

Curriculum Vitae

chronological
&
detailed

S.H.N.P. Gunawickrama, *Ph.D (Bergen)*

December 30, 2020

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1. Objective

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2. Bio-data

Name, Name (full), Title,	S.H.N.P. Gunawickrama Suwanda Hennadige Nandana Priyankara Gunawickrama Dr
Country of citizenship, Date of birth, Gender,	Sri Lanka July 04, 1963 male
Occupation,	Senior Lecturer, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka
Permanent address,	75, Sri Subadrarama Mawatha, Galle, Sri Lanka <i>Tel,</i> (++94) 091 2225032, <i>Mobile tel,</i> (++94) 071 8209986
e-mail,	nandana.gunawickrama@gmail.com

3. Bachelor of Science degree in Biological Sciences

Subjects studied, Zoology, Chemistry & Botany (each subject was a three year course)
Course duration, from 07/1983 to 12/1986
Effective date, January 01, 1987

Institution, Faculty of Science,
University of Ruhuna,
Matara,
Sri Lanka

4. Master of Science degree in Environmental Science

Institution, Department of Zoology,
Faculty of Science,
University of Colombo,
Colombo 03,
Sri Lanka

Course duration, two years
Effective date, October 01, 1995

4.1 Taught component (year one)

structure function and organization of ecosystems
natural resources
human ecology
human impact on physical environment
human impact on biological environment
wildlife management and conservation
environmental legislation
planning and management for sustainable development

4.2 Master thesis (year two)

Title, Effects of copper on selected haematological and blood chemistry parameters of adult *Oreochromis niloticus* (Cichlidae)

Research area, Aquatic Toxicology

5. Doctoral degree in Aquatic Toxicology/ Immunology/ Molecular Biology

Institution,	Department of Molecular Biology, Faculty of Mathematics and Natural Sciences, University of Bergen, Bergen, Norway
Date of award,	January 03, 2001
Date of public defence,	December 14, 2000
Duration	five years (January, 1996 - December, 2000)

5.1 *Courses obtained*

Gene Technology
Protein Structure and Function
Nucleic Acids Structure and Function
Molecular Immunology
Electron Microscopy
Aquatic Ecotoxicology
Cellular and Molecular Toxicology of Aquatic Organisms

5.2 *Doctoral seminar*

Evolutionary diversity of the cytochrome P450 2 (CYP2) family: Substrate specificities and regulation mechanisms.

5.3 *Doctoral thesis*

Cytochrome P4501A expression, oxidative stress, and genotoxicity: Prolonged effects of benzo(a)pyrene alone, and in presence of 3,3',4,4'-tetrachlorobiphenyl in a fish model.
ISBN 82-7653-020-6

5.4 *Area of speciality*

Toxicology of organic chemical pollutants such as polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), and dioxins in aquatic environments with particular attention on fin-fish responses; Xenobiotic-responsive cytochromes P4501A, 2B, and 4A gene subfamilies, their expression regulation and toxicological relevance; Aryl hydrocarbon receptor (AhR) pathways followed by biotransformation, bioactivation and toxic-endpoints of organic pollutants; Chemically-induced oxidative stress, genotoxicity & carcinogenesis; Biomarkers and biomonitoring of aquatic/marine pollution in relation to crude oil and petroleum contamination; Mechanistic toxicology; Immunology, Antibody based analytical methods at research level.

6. Post-graduate certificates

6.1 *Certificate in Advanced Aquatic Toxicology (USA)*

Institution,	Virginia Institute of Marine Science, College of William and Mary, Virginia, USA
Grade earned,	A (marks >93%)
Duration,	April 21- 25, 1999 (intensive)

6.2 *Certificate in International Health (Norway)*

Institution,	Centre for International Health, University of Bergen, Bergen, Norway
Courses followed,	Epidemiology International Health Medical Statistics Medical Anthropology Research Theory
Duration,	August, 1996- January, 1997

6.3 *Certificate of Teaching in Higher Education (Sri Lanka)*

Institution,	Staff Development Center, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka
Duration,	February-September 2019

7. Other advanced research training

7.1 *Oxidative damage (Spain)*

As a visiting pre-doc

Department of Zoology and Animal Cell Dynamics,
University of Basque Country,
Bilbao,
Spain.

