

Horizon 2020

Grant Agreement no: 829157

TopSpec

Project Deliverable Report

D8.2 Draft Exploitation and Dissemination Plan

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EXECUTIVE SUMMARY



This document provides an overview of the planned dissemination and exploitation activities for the TopSpec project, funded by the European Commission under Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020), Grant Agreement number: 829157

TopSpec is a three-year project that started in January 2019, with a one-year extension granted due to COVID pandemic disturbance It aims to develop a ground-breaking TOPdown tandem mass SPECtrometry (MS/MS) platform to solve the challenge of unravelling the sequence repertoire of human antibodies and their respective antigens.

The TopSpec consortium comprises 8 participants from 7 countries who bring together a mix of stakeholder organisations and corresponding expertise. The participants include instrument manufacturers, technology SME's, universities and research institutes.

In this document, which is a Deliverable in WP8 titled 'Dissemination, Communication & Exploitation', the dissemination and exploitation activities are described.

This report contains Annexes that are indicative of how the dissemination and exploitation are kept track of by the project consortium. Annexes 1 and 3 was intended to be treated as 'live' document throughout the duration of the project to reflect the most up to date information, accessible from the TopSpec website for all project collaborators. However, Remco Swart, MS VISION, left the project shortly after this document was prepared and no new person was assigned to ensure that it would be up to date. However, the TopSpec website has been used and updated regularly, hence fulfilling the purpose of this document.

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1 Project background

TopSpec is a three-year project that started in January 2019. The project was extended by one year due to COVID pandemic, making it a four-year project (without additional financing). A major and growing challenge in the EU health system is the cost of drugs and targeted therapies. Reducing time taken to develop novel therapies will reduce costs to the health system. To address this grand challenge, it is imperative to better understand how the human organism defends itself against diseases. The biggest mystery is the human immune system and understanding this ultimately requires knowledge of the sequence repertoire of human antibodies and their respective antigens.

The purpose of the TopSpec project is to be the first in the world aiming to solve this challenge, opening up opportunities in medical research and drug development that are today only dreamt about. We will create a breakthrough technology that will revolutionize academic, clinical and industrial proteomics and dramatically advance the development of new generation antibody- and protein-based therapeutics.

This complex and ambitious project brings together 8 participants from 7 countries and funded by the European Commission under Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020), Grant Agreement number: 829157.



2 Introduction

The Exploitation and Dissemination Plan describes activities that are aimed to i) ensure successful uptake for the TopSpec technologies, ii) integrate all technologies developed in work packages 1-7 into a TopSpec platform and iii) apply the integrated TopSpec platform for Abs analysis.

This draft document describes dissemination and exploitation activities that have been completed or planned for project TopSpec. In the early phase of the project the emphasis is on the dissemination of the project and its results. For the following project duration the value of the obtained knowledge and technology will be exploited. The following type of dissemination activities are taken into consideration:

- TopSpec website and social media achieved
- Scientific presentations achieved
- Scientific publications achieved
- Conferences achieved
- Tradeshows **achieved**
- Patent applications achieved
- Collaborations **achieved**

The communication and dissemination of results can be categorized according to the target audience group. In the table below the targeted audience groups are listed and the planned communication/dissemination actions given. In the third column "Accomplished" it is indicated which of the target groups have been reached over the course of the project.

Target groups	Communication/Dissemination action	Accomplished
Website	Publicly accessible website with a closed partner access section.	Yes
Proteomics research community	Collaborations, scientific reports. Open access publication in relevant journals such as: Analytical Chemistry, J American Society for Mass spectrometry, J Am Chem Soc, Molecular & Cellular Proteomics, J of Proteomics, Nature Methods and Nature Biotechnology	Yes
Young scientists	Young scientists will be encouraged and promoted. Exchange of young researchers will be organised. Summer schools and workshops.	Yes
Healthcare providers	Focused meetings to bring technology developers and end users together. Video demonstrations accessible through YouTube and through partner websites	-
Diagnostics and pharma industry	Ongoing collaboration with Amgen, Astra-Zeneca, Bayer, Sanofi, other EU (bio)pharma companies. International conferences: Bio, EuPA and HUPO meetings, IMSC and ASMS, European FTMS, BIT congresses, PittCon, Analytica. National meetings, CASSS-meetings.	Yes



General public	Information through website, social platforms (LinkedIn,	Yes
and broader	Twitter) mass media (newspapers, TV, radio) popular	
audience	science journals, press releases. Open exhibitions.	

3 Dissemination of results

This section describes the activities and tools to communicate and disseminate foreground results of project TopSpec. During the course of the project, as well as after its completion, the available foreground knowledge will increase and thereby also the communication and dissemination activities.

