

The chemistry of the future, today.

www.spirochem.com

Outsourcing your chemistry: why SpiroChem is your best choice?

SpiroFacts

Continuous Growth

- Since foundation in 2011
- ETH-Zürich spin-off

Location (since 2017)

- Basel, Switzerland fully-equipped R&D facilities
- Lab capacity: 140 fumehoods

Team of 100+ experts (92 research chemists)

- Handpicked* experts with successful academic and industrial experience
- Objective end 2023: 130

Expertise

0

- High ratio of PhD/MSc covering all aspects of modern synthetic chemistry
- Hands on management

SpiroChem

Clients

- Life science companies with high expectations
- Over 350 clients in 30+ countries





*Continual recruitment policy: we hire when the best are available, not only when we need them

What we believe in

piroChem

[Skills x Quality] = Normal expectation

```
[Skills x Quality x <u>Speed</u>] = Value
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To reduce discovery chemistry costs: DON'T MAKE IT CHEAP ... MAKE IT FAST !

Structural complexity is a matter of perception

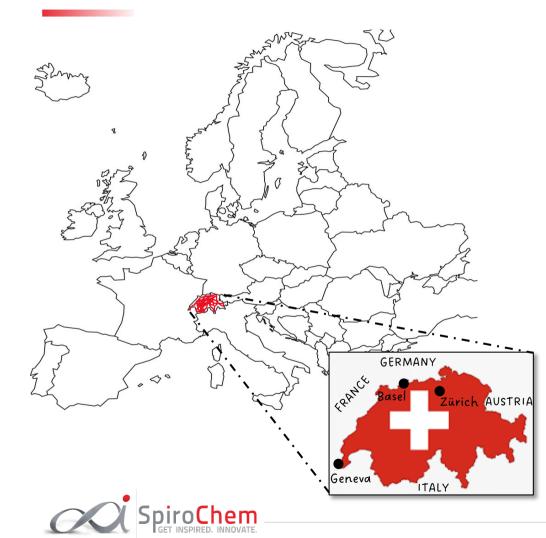
With knowledge, creativity and technology, we decorrelate complexity from actual synthetic accessibility

[Skills x Quality x Knowledge x Speed] = Real Value

Don't be limited by perceived structural complexity
 Make the molecules you should, not only the ones you could

Team work – Transparency – Equal Opportunities – Merit Recognition

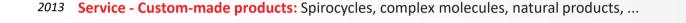
SpiroChem

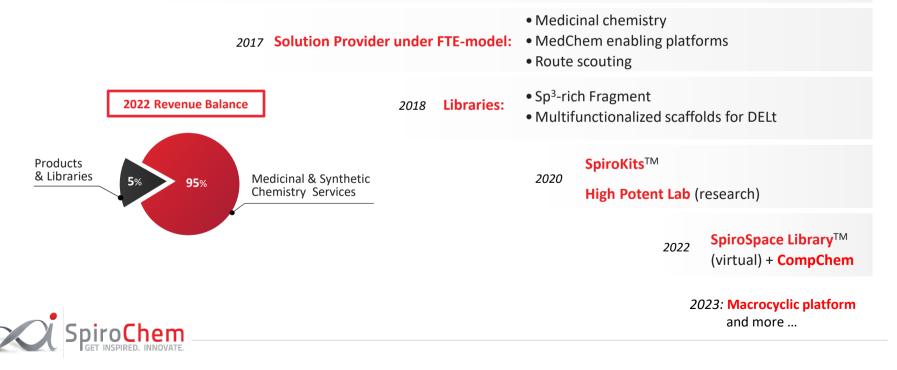




Evolution of SpiroChem's business model

2011 Catalog company: Catalog continually growing, inventory over 14'000 references





Logistics: SpiroChem has shipped compounds to over 350 clients in 30+ countries



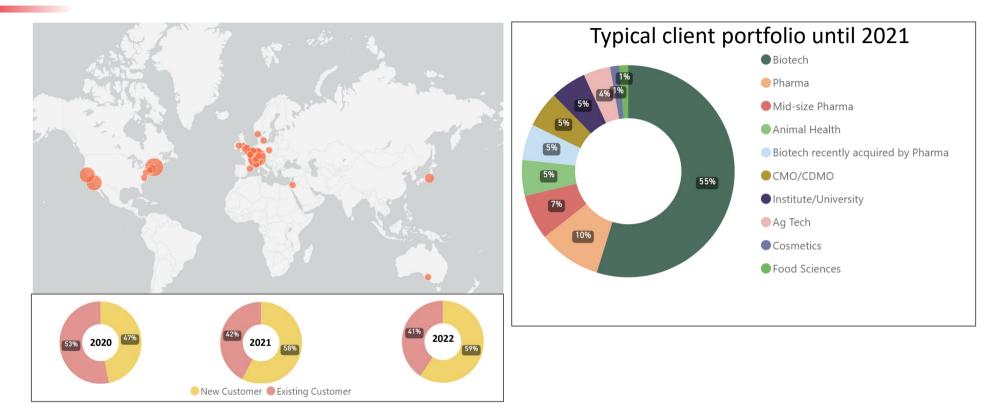
SpiroChem's services and solutions

We support you at each stage of the Discovery Program ... and beyond!

	Target Validation		Screening		Hit-2-Le	ad	Lead Optimization	Pre Cli	nical	Clinical 1,	2, 3	Marke	et
					Medicinal	Chemistry							
S				MedChe	m Enabling P	latforms							
services							Route Scouting						
Se					Consulting	g							
	CompuCh	em Services			Cross-fe busines								
				Catalog									
ucts			Fragment SpiroSpac										
products			DEL Scaffo	olds									
					SpiroKits								



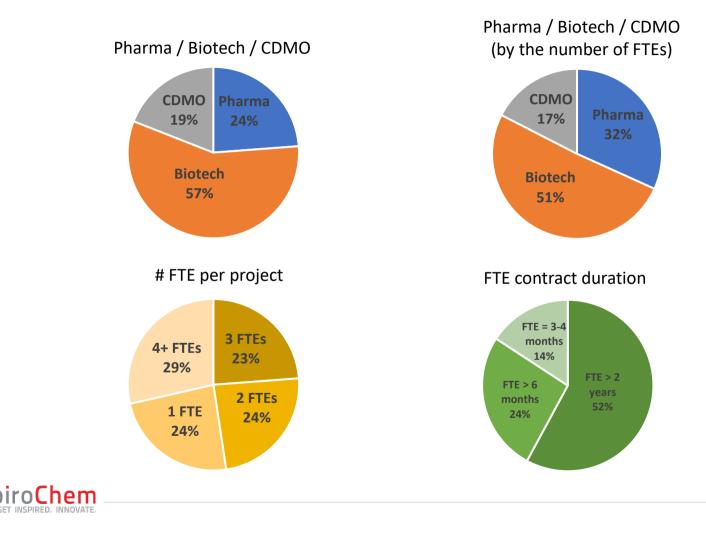
SpiroChem's Clients : where and who?



Since 2022: client portfolio composition is shifting – increasing Pharma component
 Forecast 2023: Pharma / Large CDMO will represent about 50 % of revenues

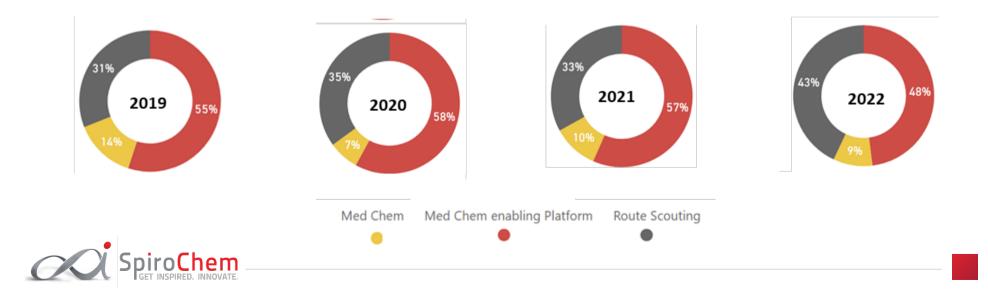


Overview of current projects (March 2023)

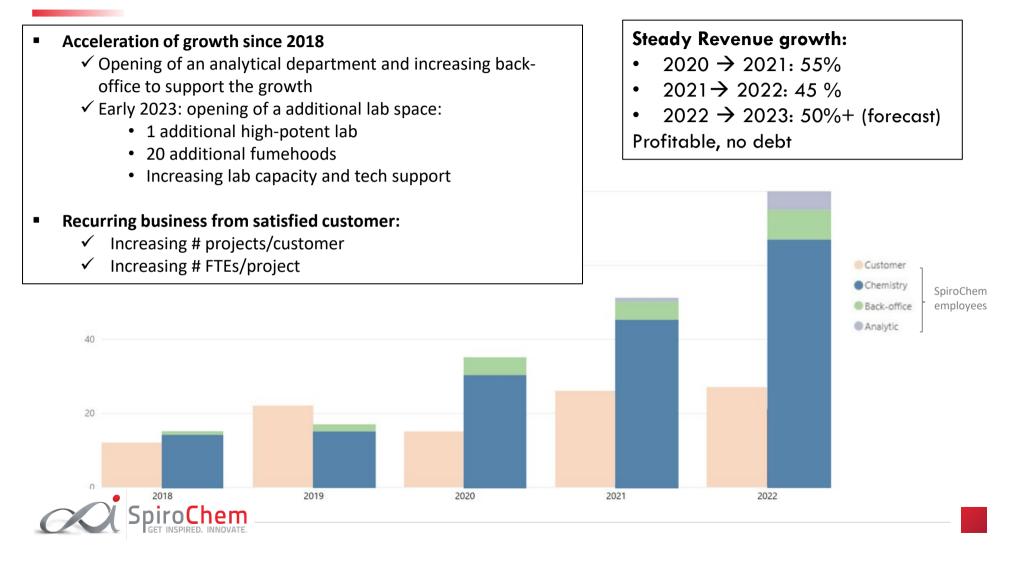


SpiroChem's Discovery Services

Medicinal Chemistry Projects	MedChem Enabling Platforms	Route Scouting
Full medchem programs from hit validation to identification of a preclinical candidate	NOVEL chemical space made accessible	We design and implement de novo synthetic routes and strategies for mole- cules of interest.
Support for a specific phase of your project	High flexibility required – Agile switch between projects / types chemistry	



SpiroChem growth and financial stability



What we do matters