In vitro analyses of fish liver pro-oxidant effects and anti-oxidant responses upon organic contaminant exposure

August/ September, 1998

Ref. Prof. Dr. Miren P. Cajaraville
E-mail, gcpcabem@lg.ehu.es

7.2 *Genome size variation (USA)*

As a visiting post-doc

Department of Wildlife and Fisheries Sciences,
Texas A&M University,
College Station, Texas, USA.

Flow cytometry analyses of erythrocyte DNA content variation
in contaminant exposed feral fish
May-July, 2005

Ref, Prof. Dr. John Gold
E-mail, goldfish@tamu.edu

7.3 *Proteomics (Norway)*

As a guest researcher

Department of Biology,
University of Bergen,
Thormøhlensgt. 53 A/B
HIB, N 5020, Bergen,
Norway.

2-D SDS PAGE followed by protein spot analyses using
Decodon Delta2D (4.0) software, and pertaining statistical work
on PCB153 exposed Cod (*Gadus morhua*)

Feb 8–Aug 3, 2011

Ref, Prof Dr. Anders Goksoyr
E-mail, anders.goksoyr@bio.uib.no

8. Skilled laboratory methods at research-level

8.1 Experimental design and systems,

Designed and carried out short-term (weeks) and long-term (years) controlled laboratory experiments for xenobiotic effects on fin-fish; maintained, dosed, and sampled fish in static, recirculation as well as flow-through systems; handled tropical/fresh water as well as temperate/ marine fin-fish; exposed to heavy metals as well as to pro-carcinogenic PAHs and PCBs in water and by intra-peritoneal injection; experienced in sampling techniques, fish anesthesia and recovery, skilled in minimization of experimental variation in study execution followed by laboratory analyses, proper data management and statistical approaches for valid results

8.2 Analytical methods,

Differential centrifugation (high speed- and ultra-centrifugation)
Tissue homogenization and sub-cellular fractionation
UV/VIS spectrometry
Fluorescence spectrometry
Autoradiography
Ion-exchange chromatography
Liquid scintillation counting
DNA amplification/ PCR and RT-PCR.

Extensively experienced in following immunological methods
and in use of polyclonal and monoclonal antibodies

ELISA

Western Blotting

Radio immunoassays (RIA)

developed a competitive RIA (USERIA) for detection of
benzo(a)pyrene diol-epoxide -DNA adducts in fish liver
genomic DNA

Fow-cytometry

Measured *in vitro* activities of numerous enzymes involved in
organic pollutant bio-transformation (EROD, GST, UDPGT),
pro-oxidant effects (acyl-CoA oxidase), and anti-oxidant
defence (SOD, CAT, GPX) in fish liver.

Isoelectric focussing followed by 2-Dimensional gel
electrophoresis (2D-PAGE) and gel image analysis with
Decodon Delta 2D (4.0) software/ Proteomics

RT-PCR

9. Professional experience

9.1 Academic

- **Senior Lecturer (grade II)** on contract (18 months at Depts of
Fisheries Biology, Zoology, and Agricultural Biology at
University of Ruhuna, Matara, Sri Lanka (May 2001/ Feb 2003)

Developed and/ or offered undergraduate courses,

Immunology

Fish Immunology

Nucleic Acid Molecular Biology

Genetic Engineering of crop improvement

Ecology

- **Visiting Research Fellow** at Institute of Tropical Aquaculture, University Malaysia Terengganu, Kuala Terengganu, Malaysia (June 2006-Sept 2007)

- **Senior Lecturer (grade II)** on contract (06 months at Dept of Chemistry, University of Kelaniya, Sri Lanka (Sept 2008- Feb 2009)

Developed and offered undergraduate courses,

Pharmaceutical Chemistry¹
Immunochemistry²

- **Senior Lecturer (grade II)** Temp at Dept of Physical Sciences and Technology, Sabaragamuwa University of Sri Lanka, Belihuloya (April 01, 2009 – February 05, 2011)

Developed and offered undergraduate courses,

Dept of Physical Sciences and Technology,
Natural Products Chemistry¹
Industrial Chemistry and Technology I¹
Special Topics in Chemistry/ Immunochemistry³
Polymer Technology¹
Biology for Physical Sciences¹

Department of Natural Resources
Industrial Chemistry and Technology (including practical)²
Introduction to Hydrology¹
Management of Coastal and Marine Resources/
Oceanography²

