

## CV Anna Godhe

Female (670807-3900), Married, one child born 2005

University of Gothenburg, Dept Biological and Environmental Sciences, Box 461,  
SE 405 30 Göteborg

Tel: 031/7862709, email. anna.godhe@bioenv.gu.se

### 1. Higher Education Degree

MSc University of Gothenburg, Nov 1995, Marine Biology

### 2. Doctoral Degree

2002, Marine Botany, Benthic and pelagic dinoflagellate stages: environmental settings, cyst viability, and molecular identification. Supervisor: Professor Inger Wallentinus.

### 3. Post-docs/Guest research

College of Fisheries, Mangalore, India, Nov 2003-Apr 2004, Nov 2004-Feb 2005, Nov 2005-Mar 2006, Dec 2006-Mar 2007, Nov 2007-Mar 2008, Dec 2008-Mar 2009, Dec 2009-Mar 2010, Dec 2010-Mar 2011, Dec 2011-Feb 2012, Dec 2011-Feb 2013, Nov 2013-Feb 2014, Nov 2014-Feb 2015.

Stazione Zoologica Anton Dohrn. Naples, Italy, May 2012, June 2014.

Inst Biology, University of Copenhagen, Feb 2005, Sep 2005, Jun 2006, Aug 2006.

National Institute of Oceanography (NIO), Dona Paula, India, Dec 2004-Jan 2005.

Inst Mathematics and Natural Sciences, Kristianstad University, Jan-Dec 2003.

### 4. Associate Professor (Docent) 2009

### 5. Current position

Professor in Marine Ecology, Dept Marine Science, University of Gothenburg, 50% research.

### 6. Previous positions

Jun 2007–Jun 2012 Forskarassistent (Assistant Professor) Funded by Formas.

Jan 2003-May 2007: Researcher, Funded by Sida/Formas/VR.

Jul 1997-Dec 2002: Ph.D. position.

### 7. Leaves of Absence

Parent leave: From 060501-060831 100%, 060901-070831 50%, 070901-080831 25%, 080901-100831 20%. Total 17.8 months

### 8. Supervision

PhD student main supervisor:

Karolina Härnström 2009, Maria Asplund 2013, Josefin Sefbom 110601-, Susanna Gross 110901-, Gurpreet Kahlon 120901-

PhD students, assistant supervisor:

Vasudevan Saravanan 2006, Conny Sjöqvist Åbo Akademi, Finland, 100901-

Ingrid Sassenhagen, Lund University 110401

Sagitha Vaiciulyte, Chalmers Technical University, 140401-

Post-Docs:

Vijay Atnur (2009-2010), Arvind Singh (2012-2013), Sylvie Tesson (2013-2015), Lucy Turner (2014-2016), Kai Lohbeck (2015-2017)

## **Awards**

International Phycological Society 2011 Tyge Christensen Prize for best paper published in *Phycologia* in 2011.

## **Major ongoing research projects**

Human health and well being at risk: scenarios for climate change induced harmful microbial blooms along the Indian west coast. Funded by VR/UFORSK (2014-2016). PI Anna Godhe. Budget 4 203 kkr.

Marine microalgae enriched in carbohydrates for concomitant nutrient recycling and green chemicals production. Funded by Formas (2014-2016). PI Eva Albers Chalmers Technical University, Budget 5 177 kkr.

Detecting genomic signatures of anthropogenic induced stress by using revived diatoms from eutrophic fjords. (2013-2016) Funded by Formas, PI Anna Godhe, Budget 6 605 kkr.

Climate induced changes in the pelagic microbial communities: assessing the response of harmful algae and pathogenic bacteria in coastal water of Sri Lanka (2013-2015). Funded by VR/SRL. PI Anna Godhe, Budget 735 kkr

Exploring human-induced evolution using genomics of revived diatoms from natural archives (2013-2015) Funded by Swedish Research Council Formas, PI Anna Godhe, Budget 5 150 kkr.

Physical and biological dispersal barriers in invasive bloom-forming microalgae (2011-2013). Financed by Formas. PI Karin Rengefors, Lund University. Budget 7 772 kkr.

## **Editorial assignments**

Associate Editor, Proceedings XII Int. Conf. Harmful Algal Blooms. Moestrup Ø., G. Doucette, H. Enevoldsen, **A. Godhe**, G. Hallegraeff, J. Lewis, N. Lundholm, K. Rengefors, K. Sellner, K. Steidinger, P. Tester, A. Zingone. (Eds). Proceedings of the 12th International Conference on Harmful Algae. ISSHA and IOC of UNESCO (2008). pp . 397.

