



Bambang Irawan

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Personal Information

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Employment

1982 – Present **Permanent Lecturer Staff**
Faculty Of Science And Technology, UNAIR

1988 **Lecture**
Faculty Of Science And Technology, UNAIR

2001 **Assistant Professor**
Faculty Of Science And Technology, UNAIR

2002 **Associate Professor**
Faculty Of Science And Technology, UNAIR

2013 **Professor**
Faculty Of Science And Technology, UNAIR

Education

1974 - 1981 **Bachelor of Science (S.Si)**
Universitas Gadjah Mada - Yogyakarta
Major in Biology

1989 – 1991 **Master of Science (M.Sc)**
Ehime University - Japan
Major in Biology

1991 – 1994 **Doctoral (Dr.)**
Tohoku University – Japan
Major in Biology

Public Service Experience

2016 Training of analysis kinship by using cladistic methods for senior high school (SMA) teacher in Surabaya.

Organization

2009 – Present Indonesian Biology Association

Research Interest

- Population Biology
- Carcinology

Research Experience

No.	Years	Title
1	2016	Sintesis Dan Purifikasi Rekombinan Protein Kapsid Sugarcane Mosaic Virus Untuk Produksi Antibodi Poliklonal Sebagai Alternatif Deteksi Cepat Penyakit Mosaik Pada Tebu
2	2016	Adaptasi Ikan Nila terhadap Perubahan Salinitas dan Kadar Timbal (Pb): Dampak terhadap Respon Hematologis, Immunologis, Regulasi Ionik dan Osmotik
3	2016	Pengolahan Limbah Sludge Industri
4	2011	Analisis Kladistik Kepiting Laut Familia Portunidae yang Didapat di Pantai Timur Surabaya dan Sekitarnya
5	2010	Eksplorasi Bakteri <i>Azospirillum</i> Pada Kawasan Hutan Mangrove Surabaya

Publication

- Lead toxicity at different life stages of the giant prawn (*Macrobrachium rosenbergii*, de Mann): considerations of osmoregulation capacity and histological changes in adult gills. 2016. 49(3) : 187-200 Marine and Freshwater behavior and Physiology.
- Concentration of Mercury in Cockles (*Anadara granosa* and *A. antiquata*) Harvested from Estuaries of Western Lombok, Indonesia, and Potential Risk to Human Health . 2016. 96 (1) : 20-24 Bulletin Of Environmental Contamination And Toxicology
- Kepadatan Dan Keanekaragaman Plankton Di Perairan Mangetan Kanal Kabupaten Sidoarjo Provinsi Jawa Timur Dari Daerah Hulu, Daerah Tengah Dan Daerah Hilir Bulan Maret 2014. 2015. 3(1) : 37-46 Jurnal Ilmiah Biologi FST.
- Interaksi Blekok Sawah (*Ardeola speciosa*) Dengan Burung Jenis Lain Saat Mencari Makan Di Wonorejo. 2014
- Variasi Morfologi Cangkang Kijing *Elongaria orientalis* (Lea, 1840) Di Sungai Brantas, Jawa Timur. 2014
- Indeks Keanekaragaman Makrozoobentos Di Saluran Induk Mangetan Kanal, Kabupaten Sidoarjo. 2014

- Effect of Cadmium on survival, osmoregulation and gill structure of the Sunda prawn, *Macrobrachium sinrangense* (de Mann), at different salinities. 2014. 47 (5): 349-360 Marine and Freshwater Behaviour and Physiology.
- Concentration of Lead, Cadmium and Mercury in Common Poyfish (*Leiognathus equulus*) from East Java Coast, Indonesia and Its Impact on Human Health. 2014. 11 (3): 17-22 Asian Jurnal of Water, Environment and Pollution.
- Effect of copper on survival, osmoregulation, and gill structure of freshwater prawn (*Macrocrachium rosenbergii*, de Mann) at different development stages. 2013. 46 (2): 75-88 Marine and Freshwater Behaviour and Physiology.
- Keanekaragaman Dan Pola Distribusi Longitudinal Spesies Kerang Air Tawar Corbiculidae Di Sungai Brantas Periode Januari – Februari 2012. 2013
- Eksplorasi Spesies Kijing Air Tawar Unionidae di Sungai Brantas Jawa Timur. 2013
- Studi Keanekaragaman Hewan Makroinvertebrata di Kali Kromong Kecamatan Pacet Kabupaten Mojokerto. 2013
- Effect of Lead on Survival, Osmoregulation, and Histological Changes of the Gills of the White Shrimp, *Litopenaeus vannamei* Boone. 2013. 44 (4) : 547 – 556 Journal of World Aquaculture Society
- Concentrations of Lead, Cadmium, and Mercury in Halfbeaks (*Hyporhamphus affinis*) from the East Java Coast, Indonesia and Human Health Hazard. 2013. 19 (1) : 151-157 Journal of Human and Ecological Risk : An International Journal
- Keanekaragaman Jenis Burung Pada Berbagai Tipe Pemanfaatan Lahan Di Kawasan Muara Kali Lamong, Perbatasan Surabaya- Gresik. 2012. 17 : 131-138 Berkala Penelitian Hayati.
- Effect of Cadmium and Zinc In Different Salinity Levels on Survival And Osmoregulation of White Shrimp (*Litopenaeus vannamei* Boone). 2012. 45 (4): 291-302 Marine and Freshwater Behaviour and Physiology.
- Blooming Stimulation of Microcystis in DSutami Reservoir Using Nutrients Nitrate and Phosphate in Different ratio. 2011
- Mercury Concentration in Edible Species Harvested from Gresik Coast, Indonesia and its Health Risk Assessment. 2010. 51:1-8 Cah. Biol. Mar
- Daya Dukung dan Laju Pertumbuhan *Microcystis* Hsil Isolasi dari Waduk Sutami pada Berbagai Variasi Konsentrasi Nitrat dan Fosfat dalam Medium Selektif B-12. 2010. Biota Vol. 15(3) : 354-362
- Potensi Formulasi Bakteri Pereduksi Nitrat Waduk Sutami Malang dalam Menghambat Pertumbuhan *Microcystis*. 2009. Berkala Penelitian Hayati Vol. 14 : 209 - 217
- Proporsi *Charybdis affinis* Jantan di Perairan Pantai Selat Madura, Gresik, Cenderung Meningkatkan. 2009. Berkala Penelitian Hayati Edisi Khusus 3B : 55 – 57
- Distribusi dan Preferensi Habitat Spesies Kupang dan lorjuk di Perairan Pantai Timur Surabaya. 2009. . Berkala Penelitian Hayati Edisi Khusus 3B : 37 – 41
- Distribusi Ektoparasit *Argulus* (Predileksi) pada Tubuh Ikan Mas koki (*Carassius auratus*). 2009
- Bioacumulation of Heavy Metals in Aquatic Animals Collected from Coastal Waters of Gresik, Indonesia. 2008. 6(2) : 95 – 100. Asian Journal of Water, Environment and Pollution.
- Trace Metal Concentrations in Aquatic Animals Collected from the Coastal Water of Gresik, Indonesia. 2008.
- Toxicity of Drilling Waste and Its Impact on Gill Structure of Post Larvae of Tiger Prawn (*Penaeus monodons*). 2008. 2(1) : 36 – 41 Global Journal of Environment Research.

