

## Curriculum Vitae

### Personal information **Catarina Björklund**

#### Work experience

*Sept 2022-present*

**Pharmaceutical assessor at the Swedish MPA**

In accordance with regulatory requirements and guidelines as well as legal regulations, critically assess the pharmaceutical quality of drugs based on the documentation submitted with the drug application for how the drug has been developed, manufactured and controlled.

*Sept 2019- Aug 2022*

**Technical officer at Swedish Chemicals Agency**

Inspector, enforcement of regulations on biocides and plant protection products. Contact with and supervision of companies that manufacture and place pesticides on the Swedish market. Procurement of analytical laboratories used in the enforcement projects.

*Sept 2015 - Jun 2019*

**Chemist at Swedish Chemicals Agency**

Assessment, with regards to physical and chemical properties, of applications for authorisation on pesticides, within the framework of EU regulations on biocides and plant protection products.

*Sept 2010 - Jul 2015*

**Research scientist, Medicinal Chemistry, Medivir AB Huddinge, Sweden**

Design and synthesis of protease inhibitors in various project e.g. Hepatitis C and MALT-1. Innovative synthesis descriptions for patenting.

*Aug 2004 - Oct 2009*

**Doctoral student, Dept. of Organic Chemistry, Stockholm University, Sweden**

Design and synthesis of BACE-1 inhibitors. Project planning, development of synthesis strategies, synthesis, analysis and characterisation, investigation of structural- activity relationship and summarizing the results. Taught as laboratory assistant in practical organic chemistry corresponding to one academic year. Planned and supervised diploma work.

#### Education and training

*Aug 2004 - Oct 2009*

**Ph. D studies, Dept. of Organic Chemistry, Stockholm University, Sweden**

Doctoral thesis: Design and synthesis of BACE-1 Inhibitors: Novel Compounds Targeting an Aspartic Protease Important in the Pathogenesis of Alzheimer's Disease. ISBN: 978-91-7155-933-3, Department of Organic Chemistry, Stockholm University, 2009.  
Courses in medicinal chemistry, advanced organic chemistry and physical organic chemistry.

*Aug 2001 - Jun 2004*

**Bachelor's degree in Organic Chemistry, Dept. of Organic Chemistry, Stockholm University, Sweden**

Basic courses in organic-, inorganic-, analytical-, physical-, and biochemistry. Courses at advanced level in organic chemistry. Diploma work in organic chemistry.

#### Additional information

##### Publications

**Design and synthesis of potent and selective BACE-1 inhibitors**

Björklund C, Oscarson S, Benkestock K, Borkakoti N, Jansson K, Lindberg J, Vrang L, Hallberg A, Rosenquist A, Samuelsson B.  
J Med Chem. 2010 Feb 25; 53(4): 1458-64. doi: [10.1021/jm901168f](https://doi.org/10.1021/jm901168f).

**Discovery of potent BACE-1 inhibitors containing a new hydroxyethylene (HE) scaffold: exploration of P1' alkoxy residues and an aminoethylene (AE) central core**

Björklund C, Adolfsson H, Jansson K, Lindberg J, Vrang L, Hallberg A, Rosenquist A, Samuelsson B.  
Bioorg Med Chem. 2010 Feb 15;18(4):1711-23. doi: [10.1016/j.bmc.2009.12.051](https://doi.org/10.1016/j.bmc.2009.12.051).

**P2' - truncated BACE-1 inhibitors with a novel hydroxyethylene-like core**

Meredith JA, Björklund C, Adolfsson H, Jansson K, Hallberg A, Rosenquist A, Samuelsson B.  
Eur J Med Chem. 2010 Feb;45(2):542-54. doi: [10.1016/j.ejmech.2009.10.041](https://doi.org/10.1016/j.ejmech.2009.10.041).

##### Projects

**Patent and patent applications**

*Research during PhD-studies in co-laboration with Medivir AB, Sweden*  
Amide derivatives as inhibitors of aspartyl proteases, WO/2008/119773  
Aspartyl protease inhibitors, WO/2008/135488

*Research Scientist at Medivir AB, Sweden*  
Novel Hepatitis C virus inhibitors, WO/2013/095275

Memberships

Other Relevant Information