					Asahi KASEI Asahi kasei pharma	
"Our collaboration with <u>SpiroChem</u> has enhanced <u>our ability</u> novel chemical space. The <u>SpiroChem</u> team and our tec partnership, working closely to resolve tough synthetic areas, which - without their expertise - would have been cl	biomedicine Hase Health Reper		with <u>Spirc</u> team - ba effectively synthesis and sophi	o <u>Chem</u> for several years sed on strong knowledge y to boost our structure of challenging targets, <u>S</u> isticated ideas that no of	r our lead optimization programs. We have been working in a fruitful and trustworthy relationship. The <u>SpiroChem</u> e of synthetic and medicinal chemistry – always performs e-activity relationship studies. And when it comes to the <u>spiroChem</u> also solved many synthetic issues with unique ther CRO can provide. It is stimulating us and brings great s. For this reason, <u>SpiroChem</u> is a highly recommended	
communication, rapid delivery with uncompromised d With a comp solutions makes <u>SpiroChem</u> a highly recommended partner scalable rout		h and the need to devise a succinct and	partner fo	or discovery.		
Stephanos loannidisknowledgeabVice President, Head of Chemistrystrides in dev	te for development, we turne ole chemists made quick work o reloping an optimized route. The shy away from a challenge! Give			HORIZON	ory for Drug Discovery	
hesitate in i	recommending the SpiroChem mistry guidance and support. ock, Ph.D. President and Head of Che "In our medicinal chemistry co our project goals and used the to suggest innovative, yet acc effort, <u>SpiroChem</u> was able to generated new compounds, ac	When only the best chemist Spirochem. For 10 years now chemists at Spirochem to complex synthetic challenges chemistry. Denis Billen Associate Director, Small molecul Ilaboration, <u>SpiroChem</u> quickly learned abo ir expertise in SBDD and medicinal chemist cessible targets. Following up with this initi translate those ideas into synthetic plans ar cidressing synthetic challenges along the wa n, we enjoyed their clear and hone	y, I have coll solve my p in medicina le API Chemis ut my ial nd yy	laborated with project's most al and process stry		high level of ve not only <u>Spirochem's</u> nave shown the project
		bility, and high quality of work which, bundle ood partner to work with."				

Our people: a stringent recruitment process to attract talents

2022 statistics

•	1000+	CVs reviewed	(triage)
•	240	1st-round	(potential)
•	80	2nd-round	(technical)
•	30	3rd round	(scientific, cultural and philosophical alignement)
•	24	new researchers	Onboarding period takes 1-3 months

Where do they come from?

• 9 nationalities (Swiss, EU, US, Canada, India, Korea) (Note: 17 different nationalities at SpiroChem)

High education level:

- PhD/Postdoc level: Top tier universities / academic research groups, accomplished researchers.
- MSc level: selected universities and chemistry schools across Europe, preferably with prior industry experience

Diverse expertise:

Natural product synthesis, methodology, carbohydrate, lipids, nucleic acids, etc.

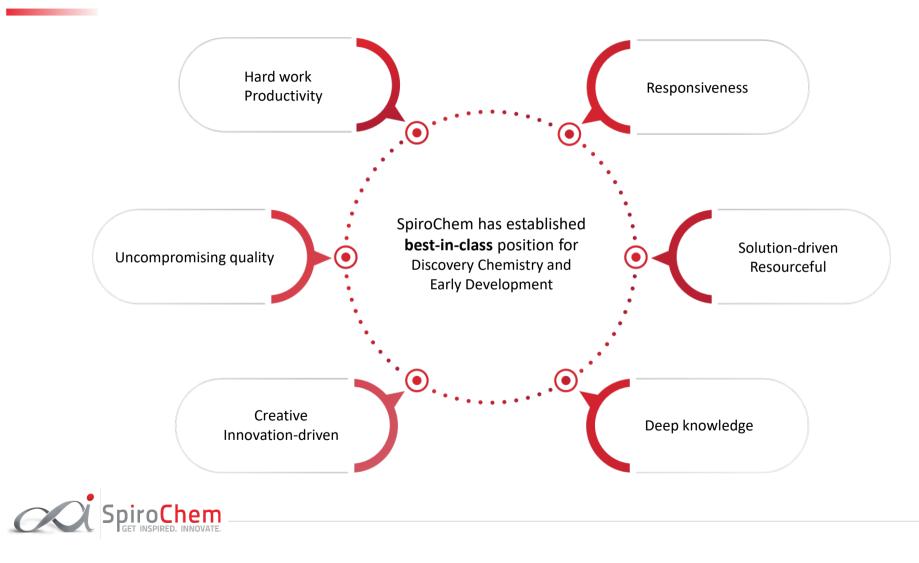
Prior professional experience:

Chemical industry, Pharma, Contract Research Organizations