3.1 TopSpec public website and social media

Under WP8, a project webpage (<u>https://topspec.ki.se/</u>) has been designed and launched. The TopSpec website contains current information related to the project, news, obtained results and organized/attended events and will be updated on a regular base. Further is contains the following information:

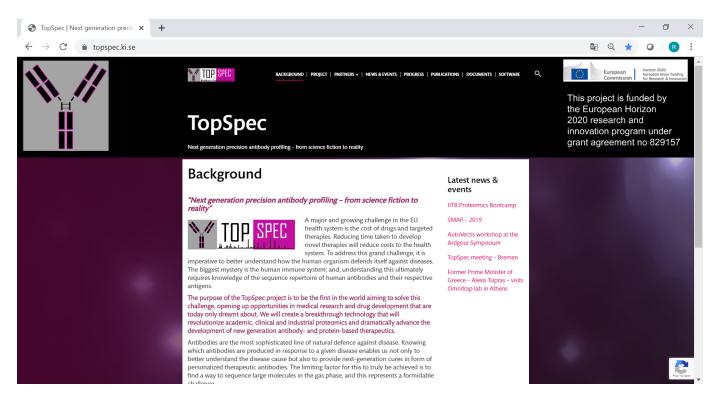
- Description of project
- Individual work-packages
- Public documents
- Objectives and milestones
- Profile of researchers and project partners
- Events related to the project implementation

The project webpage contains the following clause: "This project is funded by the European Horizon 2020 research and innovation program under grant agreement no 829157." The website is actively maintained and updated using materials from events organized by the collaboration partners, delivered lectures, workshops. All reports that have the "PUBLIC" status can also be found on the webpage.

To make the project more visible a logo of the project has been designed and uploaded to the project webpage. This logo will be used in all public communication activities (tradeshows, presentations).

The TopSpec webpage has been regularly updated during the course of the project in the public sections "News&Events", "Progress" and "Publications&Patents", as well as in the password protected "Documents" section. Up to this date the project webpage has been visited by approximately 20 000 visitors.





Besides the website, a Twitter and a LinkedIn project account have been created with the following links:

https://topspec.ki.se/

https://twitter.com/TopSpecMS2

https://www.linkedin.com/company/topspecms/

3.2 Scientific presentations

In total, 19 scientific presentations (seminars and posters) have been delivered by the TopSpec collaboration partners as described in the deliverable $\underline{D8.4}$ "Public Demonstration of TopSpec Technology".

3.3 Scientific publications

Result obtained in the TopSpec project have been and will be published in scientific journals in the field of analytical chemistry. In case technology requires patent protection the publication cycle may be delayed. The articles have been and will be published in open access publication in relevant journals:

- Analytical Chemistry,
- J American Society for Mass spectrometry,
- J Am Chem Soc
- Molecular & Cellular Proteomics



- J of Proteomics,
- Nature Methods
- Nature Biotechnology

Publications do and will consist of the clause in the acknowledgements section:

"This project is funded by the European Horizon 2020 research and innovation program under grant agreement no 829157."

In total, 12 publications have been delivered by the TopSpec collaboration partners as described in the deliverable $\underline{D8.5}$ "Scientific reports and publications".

Publications are also listed on the <u>TopSpec homepage</u>.



3.4 Conferences

The results and data from project TopSpec will be presented at industrial and academic conferences, user meetings, immunology, proteomics and MS conferences. In total, 12 conferences have been attended and the TopSpec project promoted by the partners as described in deliverable <u>D8.4</u> "Public Demonstration of TopSpec Technology".

3.5 Tradeshows

Dissemination of foreground results at fairs and international tradeshows such as ASMS, Analytica, and IMSC have been accomplished. In order to promote the TopSpec project among the scientific community at conferences and meetings we have created a <u>Banner</u>.

3.6 Patent applications

In the course of the project that the foreground knowledge has been generated. The project consortium is striving to obtain patent protection of inventions/solutions which may result in business opportunities taken up by one or more collaboration partners. The IP strategy as well as the dissemination of foreground knowledge has been described detail in in deliverable D8.1 TopSpec Intellectual Property Protection Strategy.

Similar to other results of the TopSpec project, patent applications should consist of the following clause in the acknowledgements section: "This project is funded by the European Horizon 2020 research and innovation program under grant agreement no 829157."

In total, up to now, 4 main patents have been accomplished and are listed at the TopSpec webpage.

3.7 Collaborations

It is expected that the resulting technology will be of the utmost importance to researchers that are tasked to identify protein structures and interactions. In order to access the potential of the technology we have organized demonstration workshops for selected stakeholders. They have been and will be invited to analyze project results in order to evaluate the scientific relevance, performance and transferability of the technology. Existing research partners in industry and academia have been invited to such workshops. In the 4th column "Accomplished" it is indicated which of the collaborations have been reached over the course of the project. Importantly, several high profile PIs have shown interest in the TopSpec technology and the promotion of the technology will continue beyond the timeline of the project deadline. Furthermore, Fasmatech has entered into agreements with MSVision (EU) and Zefsci (US) to support and market the omnitrap technology.