- Hanya Dua di antara Lima Station Sampling *Charybdis affinis* Dana, 1852 Selama Tujuh Tahun di Selat Madura Gresik yang Memiliki Korelasi Kuat dengan Populasi. 2008
- Kelimpahan Lorjuk (*Solen vaginalis*) di Perairan Pantai Timur Surabaya. 2008
- Aggressive Behaviour of Male Siamese Fighting Fish *Betta splendens* in Different Colour Environment. 2006.
- Kekayaan Jenis Portunidae di Sisi Shipping Line Selat Madura. 2006. Berkala penelitian Hayati Vol. 11 : 93-96.
- Ecofisaheries: Suatu konsep yang masih harus dikonkritkan. 2005
- Pengaruh Salinitas Terhadap Toksisitas Tembaga (Cu) Pada Udang Regang (*Macrobrachium sintangense*). 2004
- Pola Pemijahan Udang Air Tawar *Macrobrachium sintangense* (De Man); pengamatan semusin di Ranu Klindungan Pasuruan. 2000. Berkala Penelitian Hayati 5 : 49-108
- Ambang Waktu Pendedahan Telur *Lymnea sp.* untuk Mengamati Abnormalitas Embrio Sebagai Parameter dalam Uji Hayati Terhadap Karbamat. 2006. Journal of Biological research 6(1) : 71-76
- Isolasi, karakterisasi dan uji ekspresi gen *ALP1* di *Escherisia coli* DH5 α . 1999
- Metoda Terapan Ekstrasi Kitosan dari Udang Windu. 1999
- Amplifikasi dan Karakterisasi Gen *ALP1 Endomyopsis fibuligera* ITB R.cc64 Dungeon PCR. 1998
- Toleransi Udang Regang *Macrobrachium sintangense* terhadap Salinitas. 1996
- Penentuan Jarak Genetik. 1997
- Faktor Pembatas Distribusi Vertikal tiga Jenis Kepiting Muara (*Ocypodidae* dan *Grapsidae*) di Muara Kali Kepiting Surabaya. 1996
- Tingkat Perbedaan Genetik Antar Populasi dari Dua Species Kepiting Muara, *Helice tridens* dan *Chiromantes dehaan*. 1996
- Difference of Salinity Requirements among the Three Estuarine Crab Species, *Chiromantes dehaani*, *Helice tridens* and *H. japonica* (Brachyura: Grapsidae). 1994. Tohoku Journal of Agriculture vol. 44(1-4) : 39 - 47
- Degree of Genetic Differentiation among Different River Population in Two Estuarine Crabs, *Helice tridens* and *Chiromantes dehaani*. 1994. Tohoku Journal of Agriculture vol. 44(1-4) : 49 – 57
- Genetic Divergence among the Three Species of Estuarine Crab, *Helice tridens*, *H. japonica* and *Chiromantes dehaani* (Sesarinae, Grapsidae; Decapoda). 1993

Books

- Lingkungan Abiotik jilid: Atmosfer, Hidrosfer, Litosfer xvii; 212. 2015. Airlangga University Press
- Karsinologi dengan penjelasan deskriptif dan fungsional xix; 520. 2013. Airlangga University Press
- Genetika; penjelasan mekanisme pewarisan sifat xix; 318. 2010. Airlangga University Press
- Genetika Molekuler xxvi; 249. 2008 : Airlangga University Press
- Teori dan Praktik Ekologi xi; 176. 2008 : Airlangga University Press