We keep training our people:

- New employees present and share their research with team
- Emulation: brainstorming sessions on projects, sharing of knowledge across company
- Invited academic lectures
- Training courses from consultants and advisors
- Attendance to International Conference





Company Values must be understood by our employees BEFORE joining

Beyond KPIs*: SpiroChem stands out of the CROwd for quality

Top-notch scientific team, at <u>all</u> levels

- Interpretation of data, experimental observations
- Diligent and rigourous scientists
- Data management: electronic notebooks used since 2011
- Low maintenance: rapid and autonomous problem-solving
- Smooth and transparent communication («chemist to chemist»)
- Project leaders are **researchers** and spend most of the time **in the lab with their team**

Solution-oriented, focusing on client needs

• Agility and flexibility: priorities have changed? Not a problem!

* KPI: Key Performance Indicator



Importance of continuous R&D ... not the usual CRO model ...

Internal R&D

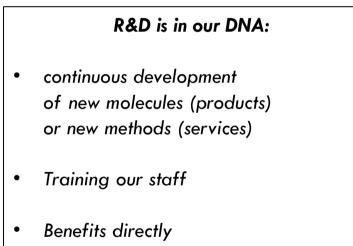
Maintaining an internal pool of chemists for R&D

Sponsoring of multiple academic collaborations (Switzerland, USA, Italy, France, ...)

- Ad-hoc collaborations and spot financing
- 5 PhD scholarships
- 2 Postdocs
 - "SpiroChem Academy"

Multiple ongoing research grants:

- Swiss federal grants:
 - HES-SO (Geneva, AI ML) (+ 2 postdocs)
 - ETH (Zürich, novel late-stage transformation paradigms) (+ 2 postdocs)
- European Union:
 - Eurostars: mRNA inhibitors (+ 2 researchers)
 - ITN: expanding the ADC toolbox (+ 1 PhD student)



our partners and clients



SpiroChem is already a trusted partner for many research companies in Life Science

Type of client	Location	# FTE	Duration	Type of support
Pharma	Global	5	12 month, renewed yearly	Synthetic platform, exploration of new chemical space
Pharma	Japan	10	12 month, renewed yearly	Synthetic chemistry support to medicinal chemistry team (several projects), problem solving
Pharma	Germany	6	12 month, renewed yearly	High-potent chemistry Linkers New building blocks for chemical space exploration
Pharma	Japan	1-2	Renewed every 6 months since 4 years	Medicinal chemistry (design) Route scouting
Biotech	Switzerland	2-3	Permanent FTE	Medicinal chemistry (design) 2 development candidates selected Route Scouting
Biotech	USA	6	12 months- contract, renewable	Synthesis of libraries of meolecular glues Support in PROTACs design
Biotech	USA	6	12 month contract	Synthetic chemistry support
CDMO	Europe	7	24-month contract, renewable	Route scouting for multiple projects

+ SpiroChem works on 30-40 projects per year (6-12 months) with clients in Europe, USA and Japan



Collaborations and partnerships



Government-partially funded collaboration

Innosuisse - Swiss Innovation Agency

Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra **Hes**·so

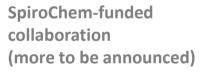
Haute Ecole Spécialisée de Suisse occidentale Fachhochschule Westschweiz University of Applied Sciences and Arts Western Switzerland

Prof. Dr. Douglas Teodoro AI and ML Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Prof. Dr. Bill Morandi Late-stage functionalization