Investigator	Institution	Country	Achieved
Dr. Sophia Hober	Swedish National Centre for Biological Mass Spectrometry (Bio-MS)	Sweden	
Prof. Michael Nielsen	Proteomics centre of the Copenhagen University	Denmark	
Prof. Frank Kjeldsen	Proteomics centre, University of Southern Denmark, Odense	Denmark	
Dr. Kim Haselmann	Protein analysis laboratory of Novo Nordisk AS, Copenhagen	Denmark	



Dr. Pavel Bondarenko	Protein analysis laboratory of Amgen	USA	
Dr. Bogdan Budnik	Wyss Institute, Harvard University	USA	Yes
Dr. Chris Adams	Bruker	USA	Yes
Dr. Kathrin Breuker	Top-down protein analysis laboratory of Innsbruck University	Austria	
Prof. Dr. Catherine Costello	Glycoproteomics laboratory at Boston University	USA	Yes
Dr. Logan C. Mackay	Scottish Instrumentation and Resource Centre for Advanced Mass Spectrometry University of Edinburgh	UK	Yes
Prof. dr. Manfred Wuhrer	Leiden University Medical Center	Netherlands	
Prof. Dr. Joseph A. Loo	University of California	USA	Yes
Dr. Laure Menin	Swiss Federal Institute of Technology	Switzerland	Yes



4 Exploitation of results

The objective of the TopSpec project is to develop a ground-breaking top-down tandem mass spectrometry platform to solve the challenge of unravelling the sequence repertoire of human antibodies and their respective antigens. Thus, the activities within the project required tools to be developed by the participants and/or third parties and then integrated into a comprehensive and customised platform. TopSpec is set to greatly expand our knowledge of the human immune system, which may have a dramatic impact on the field of personalized, precision medicine. TopSpec may facilitate the development of new diagnostics and treatments for infectious diseases including global diseases and the problem of treatment resistance, ageing related diseases (e.g., AD) and other big killer diseases. Another significant impact will be in the field of MS instrument design. Specific impacts:

- Increase in the speed of diagnosis and in the speed of drug development
- Increase knowledge on an individual's antibody response to disease
- Contribute to the growth and expansion of 4 European SMEs
- Expand scientific research around proteomics
- Create new business opportunities within and outside the project

Expected results from the TopSpec project are summarized in the table below. In the 5th column "Accomplished" it is indicated which of the expectations have been reached over the course of the project.

Expected Result	Target Industry	Use within the project	Use outside the project	Accomplished
Novel MS/MS platform	MS instrumentation	Adopted by TF	Adopted by other MS manufacturers	Yes (within project)
Top-down Ab sequencing assay	Biotechnology, Clinical diagnostics	Proof of principle, biomarkers of AD and bacterial infection	Quality control in mAb production, biosimilars and biobetters, clinical diagnostics	Yes (within project)
Library of Ab repertoire as immune system response to challenge	Immunology, Bioinformatics	Proof of principle	Large EU projects to collect Ab sequence libraries for specific diseases	-
Top-down data analysis software	Analytical, biotechnology, pharmaceutical	Proof of principle	Open source and commercial versions for industrial and academic analytical scientists	Yes
Novel data acquisition and realtime data processing system	MS instrumentation	Adopted by Spectroswiss	Adopted by other MS manufacturers, including TF	Yes (within project)

The project partners are keen to bring the technology to the market. This can be as a complete LC-MS platform for antibody sequencing including hardware, software and consumables. Also the possibility to commercialize parts of the developed technology will be explored. The strategy to commercialize products and services will be discussed in a dedicated workshop with TopSpec project partners. The TopSpec partner, SPS, acquired the FET Innovation Launchpad funding (project A2MSTools, number 101034703, Tools to access and analyze unreduced mass spectrometry data to accelerate access to biotherapeutics) to establish the market viability of selected hardware and



software solutions developed within the initial period of the TopSpec project. The A2MSTools project was successfully completed and reports accepted by the EU commission. Other TopSpec consortium partners, have submitted an EIC Transition proposal (AURORA) and reached the interview stage. Other applications are planned for 2023, including for the EIC Transition and Booster projects. Ultimately, the TopSpec consortium will apply for the EIC Accelerator funding, once the TRLs will be increased to the corresponding levels.

Based on the market potential of the foreground technology and its application a detailed business strategy document was prepared and published (CONFIDENTIAL) for the consortium partners, detailing the market size and potential. See for more details task 8.7 in annex 3.

5 Concluding remarks

This deliverable provides a draft plan for communication, dissemination and exploitation of the foreground results.



