

# Thomas Bjørnskov Poulsen

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## ***PERSONAL DATA***

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Date of Birth: June 17th 1979  
 Place of Birth: Horsens, Denmark  
 Nationality: Danish  
 Marital Status: Married, 4 children (Naja, Filucca, Lilja, Peter)  
 Language: Danish (native), English (fluent), German (basic)

## ***ACADEMIC APPOINTMENTS***

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2021-	<b>Professor</b> Department of Chemistry, Aarhus University
2017-21	<b>Associate Professor</b> Department of Chemistry, Aarhus University
2012-17	<b>Assistant Professor (Lundbeckfond Fellow Group Leader)</b> Department of Chemistry, Aarhus University
2011-13	<b>Independent post doc (DFF-Sapere Aude 1),</b> Department of Chemistry, Aarhus University

## ***EDUCATION***

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2008-2010	<b>Lundbeckfonden Postdoctoral fellow</b> Harvard University, Cambridge-MA, USA (Advisor: Prof. Matthew D. Shair)
2003-2008	<b>Ph.D. Chemistry</b> Aarhus University, Aarhus, Denmark (Advisor: Prof. Karl Anker Jørgensen)
2000-2006	<b>M.Sc. Chemistry (GPA 12.1/13.0)</b> Aarhus University, Aarhus, Denmark
2000-2003	<b>B.Sc. Chemistry (GPA 12.3/13.0)</b> Aarhus University, Aarhus, Denmark
2000	Military Service, Queens regiment, Aalborg, function: APC-commander.
1996-1999	High School graduate, Viborg

**AWARDS, GRANTS (MAIN PI), FELLOWSHIPS, HONORS**

2020	IFD Innoexplorer grant (202K Euro, 1 year)
2020	Carlsberg foundation, research infrastructure grant (134K Euro)
2020	NNF-Bioinnovation Institute PoC grant (134K Euro, 1 year)
2020	Torkil Holm prize
2019	ERC consolidator grant (2.26M Euro, 5 years)
2019	Novo Nordisk Foundation – Exploratory pre-seed grant (134K Euro, 1 year)
2019	DFF Research project 1 grant (385K Euro, 3 years)
2019	NNF Ascending Investigator grant (1.34M Euro, 5 years)
2017	Carlsberg Foundation’s Distinguished Assoc. Prof. Fellowship (582K Euro, 4 years)
2016	DFF - Sapere Aude 2 grant (940K Euro, 4 years)
2016	Novo Nordisk Foundation – Exploratory pre-seed grant (66K Euro)
2015	Carlsbergfoundation instrument grant (27K Euro)
2015	Danish Cancer Society, Research Grant (85K Euro, 1 year)
2015	Selected for EUChemS Young Investigator Workshop
2014	Carlsbergfoundation instrument grant (14K Euro)
2014	Distinguished Presenter Award, 10th CMIOT conference, Shanghai
2013	Carlsbergfoundation instrument grant (17K Euro)
2013+2015	Thieme Chemistry Journals Award
2012	Carlsbergfoundation instrument grant (60K Euro)
2012-2017	Lundbeckfond Fellow Junior Group Leader (1.34M Euro, 5 years)
2011-2016	Member of Danish Young Academy under The Danish Royal Academy of Sciences and Letters (2012 board member, 2013 vice-chair)
2011-2013	Danish Cancer Society, Research Grant (120K Euro, 2 years)
2010-2013	DFF – Sapere Aude 1 grant (310K Euro, 2.5 years)
2009	AUFF PhD Award (1 in 5 recipients of all 2008 graduates, 50K Euro)
2008-2010	Lundbeckfoundation Postdoctoral fellowship, Harvard (125K Euro, 2 years)
2008	Lundbeckfoundation talent award (75K Euro)
2008	Danish Chemical Society Award: Best PhD dissertation 2008 (OrgChem)
1999	Highest GPA Award (3G), Viborg Katedralskole, Viborg
1998	Highest GPA Award (2G), Viborg Katedralskole, Viborg

**MANAGEMENT - SUPERVISION OF STUDENTS (Active and completed)**

Since 2011      8 post docs, 12 PhD students, 22 master students, 32 bachelor students.

**COMMISSIONS OF TRUST**

2021-	Member, Leadership team, Chem-AU
2020-	Member of Board, Hakon Lund foundation
2020-	Member, Project review committee, Open Discovery Innovation Network (ODIN)
2019-	Member, PhD committee, Chem-AU
2014-18	Member of Board, Danish Chemical Society – Section for Organic Chemistry.