mRNA targeting molecules



Uni Po Prof.

Uni Pavia / Uni Illinois Prof. Dr. David Sarlah Uni Indiana Prof. Dr. Kevin Brown



Prof. Dr. Hon Lam

Strategic partners



Accurate computational calculation for quantum chemical data



ZOBIO Biophysical screening

Biophysical screening platform



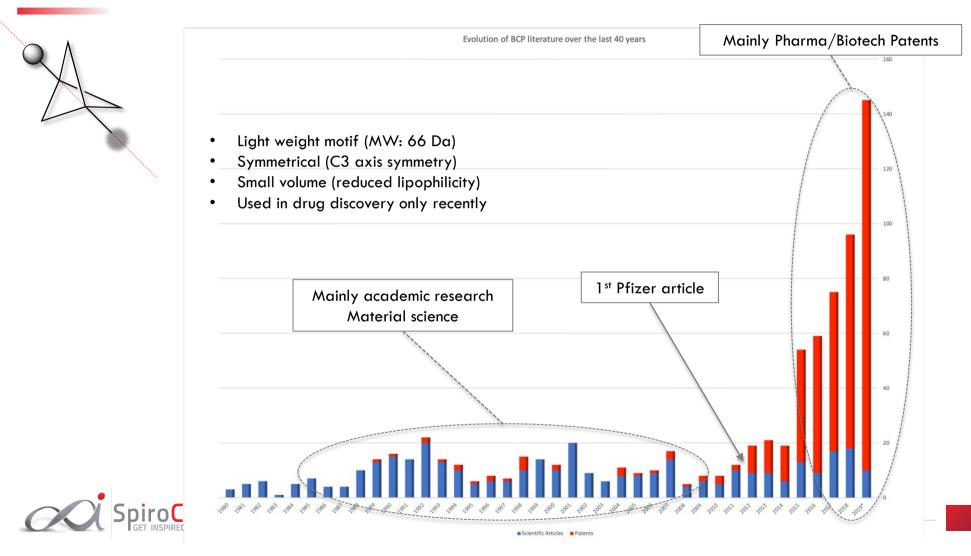
Rapid generation of high-resolution X-ray co-crystal structure



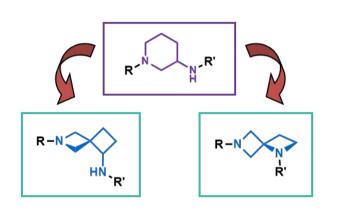
Rapid in vitro and cellbased screening Compound Management

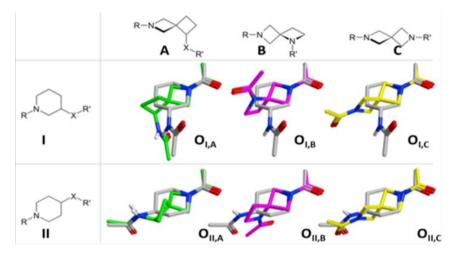
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Bicyclo[1.1.1]pentanes



SpiroChem's Portfolio of Bioisoteric Solutions - Spiro-switch concept



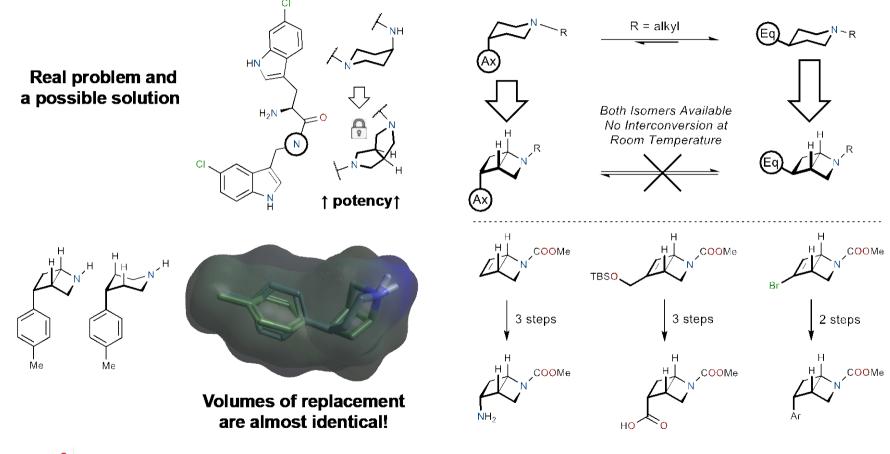


- Replacement of piperidine moieties by azaspiro[3.3]heptane scaffold
- Good match of exit vectors often found due to the high diversity of spirocycles
- Entropy gain often observed due to conformational restriction of spirocycles
- Full analysis of the vectorial space surrounding spirocycles available from SpiroChem



Example of recent innovative project – Dewar pyridines – with Sarlah group



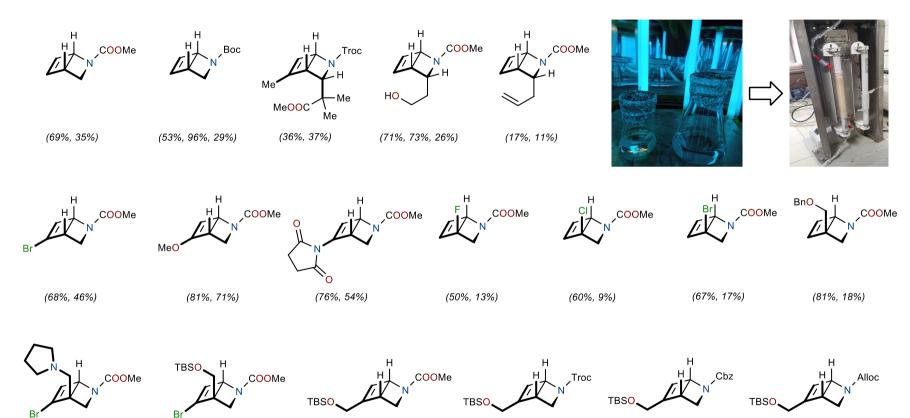


SpiroChem

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Example of recent innovative project – Dewar pyridines – with Sarlah group

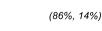




(75%, 23%)

(92%, 35%)

(80%, 55%)



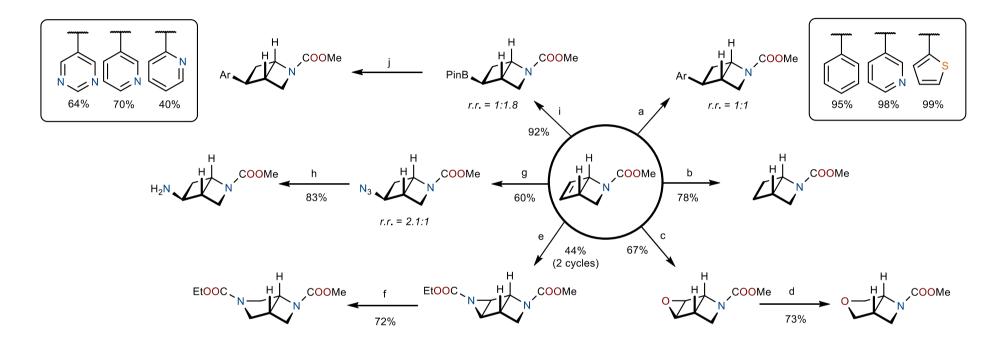
(89%, 43%)

(88%, 31%)

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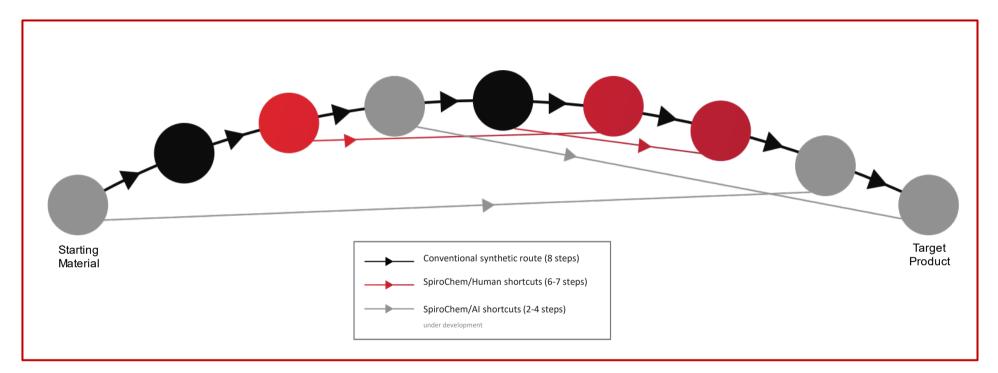
Example of recent innovative project – Dewar pyridines – with Sarlah group



- 3 grad students + 3 postdocs sponsored by SpiroChem over the last 3 years -> SpiroChem academy
- Ongoing discussions with Merck for joint evaluation of properties
- Dr. Yaroslav Boyko (Chemistry), Carl Monopoli (BDL/TTO)



SpiroChem's MedChem enabling platforms – Concept



- Use modern synthetic chemistry method to introduce complexity at a late stage
- Technological support: photochemistry (photoredox), electrochemistry, ...

- Pragmatic and agile approach to develop
 - flexible synthetic strategies



SpiroChem niche and specialty expertise

- SpiroSPACE: enabled Virtual Fragment Library
- New modalities: Covalent inhibition (with SpiroCOVE: subset of SpiroSPACE for covalent inhibitors)
- CADD and Bio-isosteric Switch
- DEL scaffolds
- Linkers
- New Modalities: macrocycles
- New modalities: Degraders
- New modalities: ADCs
- Route scouting



SpiroChem's Chemistry Expertise

Mastering Cutting-edge technologies

- Photochemistry
- Flow Chemistry
- Electrochemistry
- Microwave-assisted chemistry

Mastering Specific Chemistry Skills

- Heterocyclic chemistry
- Radical chemistry, organocatalysis, cross-coupling reactions
- Synthesis of hybrid sp²-sp³ scaffolds
- Synthesis of conformationally restricted scaffolds (spirocycles, bicycloalkanes)
- Preparation of biomolecules (glycochemistry, fatty acids, polypeptides, macrocycles,
- nucleotides/sides)
- Chemical biology (probes, linker)
- Total synthesis of natural products

We provide a tailored team of experts to fit your needs.