Department of Food Science and Technology
Food Toxicology²

¹ 30 lecture hours

² 15 lecture hours

³ 10 lecture hours

- **Senior Lecturer (grade II)** Temp at Dept of Zoology, Univeristy of Sri Jayawardenepura, Sri Lanka (December 17, 2012 – December 16, 2013)

Developed and offer undergraduate courses,

Cytology	(15 hours)
Biology of the Cell	(22.5 hours)
Animal Form and Function	(partial; 15/30 hours)
Environmental Toxicology	(partial; 7/15 hours)

- **Senior Lecturer (grade II)** at Combinatorial Advanced Research and Education, Sir John Kotelawala Defence University, Sri Lanka (September 4, 2014 – October 31, 2017)
Offer following undergraduate courses at the Faculty of Engineering,

Immunology (15/30 hours)
Basic Biology (5/15 hours)
Instrumental Methods in Life and Biomedical Sciences (45 hours)

Offer following undergraduate courses at the Faculty of Allied Health Sciences,

Immunology (20/30 hours)
Environmental Toxicology (6/15 hours)

- **Senior Lecturer (grade I)** at Combinatorial Advanced Research and Education, Sir John Kotelawala Defence University, Sri Lanka (November 1, 2017 – to date)
Offer following undergraduate courses at the Faculty of Engineering,

Immunology (6/30 hours)
Instrumental Methods in Life and Biomedical Sciences (45 hours)

Offer following undergraduate courses at the Faculty of Allied Health Sciences,

Immunology (20/30 hours)
Environmental Toxicology (6/15 hours)
Cell biology and Molecular Genetics (15/30 hours)

9.2 As a research article reviewer

A reviewer of Elsevier journal, *Aquatic Toxicology* (ISSN: 0166-445X), Five year impact factor; 3.948
Ref, Prof. Dr. Ron Tjeerdema, Co-Editor in Chief
E-mail, rstjeerdema@ucdavis.edu

10. Current research

10.1 Research Focus

Aquatic Toxicology of organic contaminants, Chronic kidney disease of unknown etiology in Sri Lanka,

10.2 Research Grants

- 1) No: MSTR/TRD/AGR/RD/01 awarded on October 19, 2015 for the research project “**Mechanistic verification of the suspected metal-linked etiology of the chronic kidney disease (CKDu) in Sri Lanka: a molecular approach**” by National Science and Technology Commission, through the Ministry of Science, Technology and Research of Sri Lanka.

- 2) Grant No RPHS/2016/CKDu 04 awarded on December 29, 2016 by the National Science Foundation (NSF) for the research project of **'Immunomodulation associated with CKDu progression, of Sri Lanka'**

10.3 Research Projects (as principal investigator)

- 1) Mechanistic verification of the suspected metal-linked etiology of the chronic kidney disease (CKDu) in Sri Lanka
- 2) Immunomodulation associated with CKDu progression, of Sri Lanka

11. Communications and publications

11.1 Books

Nandana Gunawickrama (2011) **AhR-Binding pollutants in aquatic environment: Biological impact and methods for biomonitoring and risk assessment** ISBN, 978-3-639-32819-6 VDM Verlag Dr. Muller Aktiengesellschaft & Co. KG, Saarbrucken, Germany

Nandana Gunawickrama (2009) **Core Immunology** ISBN 978-955-573-808-8, Sarasavi Publishers, Nugegoda, Sri Lanka

Nandana Gunawickrama (2007) **Controlled Laboratory Experiments: design and data analyses, an aquatic Toxicology perspective.** ISBN 978-983-2888-60-4, UMT Publisher, Terengganu, Malaysia

Nandana Gunawickrama (2007) **Fish Cytochrome P4501A: a biomarker for aquatic environmental health.** ISBN 978-983-2888-59-8, UMT Publisher, Terengganu, Malaysia

11.2 Research publications

Gunawickrama, SHNP, KIG Hewavitharana, PGCL Nanayakkara, R.M.K.T. Rathnayaka, KBS Gunawickrama, (2020) Hematology of poor renal outcomes in an area endemic to chronic kidney disease of unknown aetiology (CKDu) in Sri Lanka (in review at *Indian Journal of Medical Research*, MS No. IJMR-2225-20)