Annex 1

TopSpec Consortium exploitation and dissemination activity tracker

			Type of			Date of		
Person	Institution	Activity	activity	Status	Result	completion	Comments	Link (DOI)
	Nottingham							
	Trent University,	Disseminatio	Promotional	In-				
David Kilgour	UK	n	collateral	progress				
	Karolinska			P0				
	Institutet,							
Susanna	Stochholm,	Disseminatio	Website	In-				
Lundström	Sweden	n	contribution	progress				https://topspec.ki.se/
	Karolinska							
Susanna	Institutet, Stochholm,	Disseminatio		In-				
Lundström	Sweden	n	Twitter post	progress				https://twitter.com/topspecms2
Lunustronn	Sweden		i witter post	progress			MS	<u>https://twitter.com/topspeeinsz</u>
							analysis of	
							polyclonal	
							antibodies – the	
	Karolinska		:				ultimate	
Susanna	Institutet, Stochholm,	Disseminatio	Presentation at scientific	Complete			challenge and reward", Ardgour	
Lundström	Sweden	n	conference	d			Symposium	
Lunustronn	Nottingham		conterence	u			Created	
	Trent						promotional	
	University,	Disseminatio	Promotional	Complete			banner for	https://topspec.ki.se/wp-content/uploads/sites/101/2023/01/TopSpec-pull-up-
David Kilgour	UK	n	collateral	d		3-12-2019	TopSpec	banner-simple-v5-20200116-1.pdf
							Monitoring	
							glycation levels of	
							a bispecific monoclonal	
							antibody at	
							subunit level by	
	Nottingham						ultrahigh-	
	Trent						resolution MALDI	
	University,	Disseminatio	Peer-reviewed	Complete	Publishe		FT-ICR mass	
David Kilgour	UK	n	publication	d	d	21-10-2019	spectrometry	https://doi.org/10.1080/19420862.2019.1682403

							Taught at MS	
							Proteomics	
							Bootcamp	
							Workshop at IITB	
	Nottingham						in Mumbai.	
	Trent						Discussed	
	University,	Disseminatio		Complete	Publishe		TopSpec Project	
David Kilgour	UK	n	Workshop	d	d	28-9-2019	with attendees.	https://topspec.ki.se/new-events/
							Presented aspects	
							of top-down	
							sequencing	
	Nottingham						software	
	Trent						development at	
	University,	Disseminatio		Complete	Publishe		Ardgour	
David Kilgour	UK	n	Workshop	d	d	20-9-2019	Symposium	https://topspec.ki.se/new-events/
	UN		workshop	u	u	20-5-2019	Demo lab	
							established in	
	Fasmatech,						Athens for top-	
Dimitric	-			In			· · · · ·	
Dimitris	Athens,	Funda itatian		In-		Dunning	down analysis of	
Papanastasiou	Greece	Exploitation		progress		Running	proteins	
							Main article	
							introducing the	
							first results	
							achieved by the	
							omnitrap for the	
							analysis of light	
							chains extracted	
Julia Chamot-	IP, Paris,	Disseminatio	Peer-reviewed	In-			from clinical	
Rooke	France	n	publication	progress			samples	
							Keynote lecture at	
							the	
							ProteoVilamoura	
							meeting in which	
							Omnitrap results	
							on light chains	
			Presentation				have been	
Julia Chamot-	IP, Paris,	Disseminatio	at scientific	Complete			presented for the	https://topspec.ki.se/wp-content/uploads/sites/101/2023/01/20220511-
Rooke	France	n	conference	d		11/05/2022	fist time	Proteovillamoura-ChamotRooke-reduced.pdf
							Bottom-up	
							requirements for	
							big data David	
	Nottingham						Kilgour	
	Trent		Presentation				(Nottingham	
	University,	Disseminatio	at scientific	Complete	Publishe		Trent University,	
David Kilgour	UK	n	conference	d	d	1/31/2020	UK)	https://kuleuvencongres.be/htc16/programme
David Kilgoul	UN		conterence	~	~	1, 31/2020	010	nteps// kareaveneongres.be/ nte10/ programme

	Nottingham						You tube video	
	Trent						decribing some	
	University,	Disseminatio		Complete	Publishe		output of NTU	
David Kilgour	UK	n	Video/Film	d	d	21/10/2022	progress	https://youtu.be/cypEkw9Fhuc
	Nottingham						You tube video	
	Trent						decribing some	
	University,	Disseminatio		Complete	Publishe		output of NTU	
David Kilgour	UK	n	Video/Film	d	d	21/10/2022	progress	https://youtu.be/LDTgg1gk_qQ
Davia kiigoai	UN		viaco, i iiii	ŭ	ŭ	21/10/2022	2x Posters on	
	Nottingham						protein	
	Trent						fragmentation	
		Discominatio	Dector	Complete	Dublicho			
Devid Kilmeyer	University,	Disseminatio	Poster	Complete	Publishe	20/0/2022	and analysis at IMSC	
David Kilgour	UK	n	presentation	d	d	28/8/2022		
							Advertisement for	
							TopSpec on	
Jonathan	IP, Paris,	Disseminatio	Website	Complete			website of Institut	
Dhenin	France	n	contribution	d			Pasteur	
							Advertisement for	
							TopSpec at	
			Presentation				SMAP2019,	
	IP, Paris,	Disseminatio	at scientific	Complete			Strasbourg,	
Mathieu Dupré	France	n	conference	d		9/17/2019	France	
							Advertisement for	
							TopSpec to the	
							committee of	
							Region Ile-de-	
							France	
							responsible for	
							project	
			Promotion of				investments in	
		.	project in	.			human health and	
Julia Chamot-	IP, Paris,	Disseminatio	other	Complete			infectious	
Rooke	France	n	meetings	d		12/6/2019	diseases	
							Advertisement for	
							TopSpec at	
							Journées	
			Presentation				Utilisateurs	
Julia Chamot-	IP, Paris,	Disseminatio	at scientific	Complete			Orbitrap, Paris,	
Rooke	France	n	conference	d		12/3/2019	France	
			articipation in				Advertisement for	
			activities				TopSpec during	
			organised				the kick-off	
			jointly with				meeting of EPIC-	
Julia Chamot-	IP, Paris,	Disseminatio	other H2020	Complete			XS, Amsterdam,	
Rooke	France	n	project	d		25-26/04/2019	Netherlands	
	unec		p.0j000	~		20 20,0 1,2010		