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SpiroChem's Portfolio of Bioisoteric Solutions

SpiroChem has developed a diverse portfolio of solutions via isosteric switches for :

- Finding solutions for ADME optimization
- Fostering scaffold hopping
- Generating IP through exploration and exploitation of novel structural and property diversity

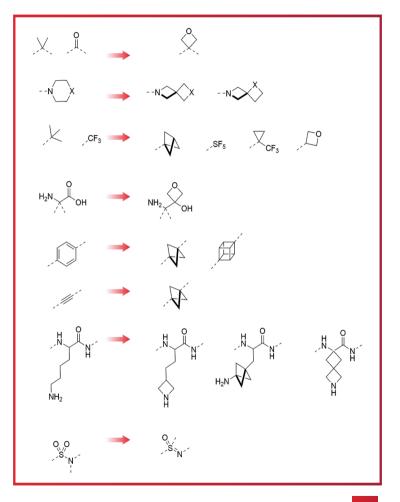
In particular, SpiroChem is world-leading expert in the chemistry of cage molecules and conformationally-restricted motifs.

syngenta

SpiroChem is a truly outstanding partner for the synthesis of customized building blocks, combining high technical expertise, creativity and a strong commitment with a very collaborative approach and a focus on delivery. Excellent communication, innovative ideas at the start of the project and proactive problem-solving by the SpiroChem team contribute to the success of projects. I have no hesitation in recommending SpiroChem.

Fredrik Cederbaum

Head of Fungicide Chemistry & Chemistry Operations







Small-Molecule Macrocycles

The Ideal Tool for the Discovery of Breakthrough Drugs Against Challenging Disease Targets

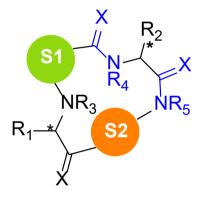




Specific CMRT[™] Designs – BBP Example

Design Examples for PPI and BBP Compounds

(Constrained Macrocycles for Recognition of Topologies)



Calculated	properties of
representa	itive BBP library
MW:	320-500 Da
tPSA:	70-126 (Mean: 93
Ų)	
clogP:	0.7-5.9 (Mean: 3.7)

Specific Considerations

- Small surface area and low MW focus
- Diverse topologies
- Lipophilic aliphatic and heterocyclic functionalities preferred
- Amino acids with short, aliphatic, alicyclic or small lipophilic, heterocyclic, side chains preferred
- Amide nitrogen frequently methylated
- MW not exceeding 500 Da





CMRT[™] Design Considerations

CMRT[™] constitutes SpiroChem's proprietary small-molecule macrocycle technology

Molecules with MW < 1000 Da and ring sizes of 12-30 atoms preferred

Maximization of chemical and topological diversity through use of bifunctional building blocks (3-8 per compound)

L- and D- natural and unnatural amino acids with/without modifiable side chains

Linkers and spacers containing

Aliphatic, aromatic, alicyclic, heterocyclic elements with/without options for secondary modifications

Structural elements prone to inducing alpha- and beta-turns, structural constraints

Allowing attachment through a variety of reaction methodologies to provide alternative linkages, in addition to amides and amide isosteres/surrogates

Introduction of secondary conformational constraints through N-alkylation, ring type/size, specific pharmacophore groups, internal hydrogen-bonds, fused rings

Expansion of diversity by adding side chain extensions and functionalities

Target agnostic with exceptions of PPI and CNS-penetrant designs





8269 Compounds

7,830 cyclic compounds

20 cyclic dimers (cd)

193 acyclic congeners

226 advanced fragments

Ring sizes comprising 10 to 60 atoms

Rings containing 3 to 8 building blocks

Incorporation of up to 459 unique building blocks per position in various combinations across different ring sizes

