

Curriculum vitæ

for Anders Backlund, 650203-1476

- Nationality:** Svensk (Swedish)
- Date and place of birth:** 3 February 1965, Uppsala, Uppland, Sverige/Sweden.
- Marital status:** Married to Maria Backlund, born Larsson, since September 25th, 1993.
Two children, Elsa Backlund, born in January 1999, Sven Backlund, born in March 2001.
- Gymnasium exams:** Science and technology branch, Katedralskolan and Fyrisskolan, Uppsala 1984.VI.08
Gymnasium engineer, focus on electronics and computers, Fyrisskolan, Uppsala 1985.VI.07
- University exams:** Bachelor of Science, biology Fil. Kand. 1992.XI.11
Master of Science, systematic botany Fil. Lic. 1996.IV.24
Doctor of Philosophy, systematic botany Fil. Dr. 1996.XI.22
Docent in Pharmacognosy Doc. 2006.III.02
Professor in Pharmacognosy Prof. 2011.III.01
- Academic awards:** Swedish National Science Foundation
popular science award (for article) 1998
Fonden för Farmakognosi
popular science and outreach (for exhibitions etc.) 2007
Uppsala University Pedagogic Award 2015
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Present and previous position in Academia

- **Graduate student** at Dept. of Systematic Botany, Uppsala University 1991 - 1996
Financed by Uppsala University (salary) and a NFR grant to Prof. Kåre Bremer for studies of Asteridae evolution (material, labwork, travels, etc.).
Additional travelgrant from KVA (Royal Academy of Sciences) for fieldwork in Ecuador.
 - **Researcher** at Dept. of Systematic Botany, Uppsala Universitet 1997
Financed by a NFR grant to Prof. Kåre Bremer for studies of Asteridae evolution.
 - **Postdoctoral fellow** at Dept. of Genetics, Trinity College, Dublin 1997 - 1998
Financed by a scholarship for postdoctoral studies from NFR/STINT.
 - **Researcher** at Dept. of Molecular Biology, Swedish University for Agricultural Studies, Uppsala 1998 - 1999
Financed by a repatriation grant from NFR.
 - **Lecturer** at Div. of Pharmacognosy, Dept. of Medicinal Chemistry, Uppsala University 1999 - 2011
 - **Professor in Pharmacognosy** at Div. of Pharmacognosy, Dept. of Medicinal Chemistry, Uppsala University 2011 --
 - **Honorary Visiting Professor** at Kaohsiung Medical University, College of Pharmacy, Kaohsiung Medical University 2012 --
 - **Head of Division** at Div. of Pharmacognosy, Dept. of Medicinal Chemistry, Uppsala University 2015 --
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Supervision, hosting and teaching in research and research training

- **Assistant supervisor** for *Jesper Kårebed*, Dept. of Systematic Botany, thesis successfully defended 2002.
- **Supervisor** for *Petra Lindholm*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy, thesis successfully defended 2005.
- **Supervisor** for *Sonny Larsson*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy, thesis successfully defended 2007.
- **Assistant supervisor** for *Catarina Ekenäs*, Dept. of Systematic Botany, thesis successfully defended 2008.
- **Supervisor** for *Josefin Rosén*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy, thesis successfully defended 2009.
- **Supervisor** for *Elisabet Vikeved*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy,
- **Supervisor** for *Åke Ströse*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy,
- **Supervisor** for *Astrid Henz*, Dept. of Medicinal Chemistry, Div. of Pharmacognosy,
- **Supervisor** for *Kuei-Hung Lai*, 'dual degree' student – Dept. of Medicinal Chemistry, Div. of Pharmacognosy, and Graduate Institute of Natural Products, Kaohsiung Medical University