Member of the Editorial Board of the Journal Harmful Algae (Elsevier) 2012-14.

## **Council members of professional societies**

ISSHA International Society for Studies on Harmful Algae, Council Member 2012-present

## **Research grants (2008-2013)**

2010: Private fund (co-applicant) 2 000 000 SEK, Formas 737 000 SEK, Other private fund 70 000 SEK. Formas (co-applicant) 7 772 000 SEK.

2011: Private funds 58 000 SEK, Nordic Council of Ministers 1 000 000 NOK (co-applicant). Swedish Institute (SI) 18 months post-doc fellow for Arvind Singh

2012: Private funds: 968 000 SEK. VR (Swedish Research Links) 735 000 SEK, Formas 5 150 000 SEK.

2013: Formas 6 605 000 SEK, Private funds 25 000 SEK. European Social Fund's Doctoral Studies and Internationalisation Programme DoRa, Foundation Archimedes (5 months scholarship for Sirje Sildever). Assemble Mobility Grant. Formas (co-applicant) 5 177 000 SEK. VR/UFORSK 4 203 000 SEK.

2014: Faculty of Natural Sciences, University of Gothenburg 500 000+ 400 000 SEK (co-applicant). Faculty of Natural Sciences, University of Gothenburg, Sabbatical Program

347589 SEK. Kapten Stenholms Donationsfond 38 000 SEK, Private funds 355 000 SEK.  
2015: Post-doc fellowship for Kai Lohbeck (2 years) DFG.

## Publication list

H-index 21, 1145 citations (Google Scholar 150513) based on 65 contributions.

Total number of peer-reviewed articles: 45, peer-reviewed articles 2007-2015: 32

Total number of reviews/chapters: 14, reviews/chapters 2007-2015: 9

### *Peer-reviewed publications (2007-2015)*

14. **Godhe A.**, C. Cusack, D. Anderson, P. Andersen, E. Bresnan, A. Cembella, E. Dahl, S. Diercks, M. Elbrächter, L. Edler, L. Galuzzi, C. Gescher, M. Gladstone, B. Karlson, D. Kulis, M. LeGresley, O. Lindahl, R. Marin, G. McDermott, L. Medlin, L.-J. Naustvoll, J. Pedersen, A. Penna, K. Töbe. (2007) Intercalibration of new and classic techniques for identification of *Alexandrium fundyense* and estimation of its cell densities. *Harmful Algae* 6: 56-72.

Number of citations: 36

15. Härnström K, **A. Godhe**, V. Saravanan, I. Karunasagar, I. Karunasagar, A.-S. Rehnstam-Holm. (2007) Tropic phytoplankton community development - a study of mesocosms inoculated with different life stages. *Marine Ecology Progress Series* 346: 75-88.

Number of citations: 5

16. Ellegaard M, **A Godhe**, K Härnström, MR McQuoid. (2008) The species concept in a marine diatom: LSU rDNA-based phylogenetic differentiation in *Skeletonema marinoi/dohrnii* (Bacillariophyceae) is not reflected in morphology. *Phycologia* 47: 156-167

Number of citations: 27

17. **Godhe A**, Asplund M, Härnström K, Saravanan V, Tyagi A, Karunasagar I (2008) Quantifying diatom and dinoflagellate biomass in coastal marine sea water samples by real-time PCR. *Applied and Environmental Microbiology* 74: 7174-7182

Number of citations: 54

18. Almany G, De Arruda M, Arthofer W, Atallah Z, Beissinger S, Berumen M, Bogdanowicz S, Brown S, Bruford M, Burdine C, Busch J, Campbell N, Carey D, Carstens B, Chu K, Cubeta M, Cuda J, Cui Z, Datnoff L, Davila J, Davis E, Davis R, Diekmann O, Eizirik E, Fargallo J, Fernandes F, Fukuda H, Gale L, Gallagher E, Gao Y, Girard P, **Godhe A** et al. (2009) Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009-31 July 2009. *Molecular Ecology Resources* 9:1460-1466

Number of citations: 44

19. Taylor R, K Abrahamsson, **A Godhe**, S-Å Wängberg (2009) Seasonal variability in polyunsaturated aldehyde production potential between strains of *Skeletonema marinoi* (Bacillariophyceae). *Journal of Phycology* 45: 46-53