							Advertisement for	
							TopSpec to	
			Promotion of				multiple pharma	
			project in				companies	
Julia Chamot-	IP, Paris,	Disseminatio	other	Complete			(potential	
Rooke	France	n	meetings	d		4/10/2019	collaborators)	
							1st European Top-	
			Organisation				Down Proteomics	
Julia Chamot-	IP, Paris,	Disseminatio	of a	Complete			Symposium, Paris,	
Rooke	France	n	conference	d		12-14/02/2019	France	
							Electronic /	
	Karolinska						Research and	
	Institutet,		Presentation				Innovation	
	Stochholm,	Disseminatio	at scientific	Complete			Summit, Summer	
Roman Zubarev	Sweden	n	conference	d		15/6/2021	2021	
	Karolinska					, -,	Electronic / High-	
	Institutet,		Presentation				tech medicine -	
	Stochholm,	Disseminatio	at scientific	Complete			Summer school -	
Roman Zubarev	Sweden	n	conference	d		3/8/2020	PhysBio	
Noman Zubarev	Sweden		conterence	u		5/0/2020	Electronic/	
							Workshop on	
	Karolinska						Interaction	
	Institutet,		Presentation				between	
	Stochholm,	Discominatio	at scientific	Complete			Proteins/Cells and	
Roman Zubarev	Sweden	Disseminatio n	conference	Complete d		18/6/2021	Materials	
Koman Zubarev		11	conterence	u		10/0/2021		
	Karolinska		0				Janeiro-na-	
	Institutet,	D'	Organisation	Constants.	0		Madeira Winter	
	Stochholm,	Disseminatio	of a	Complete	Organize	10/10/0000	Summer School	
Roman Zubarev	Sweden	n	Conference	d	d	16/1/2022	2022	https://janeiro-na-madeira.mozello.com/
	Karolinska						Janeiro-na-	
_	Institutet,		Organisation				Madeira Winter	
Susanna	Stochholm,	Disseminatio	ofa	Complete	Organize		Summer School	
Lundström	Sweden	n	Conference	d	d	16/1/2022	2022	https://janeiro-na-madeira.mozello.com/
	Karolinska						Janeiro-na-	
	Institutet,		Organisation				Madeira Winter	
	Stochholm,	Disseminatio	of a	Complete	Organize		Summer School	
Zhaowei Meng	Sweden	n	Conference	d	d	16/1/2022	2022	https://janeiro-na-madeira.mozello.com/
	Fasmatech,							
Dimitris	Athens,	Disseminatio		In-			Presentation	
Papanastasiou	Greece	n	Twitter post	progress			advertisement	https://twitter.com/fasmatech_omni
	Fasmatech,							
Dimitris	Athens,	Disseminatio	Website	In-			News/Presentatio	
Papanastasiou	Greece	n	contribution	progress			n	https://twitter.com/topspecms2
•								

