles W. Chesnutt Library

Vrije Universiteit Brussel - VUB e-journal list

Russian CJDB

Universitat Giessen - Digitale Bibliothek

Pace University Library

Tel Aviv University. Gitter-Smolarz Library of Life Sciences and Medicine

MALMAD – Israel Center for Digital Information Services

California State University – Monterey Bay Library

Réseau des Bibliothèques de l'Université Joseph Fourier et de l'Institut National Polytechnique de Grenoble

University of Saskatchewan – University Library (Electronic Journals)

YanXue Resource – YXRES

Feng Chia University – Electronic Library

Main Library of the University of Agriculture in Krakow

SUMMON Database

uOttawa Library

Universita di Roma Tor Vergata - Digital Library

UTC Lupton Library

University of Notre Dame - Hesburgh Libraries

Guilford College - Hege Library

Eastern Michigan University Library - Periodicals locator

Universiteitsbibliotheek Gent - Tijdschriften

Chung Yuan Christian University Library

ArgosBiotech

Ecole Polytechnique Federale de Lausanne - Library

Rowan University – Library Services

James Cook University Library – Australia

Ministerstwo Nauki i Szkolnictwa Wyższego Warszawa

Kun Shan University Library

CCG-IBT Biblioteca

Reference Zone – Nigeria

Dayang Journal System

Riley-Hickingbotham Library

Politechnika Wroclawska

Universite Paris Diderot – Revues Electroniques

ERSA – Chinese Library.



THOMSON REUTERS



Our collaborators



SciVerse Scopus is the world's largest abstract and citation database of peer-reviewed literature and quality web sources. Contains 41 million records, 70% with abstracts; Nearly 18,000 titles from 5,000 publishers worldwide; 70% of content is pulled from international sources; Includes over 3 million conference papers; Provides 100% Medline coverage; Offers sophisticated tools to track, analyze and visualize research.

Socolar

The free scholastic search engine is established by China Educational Publications Import and Export Corporation (CEPIEC). Under the leadership of China Ministry of Education, CEPIEC is the only company dealing with publication ex-im business in the education field. CEPIEC has been serving colleges and universities, research institutions and public libraries in China for more than 20 years, providing them with excellent academic resources from all over the world. Contact: No 41 Zhong Guan Cun Street, Haidian District, Beijing, P.R.China 100080. Tel: +86 (0)10 6251 4068; e-mail: li_yanxia@cepiec.com.cn Fax: +86 (0)10 6251 4068 www.cepiec.com.cn



CABI is a not-for-profit international organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Their mission and direction is influenced by their member countries who help guide the activities they undertake. These include scientific publishing, development projects and research, and microbial services. 2010 marked 100 years of CABI. Since its beginnings as an entomological committee in 1910, it then developed into a Commonwealth organization before becoming a truly international service in agricultural information, pest identification and biological control in the mid 1980s.

Zoological Record (part of Biosis)

ION contains the organism names related data gathered from the scientific literature for Thomson Reuters' *Zoological Record*[®] database. Viruses, bacteria and plant names will be added from other Thomson Reuters databases such as *BIOSIS Previews*[®] and *Biological Abstracts*[®]



THOMSON REUTERS

Index to Organism Names (ION)



ELSEVIER PRODUCTS

Elsevier B.V., Bibliographic Databases, Radarweg 29, 1043 NX Amsterdam, The Netherlands.