- **Host and project leader** for *Prof. Bai Genben*, from the Pharmacy College, Beijing University of Traditional Chinese Medicine, Beijing, China. supported by a grant from China Scholarship Council, visiting 2007.
- **Host and project leader** for *Dr. Patrik Muigg*, from the Department of Pharmacology and Toxicology at Leopold-Franzens University of Innsbruck, Austria. supported by a grant from the University of Innsbruck, visiting 2008.
- **Host and project leader** for *Doc. Adyary Fallarero Linares*, from the Department of Pharmacology and Toxicology at Åbo Academy, Finland. supported by a grant from the Academy of Finland, visiting 2011.
- **Host and project leader** for *Dr. Chen Yung-Husan*, from the National Museum of Marine Biology & Aquarium (NMMBA) in Pingtung, Taiwan. supported by a grant to A. Backlund from Ahlquist foundation, visiting 2013.
- **Host and project leader** for *Dr. Muaaz Al-Ajlani*, from the Faculty of Pharmacy, Israa University, Amman, Jordan. supported by a grant from ERASMUS-DuniaBeam, visiting 2014-2015.
- **Host and project leader** for *M.Sc. Yang Lu*, from Department of Complex Prescription of Traditional Chinese Medicine, China Pharmaceutical University, Nanjing. supported by a Chinese Government Scholarship from The China Scholarship Council, visiting 2015-2016.
- **Host and project leader** for *Dr. Rosa Buonfiglio*, from AstraZeneca R&D, Mölndal. supported by an ITN-grant from EU, MedPlant, visiting 2016.

Evaluation and opposition at dissertations

- Acted as appointed member of the **evaluation board** at:
 - Dissertation by *Niklas Wikström* for the degree of Doctor of Philosophy, at Stockholm University, Dept. of Botany 1999.V.26
 - Dissertation by *Martin Sjögren* for the degree of Licentiate of Philosophy, at Uppsala University, Dept. of Medicinal Chemistry 2004.XII.16
 - Dissertation by *Samira Garboui* for the degree of Licentiate of Philosophy, at Uppsala University, Dept. of Systematic Zoology 2006.XI.23
 - Dissertation by *Tatjana Haituna* for the degree of Licentiate of Medicine, at Uppsala University, Dept. of Neuroscience 2007.III.07
 - Dissertation by *Görel Sundström* for the degree of Licentiate of Medicine, at Uppsala University, Dept. of Neuroscience 2007.X.26
 - Dissertation by *Daniel Muthas* for the degree of Doctor of Philosophy, at Uppsala University, Dept. of Medicinal Chemistry 2009.IV.24
 - Dissertation by *Anneleen Kool* for the degree of Doctor of Technology, at Uppsala University, Dept. of Systematic Biology 2012.X.26
 - Dissertation by *Nizar Ali Enweij* for the degree of Doctor of Medicine, at Uppsala University, Dept. of Medical Biochemistry and Microbiology 2014.XII.12
- Acted as appointed **faculty opponent** at:
 - Dissertation by *Anne-Christine Scheen* for the degree of Doctor of Philosophy, at Oslo University (Norway), Dept. of Biology 2007.XII.18
 - Dissertation by *Astrid Kämmaste* for the degree of Doctor of Technology, at Royal Institute of Technology (KTH), Dept. of Organic Chemistry 2008.V.19
 - Dissertation by *Marie Danielsson* for the degree of Doctor of Technology, at Royal Institute of Technology (KTH), Dept. of Organic Chemistry 2011.IV.01
 - Dissertation by *Daniella Karlsson* for the degree of Doctor of Philosophy, at Åbo Academy (Finland), Dept. of Biosciences 2013.XI.20

Supervision and teaching of under-graduate students

Acted and acting as **supervisor** for **50+ students** in pharmacognosy up to – and including – Master in Pharmaceutical Sciences, (levels 'B' to 'D'), and external masters students from both national programs such as civil engineers, as well as international exchange students under ERASMUS or ULLA agreements.