Providing a representative cross-section of the initially synthesized 16,677 compounds and their attributes relating to:

Sizes and topologies

Physico-chemical properties

Utility for a broad spectrum of target classes





Unique Building Blocks (BB) per Ring Position

BB Position	1	2	3	4	5	6	7	8
No. of BBs	391	437	459	379	157	77	29	21

Unique Compounds per Ring Size

Ring Size	10	11	12	13	14	15	16	17	18	19
Compounds	1	2	263	53	168	831	711	1845	2192	346

Ring Size	20	21	22	23	24	25	26	27	28	29
Compounds	478	307	64	69	60	19	17	55	35	55

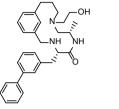
Ring Size	30	31	34	36
Compounds	232	14	9	2

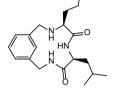
Ring Size	cd24	cd30	cd32	cd34	cd38	cd56	cd58	cd60
Compounds	1	4	2	6	1	1	2	3

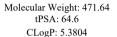




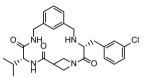
Specific CMRT[™] Designs – BBP Examples





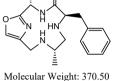


Molecular Weight: 331.46 tPSA: 70.23 CLogP: 3.431



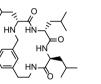
Molecular Weight: 483.01 tPSA: 90.54 CLogP: 3.8516

Molecular Weight: 502.68 tPSA: 96.25 CLogP: 4.462



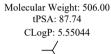


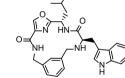
tPSA: 74.75 CLogP: 2.2306



Molecular Weight: 472.67 tPSA: 99.33

CLogP: 5.9124





Molecular Weight: 485.59 tPSA: 103.85 CLogP: 3.4936

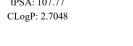
Molecular Weight: 457.62 tPSA: 125.35 CLogP: 2.7934

HN 0=

Molecular Weight: 503.65 tPSA: 107.77 CLogP: 2.7048

H₂N²

Molecular Weight: 502.66 tPSA: 109 CLogP: 5.1441

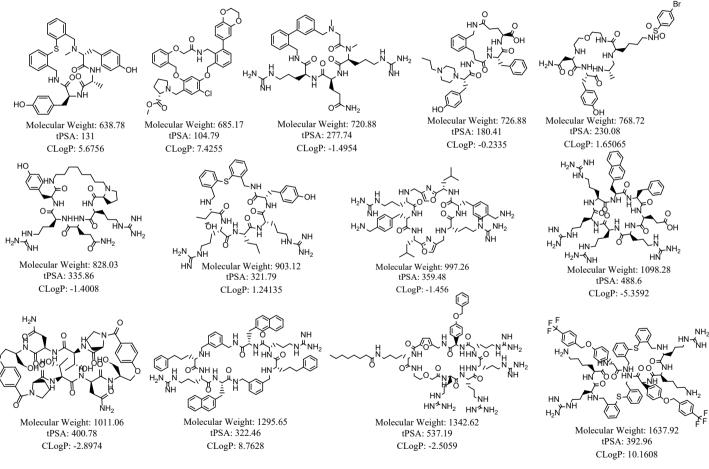


Molecular Weight: 494.64 tPSA: 119.56 CLogP: 4.2684



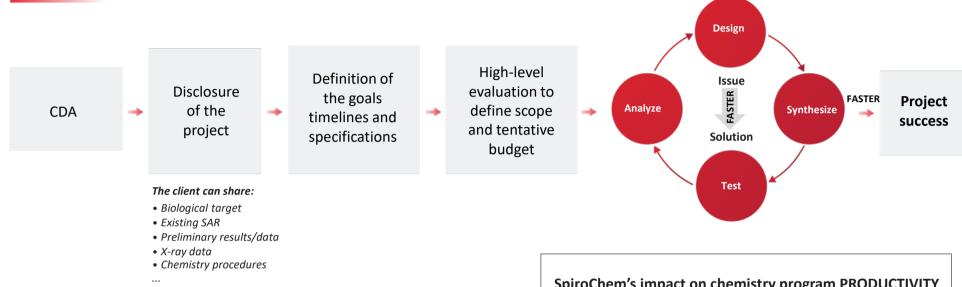


Specific CMRT[™] Designs – PPI Examples



SpiroChem

Typical SpiroChem MedChem project workflow



Our medicinal chemistry group combines expertise across :

- multiple therapeutics areas (e. g. oncology, CNS, antibiotics, antiviral, metabolic disorders, pulmonary diseases, obesity, ...)
- various biological mechanisms (e. g. kinase, ion channel, reverse transcriptase, protein degrader, GPCR, Ppi, covalent inhibitor, ...)



Troubleshooting and high speed of implementation to:

- Deliver compounds earlier
- Reach conclusions faster
- Rapid shifting of priorities when required by project

SHORTER optimization cycles Get access to your go/no-go decisions earlier



Let's collaborate!

Be in touch.

Address: Rosentalarea WRO-1047-3, Mattenstrasse 24 4058 Basel Switzerland Tel: + 41 61 685 95 00 E-mail: <u>laurence.jung@spirochem.com</u> <u>www.spirochem.com</u>



Speed + Expertise = Budget Optimization

SpiroChem's impact on chemistry programs:

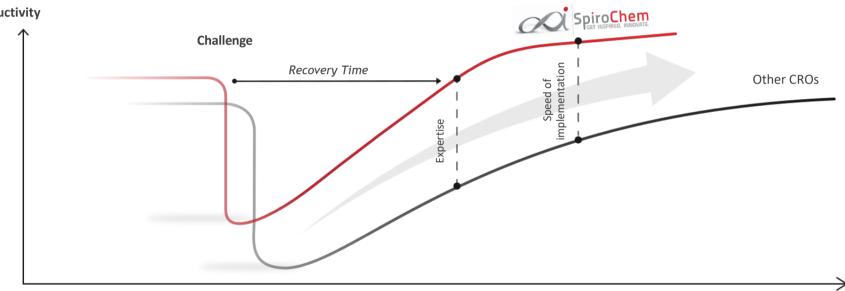
- Delivering compounds earlier
- Shorter test cycles
- Reaching conclusions faster

SpiroChem's impact on project budget:

• Less down-time for other CROs/internal resources

Time

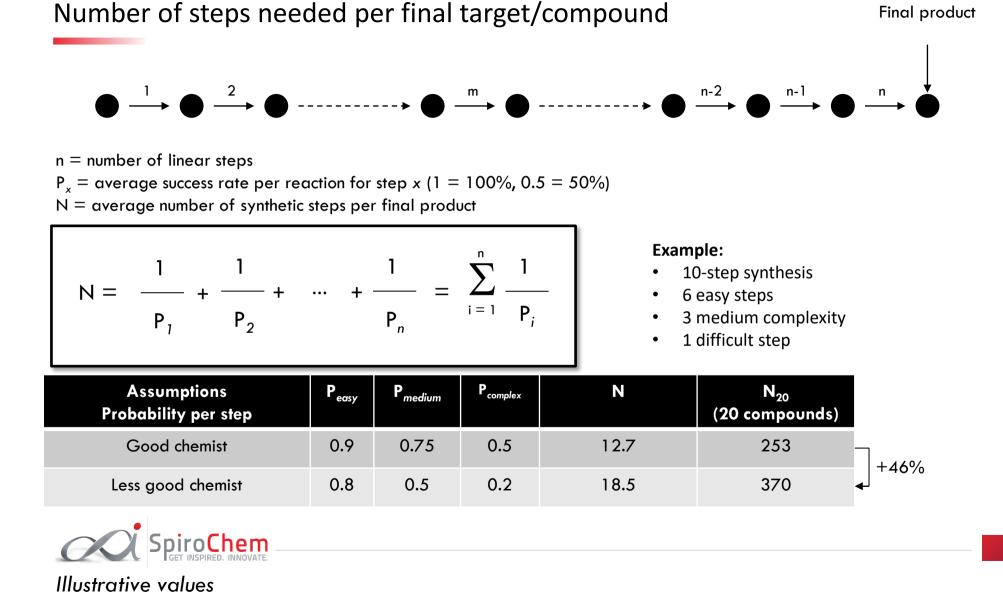
• Lower overall project costs

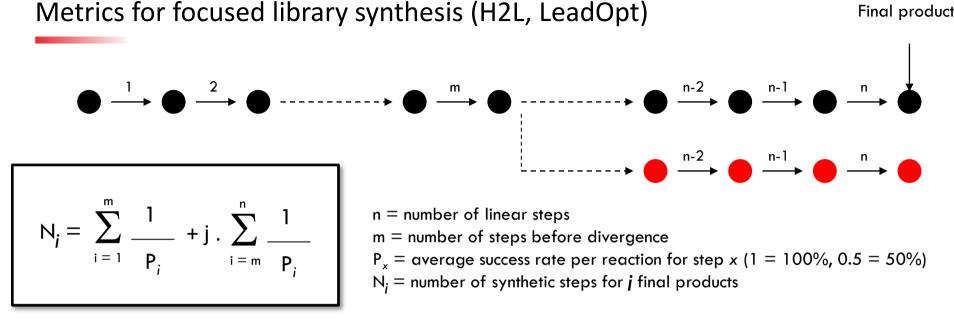


We face the same problems as others... but we avoid them or solve them faster.



Productivity





Assumptions Probability per step	m	P _{easy}	P _{medium}	P _{complex}	N ₂₀ j = 20 compounds	
creative chemist	8	0.9	0.75	0.5	59	+45%
"conservative" chemist	5	0.9	0.75	0.5	86	4 4 3 %