Number of citations: 21

20. Mertens KN, Ribeiro S, Bouimetarhan I, Caner H, Combourieu-Nebout N, Dale B, De Vernal A, Ellegaard M, Filipova M, **Godhe A**, et al (2009) *Lingulodinium machaerophorum* process length variation in surface sediments. *Marine Micropaleontology* 70: 54-69  
Number of citations: 45
21. Härnström K, I Karunasagar, **A Godhe** (2009) Phytoplankton species assemblages and their relationship to hydrographic factors—a study at the old port in Mangalore, coastal Arabian Sea. *Indian Journal of Marine Sciences* 38(2): 224-235  
Number of citations: 13
22. **Godhe A**, K Härnström (2010) Linking the planktonic and benthic habitat: genetic structure of the marine diatom *Skeletonema marinoi* revealed by microsatellite analysis. *Molecular Ecology* 19: 4478–4490  
Number of citations: 29
23. Saravanan V, **A Godhe** (2010) Genetic heterogeneity and physiological variation among seasonally separated clones of *Skeletonema marinoi* (Bacillariophyceae) in the Gullmar Fjord, Sweden. *European Journal of Phycology* 45: 177–190  
Number of citations: 15
24. \* Rehnstam-Holm A-S, **A Godhe**, K Härnström, PR Raghunath, V Saravanan, B Kronkvist, I Karunasagar, I Karunasagar (2010) Association between phytoplankton and *Vibrio* spp along the southwest coast of India- a mesocosm experiment. *Aquatic Microbial Ecology* 58:127-139  
Number of citations: 13
25. Lundholm N., S. Ribeiro, T.J. Andersen, T. Koch, **A. Godhe**, F. Ekelund, M. Ellegaard (2011) Buried alive – germination of up to 100 years-old marine dinoflagellate resting stages. *Phycologia* 50(6): 629-640.  
Number of citations: 18
26. \* Asplund ME, A-S Rehnstam-Holm, V Atnur, PR Raghunath, V Saravanan, K Härnström, B Collin, I Karunasagar, **A Godhe** (2011) Dynamics of *Vibrio* in relation to phytoplankton community composition and environmental conditions in the Arabian Sea. *Environmental Microbiology* 13(10): 2738–2751  
Number of citations: 19
27. Härnström, K, M Ellegaard, TJ Andersen, **A Godhe** (2011) Hundred years of genetic structure in a sediment revived diatom population. *PNAS* 108: 4252–4257  
Number of citations: 45
28. Mertens KN, B Dale, M Ellegaard, I-D Jansson, **A Godhe**, A Kremp, S Louwye (2011) Process length variation in cysts of the dinoflagellate *Protoceratium reticulatum*, from surface sediments of the Baltic-Kattegat-Skagerrak estuarine system: a regional salinity proxy. *Boreas* 40: 242–255  
Number of citations: 17

29. Nilsson RH, V Veldre, Z Wang, M Eckart, S Branco, M Hartmann, C Quince, **A Godhe**, Y Bertrand, JF Alfredsson, K-H Larsson, U Kõljalg, K Abarenkov (2011) A note on the incidence of reverse complementary fungal ITS sequences in the public sequence databases and a software means for their detection and reorientation. *Mycoscience* 52: 278-282

Number of citations: 9

30. Kremp A., **A. Godhe**, J. Egardt, S. Dupont, S. Suikkanen, S. Casabianca, A. Penna (2012) Intraspecific variability in the response of bloom forming marine microalgae to changing climatic conditions. *Ecology and Evolution*. doi: 10.1002/ece3.245

Number of citations: 37

31. Roger F., **A. Godhe**, L. Gamfeldt (2012) Genetic diversity and ecosystem functioning in the face of multiple stressors. *PLoS ONE* 7(9): e45007.

doi:10.1371/journal.pone.0045007

Number of citations: 9

32. Olofsson M., M.E. Asplund, I. Karunasagar, A-S Rehnstam-Holm, **A. Godhe** (2013) *Prorocentrum micans* promote and *Skeletonema tropicum* disfavours persistence of the pathogenic bacteria *Vibrio parahaemolyticus*. *Indian Journal of Geo-Marine Sciences* 42(6): 729-733.