Teaching during research training

As **graduate student** at Uppsala University, 20% of the time was spent on teaching for under graduate students on courses and in the lab. During the years 1991-96, I participated in approximately 1750 hours of teaching on the following courses:

- Organism biology 1992, 1993, 1994, 1995
- Floristics 1994
- General biology 1995, 1996
- Molecular evolution 1992, 1993
- Plant morphology and taxonomy 1994, 1995, 1996

Teaching as lecturer at the Div. of Pharmacognosy

Teaching has included a full position, with 70% teaching + 30% research, starting fall semester 1999. As **lecturer** at the Div. of Pharmacognosy, I have also acted as **Director of studies** 2001–2014, and have taught at, been **responsible** for, and **examiner** at, the following courses:

- Drug development from natural products, B 3p at Gothenburg University 1999-2003
- Pharmacognosy FK5, 6p (9 ECTS) at Södertörns College 2000-2002
- Pharmacognosy R3, 2.5p (4 ECTS) 2000-2002
- Continuation course in pharmacognosy, B 15 ECTS 2000-2006
- Origin, structure and analysis of drugs R3, 13,5 ECTS 2002-2014
- Degree thesis in pharmacognosy, C 15 ECTS 2002-2015
- Degree thesis in pharmacognosy, C 30 ECTS 2000--
- Degree thesis in pharmacognosy, D 30 ECTS 2002--
- Degree thesis in pharmacognosy, E 30 ECTS 2009--
- Pharmacognosy A5, 7.5 ECTS 2000--
- Global Pharmacy, 7.5 ECTS 2007--

Academic teaching award as lecturer at the Div. of Pharmacognosy

Spring semester 2005 I was awarded the **Pharmaceutical Students Union price** for student influence with the motivation: *"For the continued work with improvement of the course, and for his attention to the wishes and requests of the students."*

Spring semester 2015 I was awarded the **Uppsala University pedagogic price**.

Pedagogic and Administrative training, courses and seminars

To enhance and develop administrative, pedagogic and didactic skills, I have during my time at the Div. of Pharmacognosy – participated in, among other, the following courses & seminars:

- Training in graduate student supervision, Uppsala University (6 occasions) 2000
- Pedagogic course for university teachers, Uppsala University (12 days) 2001
- Leadership training spring semester 2002, Uppsala University (5 days) 2002
- Training for Directors of Studies, Uppsala University (6 days) 2004
- Uppsala University administrative leadership training (11+3 days) 2011-2012
- IT 3 examination and evaluation 1999.XI.26
- Format sets (css) on the web 1999.XII.15
- Techniques for presentations and talks 2000.III.23
- Course evaluations - a basis for course improvements 2000.III.30
- Studies in law and justice for teachers at the university 2000.X.18
- Training for supervisors in graduate studies at the scientific
domaine of Medicine and Pharmacy at Uppsala university 2004.IX.02
and from 2011.10.13 and until present, twice yearly planned and partly held this course myself
- Assessing quality in teaching 2008.XII.04
- Sustainable development integration in teaching 2011.V.07
- Web content management systems, InfoGlue 2012.III.06

Titles and names translated from Swedish

To further the pedagogic and didactic skills at the Dept. of Medicinal Chemistry, I have during my time as director of studies in pharmacognosy, on request from the Head of Department – myself planned and held, the following courses & seminars:

- Subjectrelated didactic skills development, pt. 1 2008.V.22
focus on future need of courses and course development in medicinal chemistry, 5h
- Subjectrelated didactic skills development, pt. 2 2009.VIII.28
focus on development of life-long learning for university teachers, 4h
- Subjectrelated didactic skills development, pt. 3 2011.XII.06
focus on library e-resources and virtual platforms for learning, 4h

I have also been an **invited lecturer** on more than 40 occasions, a selection of which is shown below, • = scientific, * = popular science and outreach.