	Fasmatech,							
Dimitris	Athens,	Disseminatio		In-				
Papanastasiou	Greece	n	LinkedIn post	progress				https://gr.linkedin.com/company/fasmatech-science-and-technology
	SpectroSwiss			1 0				
	, Lausanne,	Disseminatio		In-			News/Presentatio	
Yury Tsybin	Switzerland	n	Twitter post	progress			n	https://twitter.com/YTsybin , https://twitter.com/Spectroswiss
	SpectroSwiss							
	, Lausanne,	Disseminatio	Website	In-			News/Presentatio	
Yury Tsybin	Switzerland	n	contribution	progress			n	https://topspec.ki.se/
							Exploring	
							frontiers of	
							Orbitrap	
	Thermo						performance for	
	Fisher						long transients,	
Alexander	Scientific,	Disseminatio	Peer-reviewed	Complete	Publishe		Int. J. Mass Spectrom., 466	https://www.sciencedirect.com/science/article/pii/S1387380621000877?via%3Di
Makarov	Bremen, Germany		publication	d	d		(2021) 116607	hub
IVIdKdI UV	MS Vision,	n	publication	u	u		(2021) 110007	
Jan	Almere,	Disseminatio		In-				
Commandeur	Holland	n	LinkedIn post	progress				https://nl.linkedin.com/company/spectrometryvision
commanded	liendid		Non-scientific	p. 08. 000				
			and non-peer-					
			reviewed				The Project	
	MS Vision,		publication				Repository	
Jan	Almere,	Disseminatio	(popularised	Complete	Publishe		Journal Volume	https://www.europeandissemination.eu/wp-
Commandeur	Holland	n	publication)	d	d		15	content/uploads/2022/11/TOPSPEC.pdf
		Disseminatio	Presentation				EPIC-XS	
Julia Chamot-	IP, Paris,	n	at scientific	Complete			Workshop, Tarty	https://topspec.ki.se/wp-content/uploads/sites/101/2023/01/Chamot-
Rooke	France		conference	d		Sept 2022	(Estonia)	Rooke EPIC-XS-workshop-Tartu-reduced.pdf
		Disseminatio	Presentation					
Julia Chamot-	IP, Paris,	n	at scientific	Complete			EUPA Meeting,	https://topspec.ki.se/wp-content/uploads/sites/101/2023/01/2022-EUPA-
Rooke	France		conference	d		April 2022	Leipzig (Germany)	ChamotRooke-reduced.pdf
		Disseminatio	Description				Janeiro-na-	
Iulia Chamat	ID Daria	n	Presentation	Complete			Madeira Winter	
Julia Chamot- Rooke	IP, Paris, France		at scientific conference	Complete d		16/1/2022	Summer School 2022	https://janeiro-na-madeira.mozello.com/
RUUKE	Karolinska	Disseminatio	conterence	u		10/1/2022	Gordon Research	
	Institutet,	n	Presentation				Conference (GRC)	
	Stochholm,		at scientific	Complete			in Ventura, CA	
Roman Zubarev	Sweden		conference	d		Feb 2019	(USA)	
Listian Lubarev	Karolinska	Disseminatio	Server enfoc	~			Research seminar	
	Institutet,	n	Presentation				in Amgen,	
	Stochholm,		at scientific	Complete			Thousand Oaks,	
Roman Zubarev	Sweden		conference	d		Feb 2019	CA,	
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	Institutet,	n	Presentation			FT MS workshop	
	Stochholm,		at scientific	Complete		in Key West, FL	https://topspec.ki.se/wp-content/uploads/sites/101/2023/01/RZubarev-
Roman Zubarev	Sweden		conference	d	Apr 2019	(USA)	TopSpec-Ventura-Feb-2019.pdf
		Disseminatio				Pathway Analysis	
	Karolinska	n				in Proteomics	
	Institutet,		Presentation			(PathProt)	
	Stochholm,		at scientific	Complete		conference,	
Roman Zubarev	Sweden		conference	d	Oct 2022	Oeiras, Portugal	
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Dimitris		Disseminatio		d		members of the	
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Konstantin O.		Discominatio	Door reviewed	Complete	Publishe		Guide Experiment Design and Data	
	Sportrogwice	Disseminatio	Peer-reviewed publication	Complete d	d Publishe	Aug-2020	Analysis	https://pubs.acs.org/doi/10.1021/jasms.0c00190
Nagornov	Spectroswiss	n	publication	u	u	Aug-2020	Transient-	IIII 10.1/ 10.1021/101130
							Mediated	
							Simulations of	
							FTMS Isotopic	
							Distributions and	
Anton N.		Disseminatio	Peer-reviewed	Complete	Publishe		Mass Spectra to	
Kozhinov	Spectroswiss	n	publication	d	d	Aug-2020	Guide Experiment	https://pubs.acs.org/doi/10.1021/jasms.0c00190
Rozinnov	5000000000000		publication	~	u	106 2020	Suide Experiment	

							Design and Data Analysis	
Yury Tsybin	Spectroswiss	Disseminatio n	Peer-reviewed publication	Complete d	Publishe d	Sept-2021	Drug-to-Antibody Ratio Estimation via Proteoform Peak Integration in the Analysis of Antibody– Oligonucleotide Conjugates with Orbitrap Fourier Transform Mass Spectrometry	https://pubs.acs.org/doi/10.1021/acs.analchem.1c02247
Konstantin O. Nagornov	Spectroswiss	Disseminatio n	Peer-reviewed publication	Complete d	Publishe d	Sept-2021	Drug-to-Antibody Ratio Estimation via Proteoform Peak Integration in the Analysis of Antibody– Oligonucleotide Conjugates with Orbitrap Fourier Transform Mass Spectrometry	https://pubs.acs.org/doi/10.1021/acs.analchem.1c02247
Anton N. Kozhinov	Spectroswiss	Disseminatio n	Peer-reviewed publication	Complete d	Publishe d	Sept-2021	Drug-to-Antibody Ratio Estimation via Proteoform Peak Integration in the Analysis of Antibody– Oligonucleotide Conjugates with Orbitrap Fourier Transform Mass Spectrometry	https://pubs.acs.org/doi/10.1021/acs.analchem.1c02247
Yury Tsybin	Spectroswiss	Disseminatio n	Peer-reviewed publication	Complete d	Publishe d	Nov - 2021	The Human Proteoform Project: Defining the human proteome	https://www.science.org/doi/10.1126/sciadv.abk0734
Julia Chamot- Rooke	Institut Pasteur	Disseminatio n	Peer-reviewed publication	Complete d	Publishe d	Nov - 2021	The Human Proteoform Project: Defining the human proteome	https://www.science.org/doi/10.1126/sciadv.abk0734