Number of citations: 0

33. Bengtsson-Palme J., Ryberg M., Hartmann M., Branco S., Wang Z., **Godhe A.**, De Wit P., Sánchez-García M., Ebersberger I., de Sousa F., Amend A., Jumpponen A., Unterseher M., Kristiansson E., Abarenkov K., Bertrand Y. J. K., Sanli K., Eriksson K. M., Vik U., Veldre V., Nilsson R. H. (2013) Improved software detection and extraction of ITS1 and ITS2 from ribosomal ITS sequences of fungi and other eukaryotes for analysis of environmental sequencing data. *Methods in Ecology and Evolution* 4(10): 914-919.

Number of citations: 16

34. **Godhe A.**, Egardt J., Kleinhans D., Sunqvist L., Hordoir R., Jonsson P.R. (2013) Seascape analysis reveals regional gene flow patterns among populations of a marine planktonic diatom. *Proceedings of the Royal Society B*. 280 (1773) 20131599

Number of citations: 1

35. \* Rehnstam-Holm A-S, Atnur V, **Godhe A.** (2014) Defining the niche of *Vibrio parahaemolyticus* in the coastal Arabian Sea. *Microbial Ecology* 67: 57-65

Number of citations: 3

36. Sjöqvist, C., Kremp, A., Lindehoff, E., Båmstedt, U., Egardt, J., Gross, S., Jönsson, M., Larsson, H., Pohnert, G., Richter, H., Selander, E., **Godhe, A.** (2014) Effects of grazer presence on genetic structure of a phenotypically diverse diatom

population. *Microbial Ecology* 67: 83-95.

Number of citations: 0

37. Razaghi A, **Godhe A**, Albers E (2014) Effects of altered nitrogen to phosphorous ratio in batch cultures of the red alga *Porphyridium cruentum* for optimal production of carbohydrates. *Central European Journal of Biology* 9(2):156-162.

Number of citations: 1

38. Singh A., Hårding K., Reddy HRV, **Godhe A** (2014) An assessment of Dinophysis blooms in the coastal Arabian Sea. *Harmful Algae* 34: 29-35.

Number of citations: 0

39. **Godhe A**, Kremp A, Montresor M. (2014) Rejuvenating aquatic bloom forming protists: Genetic and microscopic observations of environmentally triggered sexual auxosporulation in the centric diatom *Skeletonema marinoi*. *Protist* 165: 401-416.

Number of citations: 0

40. Singh A., Ramesh R., **Godhe A** (2014) Inter-specific and intra-specific carbon and nitrogen assimilation by dinoflagellate and diatom species. *Current Science* 106: 867-870.

Number of citations: 0

41. Sassenhagen I, Wilken S, Godhe A, Rengefors K (2015) Phenotypic plasticity and differentiation in an invasive freshwater microalga. *Harmful Algae* 41: 38-45.

Number of citations: 0

42. **Godhe A**, Narayanaswamy C, Klais R, Moorthy KSV, Ramesh R, Rai A, Reddy HRV (2015) Long-term patterns of net phytoplankton and hydrography in the coastal SE Arabian Sea: What can be inferred from genus level data? *Estuarine Coastal Shelf Sciences*. [doi:10.1016/j.ecss.2015.03.006](https://doi.org/10.1016/j.ecss.2015.03.006)

Number of citations: 0

43. Shahi N., **Godhe A.**, Mallik S.K., Härnström K., Nayak B.B. (2015) Phytoplankton community structure and physico-chemical parameters of eutrophic waters of west Mumbai coast, India: A baseline study. *Indian Journal of Geo-Marine Sciences*. *In press*.

44. Söqvist C., **Godhe A.**, Jonsson P.R., Sundqvist L., Kremp A. (2015) Oceanographic and ecological drivers of seascape genetics in a marine phytoplankton species across the North Sea-Baltic Sea salinity gradient. *Molecular Ecology*. 24: 2871-2885.

45. Sefbom J., Sassenhagen I., Rengefors K., **Godhe A.** (2015) Priority effects in a planktonic bloom-forming marine diatom. *Biological Letters* 11:20150184
46. Sassenhagen I., Sefbom J., **Godhe A.**, Rengefors K. (2015) Germination and colonization success of algal cysts after dispersal to new habitats. *Journal of Plankton Research*. *Accepted*
47. Sassenhagen I., Sefbom J., Säll T., **Godhe A.**, Rengefors K. (2015) Dispersal limitation in microalgae: a journey through time rather than landscape. *Environmental Microbiology*. *Accepted*.