Gunawickrama S.H.N.P., Hewavitharana K.I.G., Silva A.R.N., Nanayakkara P.G.C.L., Gunawickrama K.B.S., Jayasekara J.M.K.B. (2020) Risk Factor Distribution among Subjects with Declined Estimated-Glomerular Filtration Rate in Areas Endemic to Chronic Kidney Disease of Unknown Aetiology of Sri Lanka. *J Kidney* 6:179. doi-10.35248/2472-1220.20.6.179

- Rifkana, D.M.F., **Gunawickrama, S.H.N.P.**, Gunawickrama K.B.S. (2019) Effects of waterborne Diclofenac on guppy (*Poecilia reticulata*): behavioural, histopathological, developmental and haematological approach under chronic laboratory exposure. *Proceedings of the 12th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka.* 661-668.
- Rifkana, D.M.F., Gunawickrama, **S.H.N.P.**, **Gunawickrama** K.B.S. (2019) Effects of waterborne Diclofenac on guppy (*Poecilia reticulata*): behavioural, histopathological, developmental and haematological approach under chronic laboratory exposure. 221-221 *Abstracts/ Basic and Applied Sciences: 206-206, 12th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka*
- Hewavitharana K.I.G., Silva A.R.N., Kumara G.W.G.P., Karunarathna R.H., Nanayakkara P.G.C.L., Gunawickrama K.B.S., Jayasekara J.M.K.B., RMKT Rathnayaka, and **Gunawickrama, S.H.N.P.** (2019) Leukocyte, thrombocyte and cytokine profiles of the CKD affected people of Girandurukotte and Mahiyanganaya area of Sri Lanka. *Abstracts/ Basic and Applied Sciences: 206-206, 12th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka*
- Silva A.R.N., Hewavitharana K.I.G., Kumara G.W.G.P., Karunarathna R.H., Nanayakkara P.G.C.L., Gunawickrama K.B.S., Jayasekara J.M.K.B., RMKT Rathnayaka, and **Gunawickrama, S.H.N.P.** (2019) Comparative assessment of eGFR variants in CKD diagnosis: A study in Padaviya area of Sri Lanka. *Abstracts/ Allied Health Sciences: 243-243, 12th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka*
- Gunawickrama, SHNP**, KIG Hewavitharana, ARN Silva, PGCL Nanayakkara, KBS Gunawickrama, JKMB Jayasekara (2019) Risk factor distribution among subjects with declined estimated-glomerular filtration rate in areas endemic to chronic kidney disease of unknown aetiology in Sri Lanka Submitted to *J Kidney* on Nov 15, 2019 (jok-19-2710) *in review*
- Jayasekara J.M.K.B., Dissanayake D.M., Shihana F., Sivakanesan R., Silva R.N., **Gunawickrama S.H.N.P.** (2018) Comparison of serum cystatin C and creatinine levels among individuals with persisting proteinuria in farming communities of rural Sri Lanka. *Malays J Med Sci.* **25 (6):** 67–75
- Silva A.R.N., Gunawickrama K.B.S., Jayasekara J.M.K.B., Kumara G.W.G.P., Karunarathna R.H., Ranasingha A.V., Nanayakkara P.G.C.L., Hewavitharana K.I.G., **Gunawickrama, S.H.N.P.** (2018) Metallothionein responses in relation to disease progression in CKD affected people of Padaviya, Sri Lanka. *Abstracts/ Allied Health Sciences: 37-37, 11th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka.*