Julia Chamot- Rooke	Institut Pasteur	Disseminatio	Peer-reviewed publication	Complete d	Publishe d	Nov - 2021	TDFragMapper: a visualization tool	
кооке	Pasteur	n	publication	a	a			
							for evaluating	
							experimental	
							parameters in	
							top-down	
							proteomics	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8796372/
	Institut	Disseminatio	Peer-reviewed	Complete	Publishe	Nov - 2021	TDFragMapper: a	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8796372/
	Pasteur	n	publication	d	d		visualization tool	
							for evaluating	
							experimental	
							parameters in	
Jonathan							top-down	
Dhenin							proteomics	
	Institut	Disseminatio	Peer-reviewed	Complete	Publishe	Nov - 2021	TDFragMapper: a	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8796372/
	Pasteur	n	publication	d	d		visualization tool	
							for evaluating	
							experimental	
							parameters in	
							top-down	
Mathieu Dupré							proteomics	
Yury Tsybin	Spectroswiss	Disseminatio	Peer-reviewed	Complete	Publishe	March - 2021	Structural	
runy royoni	500000000000000000000000000000000000000	n	publication	d	d		Analysis of	
			publication	u	u		Monoclonal	
							Antibodies with	
							Top-down and	
							Middle-down	
							Electron Transfer	
							Dissociation Mass	
							Spectrometry:	https://chimia.ch/chimia/article/view/2022 114/5198
	<u> </u>	<u>.</u>		<u> </u>	<u> </u>		The First Decade	
	Spectroswiss	Disseminatio	Peer-reviewed	Complete	Publishe	March - 2021	Structural	https://chimia.ch/chimia/article/view/2022 114/5198
		n	publication	d	d		Analysis of	
							Monoclonal	
							Antibodies with	
							Top-down and	
							Middle-down	
							Electron Transfer	
							Dissociation Mass	
Konstantin O.							Spectrometry:	
Nagornov							The First Decade	
	Spectroswiss	Disseminatio	Peer-reviewed	Complete	Publishe	March - 2021	Structural	https://chimia.ch/chimia/article/view/2022 114/5198
		n	publication	d	d		Analysis of	
Anton N.							Monoclonal	
Kozhinov							Antibodies with	

							Top-down and	
							Middle-down	
							Electron Transfer	
							Dissociation Mass	
							Spectrometry:	
							The First Decade	
Dimitris	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	
Papanastasiou		n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Diamantis	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Kounadis		n	and non-peer-	d .	d	•	Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
			publication)				Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Alexandros	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Lekkas	rasinateen	n	and non-peer-	d	d	JCpt 2022	Platform: A	
LCKRdJ			reviewed	u	u		Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
			publication				Multiple-Stage	
							Tandem Mass	
· · ·		<u>.</u>		0 1 1	<u> </u>	<u> </u>	Spectrometry	
Ioannis	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Orfanopoulos		n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Andreas	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Mpozatzidis		n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	

			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
			publication				Multiple-Stage	
							Tandem Mass	
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Athanasios	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Smyrnakis		n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Elias	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Panagiotopoulo		n	and non-peer-	d	d		Platform: A	
S			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Mariangela	Fasmatech	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Kosmopoulou		n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Maria	Thermo	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Reinhardt-	Fisher	n	and non-peer-	d	d		Platform: A	
Szyba			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Kyle Fort	Thermo	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
	Fisher	n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	

			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Alexander	Thermo	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Makarov	Fisher	n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Roman A.	Thermo	Disseminatio	Non-scientific	Complete	Publishe	Sept-2022	The Omnitrap	https://pubs.acs.org/doi/10.1021/jasms.2c00214
Zubarev	Fisher	n	and non-peer-	d	d		Platform: A	
			reviewed				Versatile	
			publication				Segmented Linear	
			(popularised				Ion Trap for	
			publication)				Multidimensional	
							Multiple-Stage	
							Tandem Mass	
							Spectrometry	
Alexander	Thermo	Disseminatio	Non-scientific	Complete	Publishe	June-2020	A Novel Family of	
Makarov	Fisher	n	and non-peer-	d	d		Quadrupole-	
			reviewed				Orbitrap Mass	
			publication				Spectrometers for	
			(popularised				a Broad Range of	
			publication)				Analytical	
							Applications	https://www.preprints.org/manuscript/202006.0111/v1
		Disseminatio	Non-scientific	Complete	Publishe		Adding colour to	
		n	and non-peer-	d	d		mass spectra:	
			reviewed				Charge	
			publication				Determination	
			(popularised				Analysis	
Manada	Ke seller die		publication)				(CHARDA) assigns	
Yaroslav	Karolinska					Cant 2021	charge state to	https://chemrxiv.org/engage/chemrxiv/article-
Lyutvinskiy	Institutet	D'	N	Constants	D. I. I. J. J.	Sept -2021	every ion peak	details/613a227265db1e3f14b1ab27
Zhaowei Meng	Karolinska	Disseminatio	Non-scientific	Complete	Publishe	Sept -2021	Adding colour to	https://chemrxiv.org/engage/chemrxiv/article-
	Institutet	n	and non-peer-	d	d		mass spectra:	details/613a227265db1e3f14b1ab27
			reviewed				Charge	
			publication				Determination	
			(popularised				Analysis	
			publication)				(CHARDA) assigns	