- Institute of Systematic Botany, University of Zürich, Switzerland 1997.02.14
- Dept. of Molecular biology, Uppsala University 1997.07.18
- IBC XVI (16th International Botanical Congress), St. Louis, MO 1999.07.22
- ICNPR (International Congress on Natural Products Research), Phoenix, AZ 2004.08.04
- IBC XVII (17th International Botanical Congress), Wien, Austria 2005.07.22
- AstraZeneca R&D, Mölndal, Göteborg 2006.06.16
- * Svenska Institutet, visiting international science journalists, Linnés Hammarby 2007.05.22
- BCNP I (1st Brazilian Congress on Natural Products), Sao Paolo, Brazil 2007.11.01
- * Biodiversity under threat, Swedish Embassy, Washington, DC 2008.01.29
- 7th Joint meeting AFERP, ASP, GA, PSE & SIF, Athens, Greece 2008.08.04
- 50th Anniversary Meeting of ASP (the American Society of Pharmacognosy), Honolulu, HI 2009.06.30
- * Expedition Sweden, inspiration for high-school teachers, Uppsala, Sweden 2011.04.06
- IBC XVIII (18th International Botanical Congress), Melbourne, Australia 2011.07.29
- ECMNP-7 (7th European Conference on Marine Natural Products), Strömstad, Sweden 2011.08.15
- Trends in natural products research, Obergurgl, Austria 2013.07.25
- 62nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Guimarães, Portugal 2014.08.31
- * Emådalens Trädgårdssällskap och Högsby kommun, Högsby, Sweden 2014.10.13
- DNTI - Natural Products and Drug Discovery, Wien, Austria 2014.11.13
- ULLA lecture, Helsinki, Finland 2015.04.17
- * Vår tid på jorden, Malmö, Sweden 2015.10.05
- 16th ICE (International Conference on Ethnopharmacology), Yulin, China 2016.05.18

Administrative duties at the Academy & in Society – selection

- Chairman of the organizing committee for the fourth meeting of the NPSN-4 (Nordic Phylogenetic Systematists Network), Uppsala 1998
 - Director of studies in pharmacognosy 2001-2014
 - Member of the Academic Senate at Uppsala University 2002-2008
 - Member of the organizing committee for the ULLA-consortium summer school in Uppsala, as well as co-ordinator for one of the 13 themes 2004-2005
 - Part of the organizing committee for NNPC-2005 (Nordic Natural Products Conference), at Tjärnö marine biology laboratory 2005
 - Part of the organizing committee for *Materia Medica*, an international symposium on natural products research at Uppsala University 2007
 - One of three pedagogic members of resource for developing and improving the use of computers in teaching at the science domain of Medicine & Pharmacy at Uppsala Univ., MedFarm DoIT 2007-2010
 - Member of the research training committee (forskarutbildningskommittén) at the scientific domain of Medicine & Pharmacy at Uppsala University 2008-2011
 - Member of the board of Uppsala Center for Sustainable Development, as representative for the scientific domain of Medicine & Pharmacy at Uppsala University 2010--
 - Vice-chairman of the organizing committee for ECMNP-7 (European Conference on Marine Natural Products), Strömstad, Sweden 2011
 - Director of graduate studies at the Faculty of Pharmacy at Uppsala University 2011--
 - Acted as promotor for the Faculty of Pharmacy at the conferement ceremony, winter 2012 at Uppsala University 2012
 - Member of the ULLA-consortium Executive Committé 2012--
 - Chair of the organizing committee for NNPC-2015 (Nordic Natural Products Chemistry) at Uppsala University Campus Gotland. 2015
 - Assigned as expert scientific referee in patent cases by Domarnämnden (The Swedish national Courts Administration) 2015-2016
 - Vice chairman of the Research Training Committée at the scientific domain of Medicine & Pharmacy at Uppsala University 2016-
 - Acted as **referee of scientific manuscripts** for the journals:
 Plant Systematics and Evolution, Taxon, Brittonia, J. of Aquatic Diseases, Molecules, Molecular Phylogenetics and Evolution, Annals of Botany, Planta Medica, J. of Natural Products, and Phytochemical Analysis
 the latter where I am also on the editorial board since 2014.
 - Acted as **reviewer of applications for scientific grants** on assignment from:
 - FWF – Fonds zur Förderung der wissenschaftlichen Forschung, (Austrian National Science Foundation). 2000, 2005
 - FORMAS Forskningsrådet för miljö, areella näringar och samhällsbyggande (Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning) member of expert evaluation panel 2006-2007
 - NRF – the Singapore National Research Foundation 2008
 - Marsden Fund – a New Zealand national research foundation 2010
 - Rannís – the Icelandic Research Council member of expert evaluation panel 2013--2016
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