- Hewavitharana K.I.G., Silva A.R.N., Kumara G.W.G.P., Karunarathna R.H., Ranasingha A.V., Jayasekara J.M.K.B., Nanayakkara P.G.C.L., Gunawickrama, K.B.S., **Gunawickrama, S.H.N.P.** (2018) Hematological variations along disease progression in CKD affected people of Girandurukotte and Mahiyanganaya, Sri Lanka. *Abstracts/ Allied Health Sciences: 50-50, 11th International Research Conference, Sir John Kotelawala Defence University, Sri Lanka*
- Dissanayaka, D.D.S., **Gunawickrama, S.H.N.P.**, Gunawickrama, K.B.S. (2018). Effects of acetaminophen exposure on behaviour, erythrocyte nuclear morphology and gill histology of juvenile *Oreochromis niloticus*: an experimental study. *Proceedings of 5th Ruhuna International Science & Technology Conference (RISTCON 2018), University of Ruhuna, Sri Lanka pp 43*
- Peiris, H.R.S.C., **Gunawickrama, S.H.N.P.**, Gunawickrama, K.B.S. (2017) Behavioural changes caused by waterborne acetaminophen exposure in the guppy, *Poecilia reticulata*. *Proceedings of the tenth international research conference, General Sir John Kotelawala Defence University, Sri Lanka: Basic and Applied Sciences pp.26*
- Silva, A.R.N., Dissanayaka, D.D.S., Karunarathne, W.A.C., Kumara, G.W.G.P., Karunarathna, R.H., Nanayakkara, P.G.C.L., Gunawickrama, K.B.S., Ranasingha, A.V., Jayasekara, J.M.K.B., **Gunawickrama, S.H.N.P.**, (2017) Combinative criteria for identifying stages of CKD patients using both eGFR and urine albumin to creatinine ratio *Proceedings of the tenth international research conference, General Sir John Kotelawala Defence University, Sri Lanka: Allied Health Sciences pp.89*
- Hewavitharana, K.I.G., Liyanage, P.L.B.C., Silva, A.R.N., Kumara, G.W.G.P., Karunarathna, R.H., Ranasingha, A.V., Jayasekara, J.M.K.B., Nanayakkara, P.G.C.L., Gunawickrama, K.B.S., **Gunawickrama, S.H.N.P.**, (2017) Risk Factor distribution among people affected with the chronic kidney disease (CKD) in Padaviya, Sri Lanka. *Proceedings of the tenth international research conference, General Sir John Kotelawala Defence University, Sri Lanka: Allied Health Sciences pp.49*
- Hewavitharana, K.I.G., **Gunawickrama, S.H.N.P.**, Gunawickrama, K.B.S (2017) Post-hatch ontogenetic changes and their functional significance in guppy fishes (*Poecilia reticulata*) revealed by histology and osteology. *Proceedings of 4th Ruhuna International Science & Technology Conference, University of Ruhuna, Sri Lanka. pp. 30*
- Gunawickrama S.H.N.P.**, Panawala, M., Gunawickrama, K.B.S. (2016) Impaired growth and erythrocyte nuclear lesions of immature *Oreochromis niloticus* exposed to crude oil: Persistent responses. *Sri Lanka J. Aquat. Sci.* **21(2)**: 113-124

- Gunawickrama, S.H.N.P.**, Hettiarachchi, D.D., Gunawickrama, K.B.S. (2014) Effects of contaminated harbour sediment on the growth and histopathology of Nile tilapia (*Oreochromis niloticus*): A long-term study. *J. Univ. Ruhuna* **2**:14-23
- Gunawickrama, S.H.N.P.**, Aarsæther, N., Orbea, A., Cajaraville, M.P., Goksøyr, A. (2008) PCB77 (3,3',4,4'-tetrachlorobiphenyl) co-exposure prolongs CYP1A induction, and sustains oxidative stress in B(a)P exposed turbot, *Scophthalmus maximus*, in a long-term study *Aquatic Toxicology* **89**: 65-74
- Silva, A.R.N., Jayasekara, J.M.K.B., Kumarasingha, N., Karunathilaka, R.D.N., **Gunawickrama, S.H.N.P.** (2016) Variations of serum creatinine levels among CKDu patients: Retrospective study. *Proceedings of the 9th International Research Conference, General Sir John Kothalawala Defence University, Sri Lanka*. pp. 269
- Hewavitharana, K.I.G., **Gunawickrama, S.H.N.P.**, Gunawickrama, K.B.S. (2016) Short term exposure to WAF of crude oil induces pathological lesions in guppy (*Poecilia reticulata*) fries: a freshwater study. *Proceedings of the 9th International Research Conference, General Sir John Kothalawala Defence University, Sri Lanka*. pp. 205
- Kanthi, A., Gunawickrama, **S.H.N.P.**, **Gunawickrama, K.B.S.** (2015) Temporal trends in erythrocyte nuclear abnormalities and leukocyte counts of hybrid red Tilapia upon prolonged exposure to crude oil. *Proceedings of the 2nd Ruhuna International Science and Technology Conference, University of Ruhuna, Sri Lanka* pp, 61 Jan 22-23, 2015
- Gunawickrama S.H.N.P.**, Manel Panawala, Gunawickrama, K.B.S. (2014) Growth effects and erythrocyte nuclear abnormalities in juvenile *Oreochromis niloticus* experimentally exposed to crude oil. *Proceedings of the 1st Ruhuna International Science and Technology Conference, University of Ruhuna, Sri Lanka* pp, 75 Jan 22-23, 2014
- Gunawickrama, K.B.S., D.D. Hettiarachchi, **Gunawickrama, S.H.N.P.** (2013) Gill and liver histopathological alterations in juvenile *Oreochromis niloticus* exposed to contaminated sediment from a fisheries harbour. *Proceedings of 9th Ruhunu Science Symposium of University of Ruhuna, Sri Lanka* pp 33 January 9, 2013
- Gunawickrama, S.H.N.P.**, Goksøyr, A. (2010) Evidence that CYP1A induction persists upon PAH-PCB synergy in teleosts. *Program and abstracts of the 3rd international symposium of Sabaragamuwa University of Sri Lanka*, Pp 54 August 26-28, 2010.