2013- Co-Initiator, coordinator, and contributor: *Challenges in Chemistry*: Undergrad Talent programme, Chem-AU

Peer-Reviewer: Nature Chemistry, Nature protocols, Angewandte Chemie, Cell Chemical Biology, Journal of Medicinal Chemistry, Journal of Organic Chemistry, Chemistry – A European Journal, Chemical Communications, Tetrahedron, BMC, Organic and Biomolecular Chemistry

Theses: External opponent on 13 PhD dissertations in Denmark and abroad

Positions: Acted as head, internal and external member of assessment committees on Assistant Professor and Associate Professor positions at AU and other Danish Universities

### **RESEARCH INTERESTS**

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Organic chemistry, complex molecule synthesis, small molecule target identification, chemical genetics, cell and molecular biology, cancer biology

### **TEACHING EXPERIENCE AND QUALIFICATIONS**

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**2018- Medicinal Chemistry II – Chemical Biology and Biosynthesis** (10 ECTS graduate, AU):  
Course initiator, responsible and main lecturer.

**2018- Organic Chemistry V – Advanced Reactions and Total Synthesis** (10 ECTS graduate, AU):  
Course responsible and lecturer.

**2012-17 Chemical Biology** (5 ECTS graduate, AU):  
Course initiator, responsible and main lecturer.

**2012-17 Adv. Reactions in Organic Chemistry** (5 ECTS, graduate, AU):  
Course responsible and main lecturer

- **Invited Speaker** Chemical Biology & Combinatorial Methods, PhD-course at Copenhagen University

### **BIBLIOMETRY**

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**50 peer-reviewed research papers and reviews (6)**, 1 commentary in *Nat. Chem.*

10 papers as first author, **25 as corresponding author**

**Average journal impact factor (JIF)** of papers published as **corresponding author = 10.0**

(Use JIF of the year prior to publication, e.g. JIF from 2019 for papers published in 2020)

**>3100 citations** (GS); >2300 citations (WoS).

**H-index: 22 (GS), i10-index: 35 (GS), 16 papers with >50 citations (GS),  
5 journal covers/ frontispieces.**

### **PATENTS AND PATENT APPLICATIONS**

European Patent Application 19213635.6 Compounds for treatment of hypoxic cancers, 4-12-2019

European Patent Application 20205938.2 Title Confidential, 5-11-2020

### **PRESENTATIONS**

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**26 presentations at international conferences and departmental seminars, 22 invited, 3 keynote/plenary lectures**

- 22 Apr 2021** Universität Münster (Virtual), Münster, Germany, *Chemistry and Biology of Electrophiles and Ionophores*, **Invited departmental seminar**
- 15 Apr 2021** Acc. Chem. Res - Special issue on total synthesis of natural products, (Virtual Symposium), *Total synthesis of natural products containing enamine or enol ether derivatives*, **Invited lecture**
- 19 Nov 2020** Department of Organic Chemistry - University of Geneva (Virtual), Switzerland, *Expanding the antibacterial selectivity of polyether ionophores through synthesis*, **Invited departmental seminar**
- 31 Jan 2020** Torkil Holm Symposium 2020, Copenhagen, Denmark, *Understanding and enhancing the biological activities of electrophiles and ionophores*, **Award lecture**
- 24 Jan 2020** Arrhenius Laboratory, Stockholm University, Sweden, *Understanding and enhancing the biological activities of electrophiles and ionophores*, **Invited departmental seminar**
- 12 Dec 2019** Chemical Biology and Physiology Conference – 2019, Portland, OR, USA *Chemistry and Biology of Unorthodox Protein-Reactive Electrophiles*, **Selected - Flash-talk**
- 9 Dec 2019** Department of Chemistry & Chemical Biology, Harvard University, Cambridge, USA, *Chemistry and Biology of Freak Electrophiles and Hybrid Ionophores*, **Invited departmental seminar**
- 4 July 2019** Symposium: Chemical Strategies for Targeting and/or Labeling Proteins, Copenhagen University, Denmark, *Chemistry and Biology of Freak Electrophiles and Hybrid Ionophores*, **Invited lecture**
- 24 Jan 2019** Max Planck Institute for Molecular Physiology, Dortmund, *Chemical genetics with small (and very small) molecules*, **Invited departmental seminar**
- 14 Jan 2019** LEO pharma, Synthesis of Bioactive Natural Products and Analogs, **Invited lecture**
- 10 Sept 2018** 24<sup>th</sup> conference on isoprenoids, Bialystok, Poland *Synthesis of the strongylophorines*, **Invited plenary lecture**
- 2 Jul 2018** Albert-Ludwigs-Universität Freiburg, *Synthesis of Bioactive Natural Products - Towards New Therapeutic Targets*, **Invited Organisch-Chemisches Kolloquium**