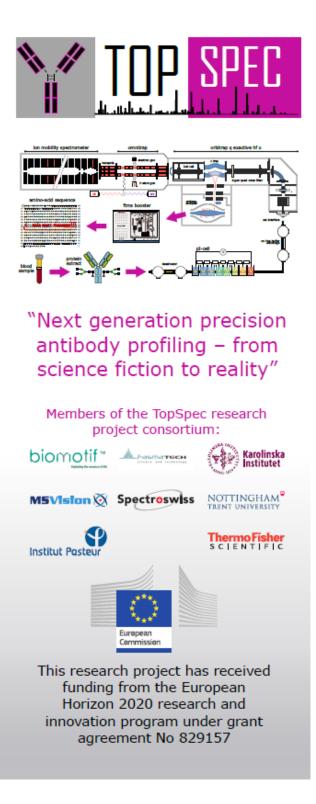
							charge state to every ion peak	
Amir Ata Saei	Karolinska Institutet	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27
Xuepei Zhang	Karolinska Institutet	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27
Roman Zubarev	Karolinska Institutet	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27
Konstantin O. Nagornov	Spectroswiss	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27
Anton N. Kozhinov	Spectroswiss	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27
Yury O. Tsybin	Spectroswiss	Disseminatio n	Non-scientific and non-peer- reviewed	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27

			publication (popularised publication)				Determination Analysis (CHARDA) assigns	
			. ,				charge state to every ion peak	
Alexander Makarov	ThermoFishe r	Disseminatio n	Non-scientific and non-peer- reviewed publication (popularised publication)	Complete d	Publishe d	Sept -2021	Adding colour to mass spectra: Charge Determination Analysis (CHARDA) assigns charge state to every ion peak	https://chemrxiv.org/engage/chemrxiv/article- details/613a227265db1e3f14b1ab27



Annex 2

TopSpec Consortium banner for display at conferences



Annex 3

Overview of WP 8 – Dissemination, communication and exploitation of results

Task	Activity	Period					
8.1	Dissemination activities	M1-36					
	 Creating and publishing the public dissemination material (Website, posters, brochures, videos), Adapting the dissemination support to the target, 						
	• keeping track of publications and public disclosures by creating a database.						
8.2	Knowledge Management and IPR	M1-36					
	• Management of the pre-existing knowledge needed to achieve the work (background), the knowledge created during the project (foreground), and the knowledge created in parallel to the project (side-ground) by either partners or other parties that might impact the project.						
8.3	Exploitation strategy of the results	M1-36					
	 Identification of the internal and external stockholders. Determining the synergies between them to integrate the results, identify the weak points, assess the usability of the results. Identify the competing technical approaches Analyze the evolving socio-economic context including user needs, overall market trends. 						
8.4	Demonstration workshop	M22					
	• The stakeholders identified and presented in 8.3 will be invited to analyze project results in order to evaluate the scientific relevance, performance and transferability of the technology.						
8.5	Management of patent strategy and freedom to operate (FTO)	M1-36					
	 Develop an IP protection strategy at the start of the project (M3). Monitor that the newly created IP falls under the Consortium Agreement. 						
8.6	Public engagement						
	 Create articles with easy public access through project website Publish popular articles in general science magazines Giving interviews to news reporters (newspapers, TV, radio etc.) 						
8.7	Develop and implement a common business strategy for market introduction	M12-					
	 Develop a common business strategy for market introduction through consultations within Consortium. Implement the developed business strategy for market introduction. 	36					
8.9	Organizing relevant conferences	M6-36					
	 CO-organizing a conference of the UppCon series (Uppsala conference on Electron Capture Dissociation and related phenomena, run since 2003). Organizing a conference on Top-down analysis of proteins; Organizing a summer school on Electron Capture Dissociation and related phenomena Top-down analysis of proteins, as part of the annual MSBM (MS in biotechnology and medicine) summer school in Dubrovnik, Croatia. Organizing hands-on course will be arranged at KI, and will be open to European students. 						
8.10	Communication to commercial research organizations						
	• As we anticipate significant interest in TopSpec from the Pharma industry, we will act through technical media channels, B2B, fairs and conferences.	36					