Example:

- 10-step synthesis
- 6 easy steps E
- 3 medium complexity M
- 1 difficult step D
 - Sequence: EEMEMEEDME

Final products



Illustrative values

"Complexity scale": depends on who you ask !

Chemist 1 (SpiroChem)

Easy (works 9 times out of 10)

-Suzuki

-Sonogashira

-Amide coupling

-Reductive amination

-Esterification

-Wittig/HWE

-[2+2] photocycloaddition -Nickel-photoredox Csp3-Csp2 coupling

Medium (works 6-8 times out of 10)

-Buchwald Hartwig -Ullmann C-N coupling -Etherification -Mitsunobu -Nickel photoredox Csp3-Csp3 coupling

Difficult (works 3-5 times out of 10 or requires some optimization)

-Pd-catalyzed C-O coupling -Nickel photoredox C-N coupling -Nickel-photoredox C-O coupling -Krapcho



Chemist 2 (SpiroChem)

Easy (works 9 times out of 10)

- carboxylate chemistry (sapo, petide coupling, etc

- carbonyl chemistry (addition, condensation, reductive amination, etc)
- SNAr

- palladium catalysed cross coupling (various)

- FG interconversion (most redox, protecting group and activation strategies)

Medium (works 6-8 times out of 10)

- spirocycle formation

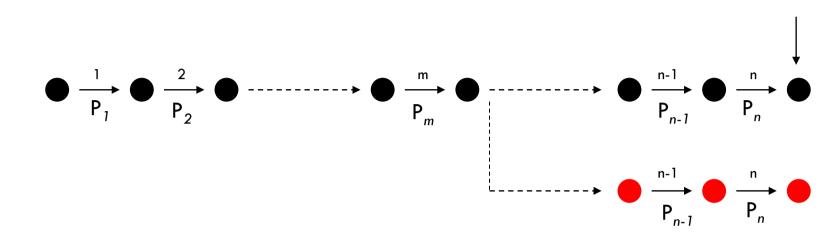
- metathesis (cross, ring-closing)
- cryogenic reactions involving hard organometallic species
- glycosylation
- photochemical transformations

Difficult (works 3-5 times out of 10 or requires some optimization)

- macrocyclization (all)
- biocatalytic transformations
- C-H functionalisation
- unprecedented enantioselective transformations
- reactions requiring extreme conditions (-100 $^\circ$ C, high pressure, >150 $^\circ$ C)

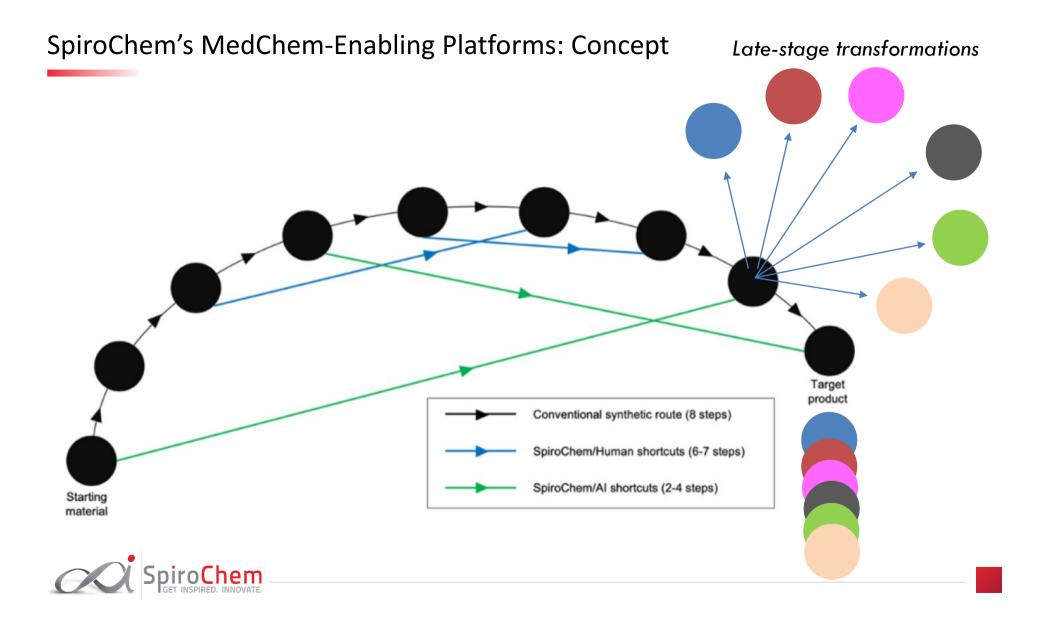
Synergies lead to (much) higher productivity

Final products

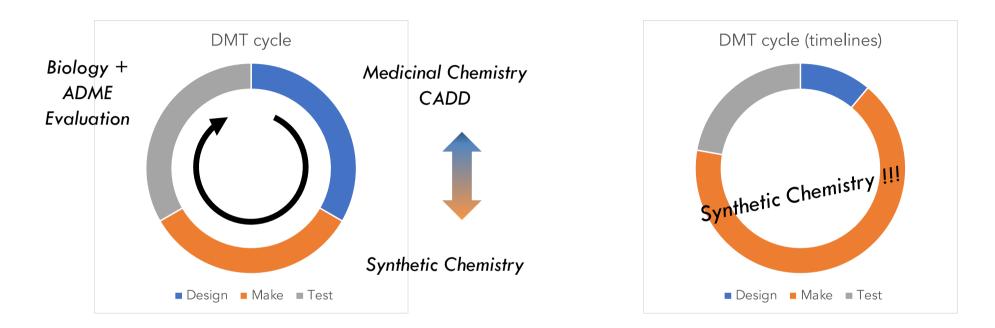


- SpiroChem always evaluate synthetic strategy to reduce "n" and increase "m"
- SpiroChem chemsits are highly trained, hence higher P_i
- Synergy of effects means that efficiency of SpiroChem chemists is at a multiple of industry standards
- SpiroChem skills can be used to:
 - Work on long and/or complex synthetic sequences
 - Remove bottlenecks to facilitate downstream chemistry (3rd party ?)
 - Blitz projects: focused libraries





Important role of synthetic chemistry in drug discovery

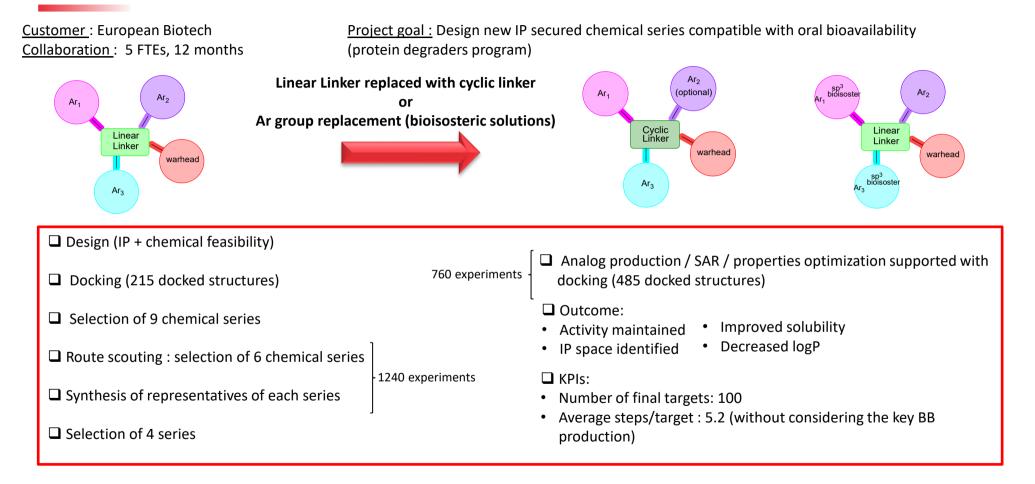


Conclusions:

- Synthetic chemistry has the highest potential to accelerate drug discovery
- Synthetic accessibility should not be a limitation to designers/medicinal chemists
- Novel methodologies and supporting technologies are needed

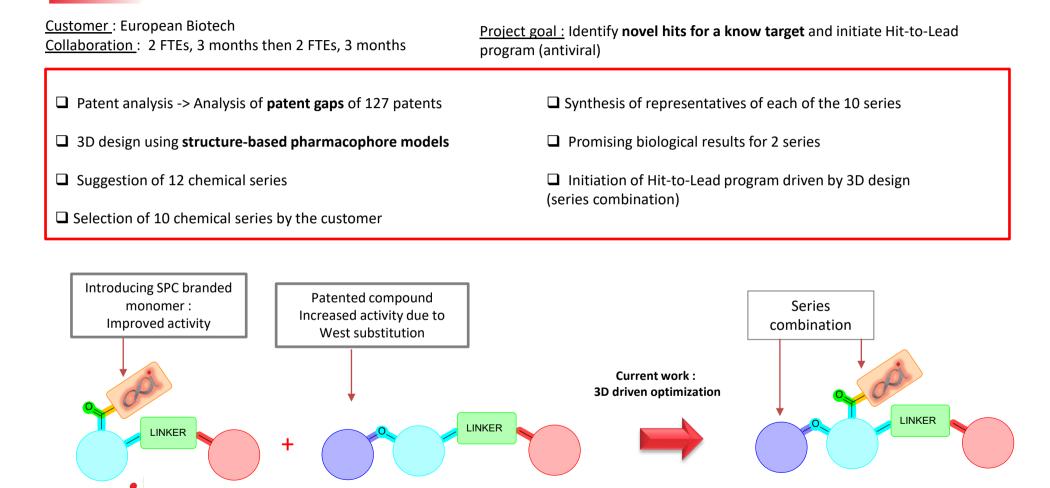


Case Study 1 – Hit-to-Lead supported by 3D design



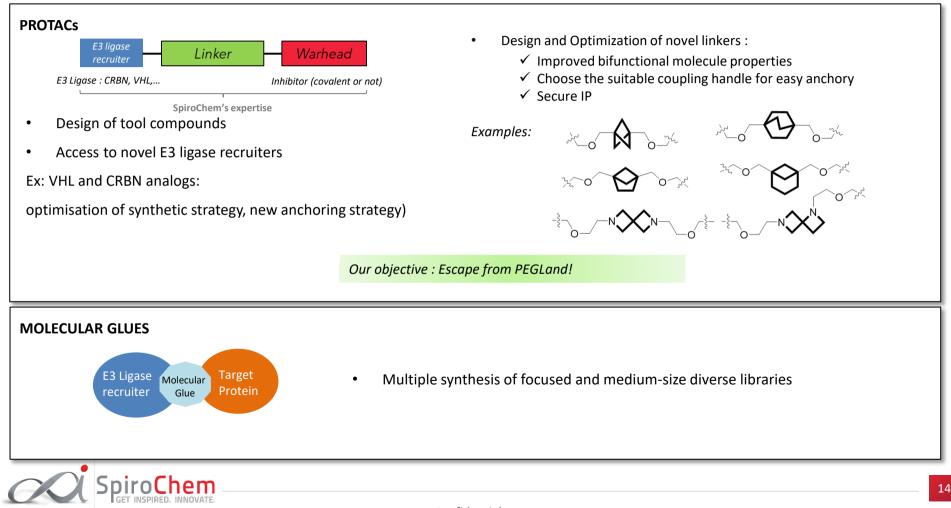


Case Study 2 : Patent Gap Analysis – Novel Hit Identification – Hit-to-Lead



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Expertise in Protein Degraders (multiple projects)



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- Linkers are NOT INERT elements of a bi-functional molecule (Typically 1/3 of MW of bifunctional small molecule)
- Many parameters can be modulated, each with specific applications

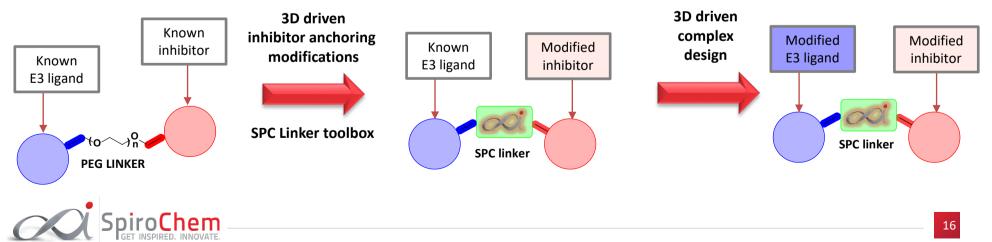


- SpiroChem has expertise in applying SpiroLinkers concepts in:
 - PROTACs