- 18 Jun 2018** National meeting – Swedish chemical society, Lund, Sweden, *Natural products guiding the search for new therapeutics*, **Invited keynote lecture**
- 3 May 2018** Leopold-Franzens-University Innsbruck, *Natural Products Guiding the Search for New Therapeutic Targets*, **Invited departmental seminar**
- 2 Aug 2017** Gordon Research Conference – Natural Products and Bioactive Compounds, Andover-NH, USA, *Chemistry and Biology of the APD-CLD Natural Products*, **Selected - Flash-talk**
- 6 Jun 2017** SLAS Nordic Chemical Biology Meeting, Copenhagen University, *Chemistry and Biology of the APD-CLD Natural Products*, **Invited lecture**
- 13 Oct 2016** Organic Chemistry Mini-symposium, Copenhagen University, *Natural Products Guiding the Search for New Cancer Targets*, **Invited lecture**
- 1 Sept 2016** EMBO conference: Chemical Biology 2016, *Chemistry and Biology of the APD-CLD class of Hypoxia-Selective Natural Products*, **Selected - Flash-talk**
- 25-29 Jul 2015** ASP 2015 Annual Meeting – The Brave New World of Natural Product Total Synthesis, Colorado-USA, “*Total Syntheses of Rakicidin A and BE-43547A<sub>1</sub>*”, **Invited lecture**
- 9-11 Jul 2015** EUChEMs Young Investigator Workshop, Aveiro-Portugal, “*Synthetic Studies of Rakicidin A and BE-43547A<sub>1</sub>*”, **Invited lecture**
- 6-8 Nov 2014** 10th Chinese Conference of Minimally Invasive Therapy in Oncology, Shanghai-China, “*Bioactive natural products guiding the search for new cancer targets*”, **Invited lecture**
- 10-14 Aug 2014** 248<sup>th</sup> ACS National Meeting, San Francisco-USA “*Investigations into the total synthesis and mechanism-of-action of a new class of anticancer depsipeptides*” **Selected lecture**
- 25 Jun 2013** Max Planck Institute for Molecular Physiology, Dortmund-Germany, “*Searching for New Cancer Targets Through Studies of Bioactive Natural Products*”, **Invited departmental seminar**
- 13 Mar 2013** TOPBIO workshop, Aarhus-Denmark, “*Using the sniper rifle or the pump gun to perturb cell behavior: travelogue from a grand tour into the possibilities of two-photon irradiation*”, **Invited lecture**
- 26-29 Sep 2012** EMBO conference on Chemical Biology, Heidelberg-Germany, “*Mechanistic studies on the anti-tumoral natural product rakicidin A*”, **Selected - Poster**
- 29 June 2012** Dept. of Chemistry, Copenhagen University, “*Discovering the anti-cancer Targets of Tomorrow*”, **Invited departmental seminar**
- 12-14 Sep 2011** Danish Cancer Society Symposium 2011, Copenhagen-Denmark, “*Identification of OSBP as the Cellular Target of Diverse Tumor Cell Selective Natural Products*”, **Selected - Poster**
- 17 Aug 2011** Discovery Chemistry & DMPK, H. Lundbeck A/S, Copenhagen-Denmark, “*Discovery of Oxysterol Binding Proteins as Targets of Tumor Cell Selective Natural Products*”, **Invited lecture**

- >20 presentations and posters by PhD-students and post docs at international conferences

**DISSEMINATION AND RESEARCH POLICY**

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- 30 Oct 2018** Public Science Lecture Series, Aarhus University – *Natures' useful killer molecules*
- 9 May 2018** Lecture in Folkeuniversitetet (Emdrup) – *Cancer drugs from Nature*
- 30 Nov 2017** Lecture in Folkeuniversitetet (Aarhus) – *Cancer drugs from Nature*
- Mar 2017** Popular article in “Dansk Kemi”: N. L. Villadsen, K. M. Jacobsen, T. Tørring, **T.B. Poulsen**, *Unikke naturstoffer dræber resistente cancerceller*
- 9 Oct 2015** Commentary in Berlingske tidende “*Forskning på smalkost*”
- 21 Jun 2014** ESOF-2014, Copenhagen-Denmark, “*To be or not to be too many PhDs: What is a PhD for?*” **Co-organizer of career-session**
- 4 Jun 2014** Altinget-web portal, popular science/opinion article “*Molecular precision bombs: Can we afford the chemotherapy of the future*”, **Invited contributor**
- 15 May 2014** National PhD-networking seminar, AU, “*Should you gamble with your career during your post doc*”
- 3 May 2013** National Research Day – Royal Danish Academy of Sciences, “*The Chemotherapy of the Future: Where should we search?*”, **Tag-team lecture with Prof. Kristian Helin (BRIC-Copenhagen University)**
- 25 Apr 2013** Chronicle in Weekendavisen “*Vi kan skabe en elite på universiteterne*”
- 12 Mar 2013** Speech at research policy meeting, Royal Danish Academy of Sciences and Letters, “*Elite for Alles Skyld*”
- 11 Oct 2012** Feature paper in UniAvisen “*Om Unge forskeres Karriereveje*”
- **Co-organizer** of the Danish Young Academy **National PhD-networking seminar**: 2014 and 2016
  - **Our research has been featured by**: DR-P1 (Videnskabens verden), DR-Viden, P3-nyheder, Ingeniøren, Rømer (AU-newsletter), Danish Cancer Society, Carlsbergfoundation.