- Gunawickrama, K.B.S., D.D. Hettiarachchi, **Gunawickrama, S.H.N.P.** (2010) Effects of long-term exposure to contaminated harbour sludge on growth performance of juvenile Nile Tilapia, *Oreochromis niloticus*. *Program and abstracts of the 3rd international symposium of Sabaragamuwa University of Sri Lanka*, Pp 131 August 26-28, 2010
- Sampath, W.D.M., **Gunawickrama, S.H.N.P.**, Senevirathne, W.M.G. (2010) Property improvement of natural rubber (NR) acrylonitrile butadiene rubber (NBR) blends by compatibilizing with chloroprene rubber (CR) *Proceedings of the 11th annual research session, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka*. January 12-13, 2010
- Jayamini, H.G.S., **Gunawickrama, S.H.N.P.**, Hemalal, K.D.P. (2010) Determination and evaluation of flavour and freshness of toothpastes with respect to time. *Proceedings of the 11th annual research session, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka*. January 12-13, 2010
- Gunawickrama, K.B.S., Dilrukshana, D.A.M., **Gunawickrama, S.H.N.P.** (2010) Evidence for geographic heterogeneity and population differentiation in *Puntius chola* (Cyprinidae) using morphometric analysis. *Proceedings of 7th science Symposium, University of Ruhuna* December, 2010
- Gunawickrama, S.H.N.P.**, Aarsaether, N., Goksøyr, A. (2000) BPDE-DNA adduct pattern in *Scophthalmus maximus* upon long-term repeated exposure to B(a)P and B(a)P+PCB77 mixture. *Proceedings of the Third SETAC world congress, Brighton, United Kingdom* May, 2000
- Gunawickrama, S.H.N.P.**, Goksøyr, A. (2000) CYP1A and phase II responses of *Scophthalmus maximus* upon long-term repeated exposure to B(a)P and B(a)P-PCB77 mixtures. *Marine Environmental Research* 50 1-5, 68-69
- Gunawickrama, S.H.N.P.**, Goksøyr, A. (1998) Effects of long-term toxicant exposure on selected molecular biomarkers, liver histopathology, genotoxicity, and reproductive toxicology of turbot, *Scophthalmus maximus*. *Marine Environmental Research*. 46 1-5, 124
- Dissertations*
- Gunawickrama, S.H.N.P. (2000) Cytochrome P4501A expression, oxidative stress, and genotoxicity: Prolonged effects of benzo(a)pyrene alone, and in presence of 3,3',4,4'-tetrachlorobiphenyl in a fish model. *ISBN 82-7653-020-6 Doctoral Thesis*, University of Bergen
- Gunawickrama, S.H.N.P. (1995) Effects of copper on selected haematological and blood chemistry parameters of adult *Oreochromis niloticus* (Cichlidae) *M.Sc. Thesis*, University of Colombo

Reports

Goksøyr, A., Gunawickrama, S.H.N.P., A. Arukwe, (1999). Long-term effects of model compounds in produced water on the reproductive ability and progeny of turbot (*Scophthalmus maximus*). End report of project nr. 98H11 to the Norwegian Oil and Energy Department

11.3 Distinguish lectures

CYP1A, Dioxin-like pollutants and toxic end-points in fish (Library Auditorium; University Malaysia Terengganu, Malaysia/ Sept 09, 2007)

12. Referee

Professor, Dr. Anders Goksøyr,
Dept of Biology,
University of Bergen, HIB, N 5020, Bergen,
Norway.
tel, (+47) 55584403
mobile, (+47) 970 70 994
e-mail, anders.goksoyr@bio.uib.no