 - Bifunctional molecules (beyond degradation, i.e. polypharmacology)
 - ADCs
 - Chemical Biology tools



Case Study 3 : PROTACS Project

<u>Customer</u> : European Biotech <u>Collaboration</u> : 2 FTEs, 2 months then 4 FTEs, 6 months	<u>Project goal :</u> Design and synthesize novel PROTACS derivatives (oncology program)		
Starting point : moderate active PROTAC : known inhibitor - PEG linker + known E3 ligase ligand	 Deliverables: 15 final compounds Modified E3 ligand produced at 100mg scale and shipped to a low- 		
3D design to suggest new inhibitor anchoring	cost CRO working also on the project		
Complex properties optimization : SPC linker variation	Target amount : 10-15 mg Steps/target : 10-15		
3D design to suggest modified E3 ligand	Number of reactions per week/chemist : 11		



Confidential

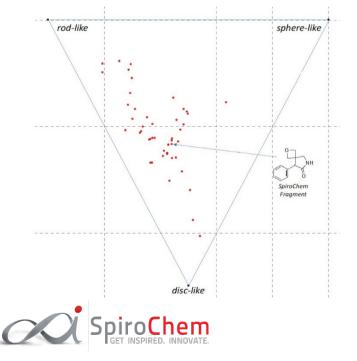
MedChem Enabling Platform

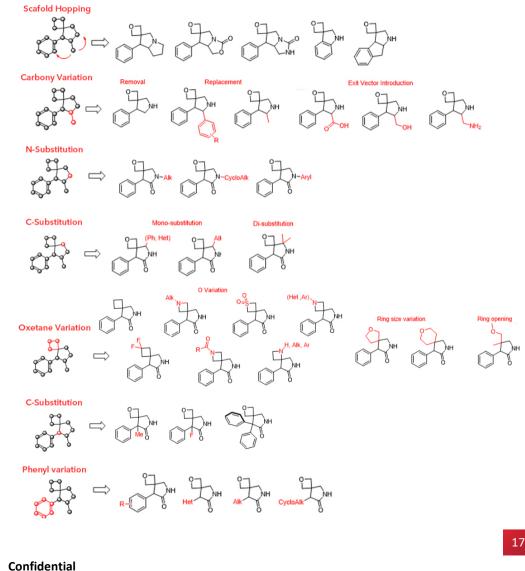
Goal : Unleash design potential by reducing synthetic challenges

NOVEL chemical space made accessible

HOW:

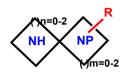
- Opening of new exit vectors
- Implementation of late-stage functionalization strategy
- Preparation of focused smart sets of novel compounds





Case Study 1 – Preparation of novel spirocycles

<u>Customer</u>: European Big Pharma <u>Collaboration</u>: 2 FTEs, 3 months



<u>Project goal</u>: Preparation of novel spirocycles for a high-priority MedChem program (properties optimization + IP securing)





NP : N-Protected

13 requested spirocycles Objective : Use SpiroChem knowledge and knowhow to get fast and efficient access to the spiro monomers

- Deliverables:
- 8 completed compounds
- 4 compounds obtained as advanced intermediates
- 1 not started

Amount : 20 - 600mg Average steps/target : 7.2 Number of reactions per week/chemist : 11 Customer's feedback:

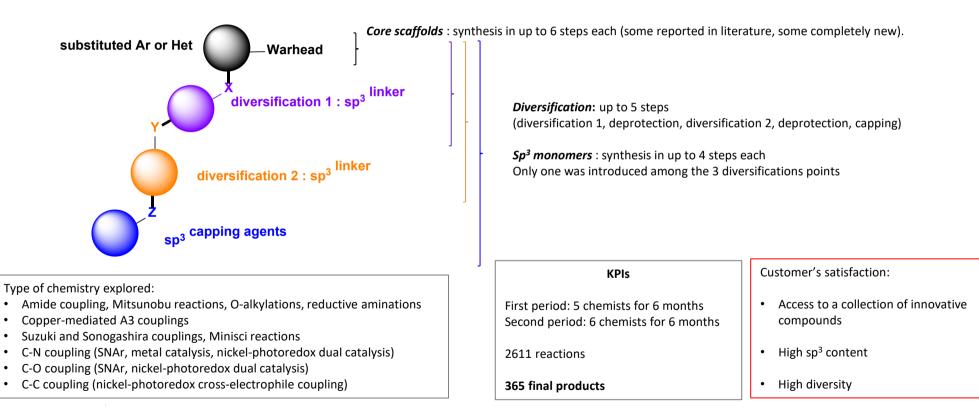
- High-level technical input
- Fast problem solving
- Transfer of valuable knowledge
- High responsiveness
- Seamless communication



Case Study 2 – Molecular Glues project

US Biotech Company, 12-month collaboration, 5 to 6 chemists

Goal of the project: synthesize focused sets in the field of molecular glues using standard like warhead derivatives and focusing on diversity leveraging high sp³ content



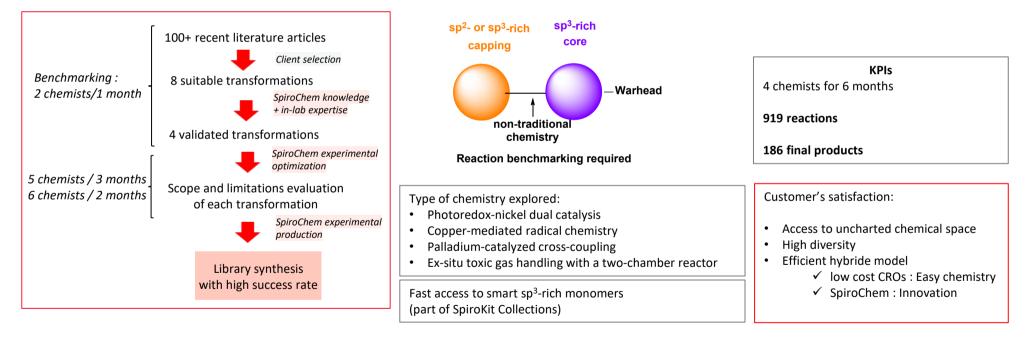


Case Study 3 – Covalent Fragment Set

US Biotech Company, 6-month collaboration

Goal of the project: Explore, unlock and exemplify innovative chemistry for covalent fragment synthesis, focusing on druglikeness and library diversity leveraging high sp³ content and heteroaromatic scaffolds.

Project workflow:





SpiroChem's Portfolio of Bioisoteric Solutions – sp² to sp³ switch

Many sp²-rich lead molecules fail due their propensity to generate reactive metabolites or because of their poor pharmacokinetic properties. Switching to sp³ modules give opportunity to modulate the PhysChem and ADME properties but also to fine tune the geometry of the molecule and have a direct impact on the activity and selectivity.

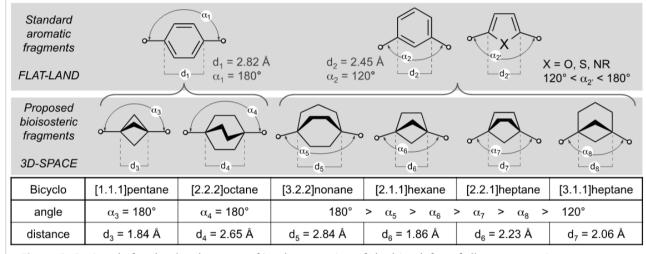


Figure 2. Rationale for the development of implementation of the bicyclo[*x.y.z*]*alkane repertoire*

