

who?

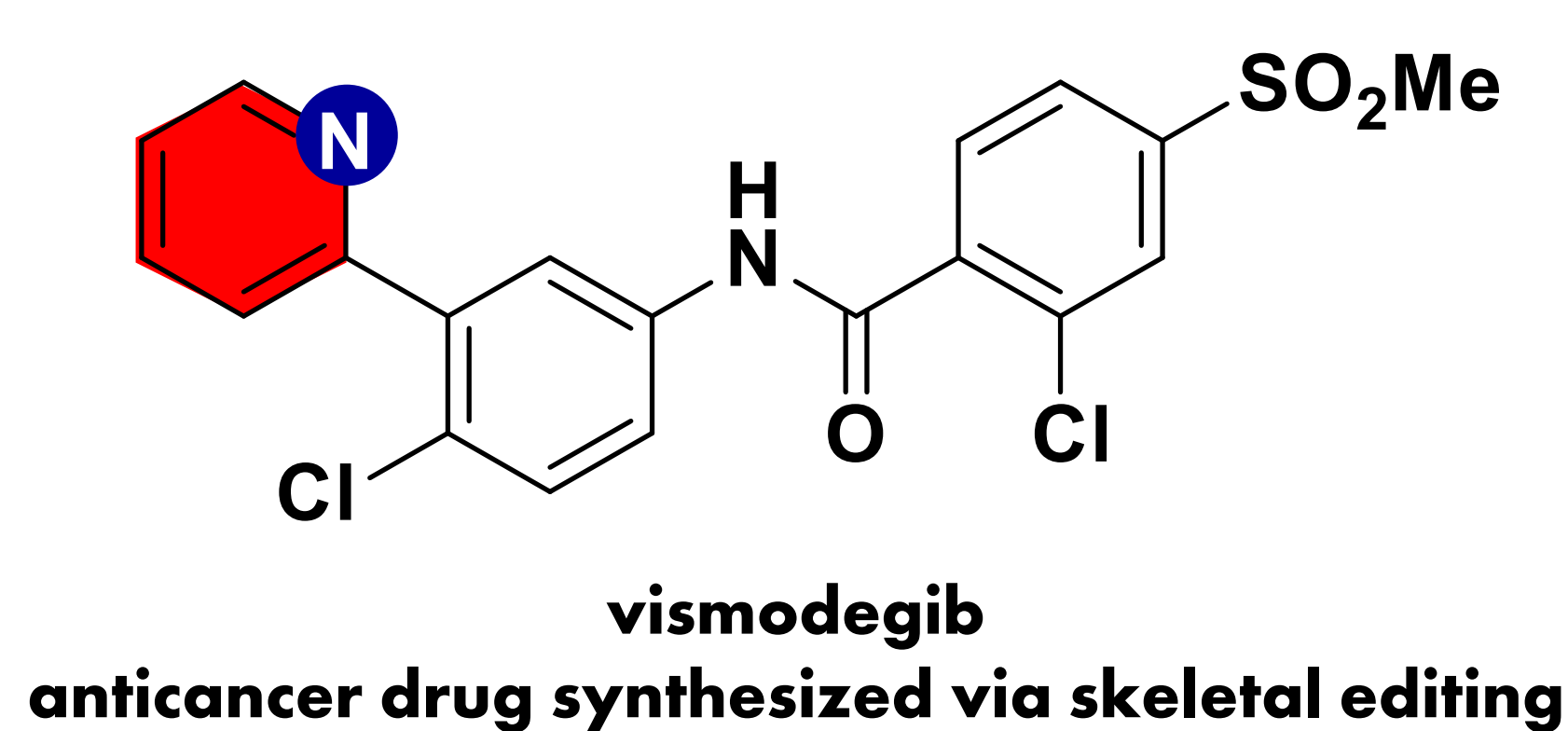
Reza Kordnezhadian, PhD
Zofia Porębska
Marta Świątkowska
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You?



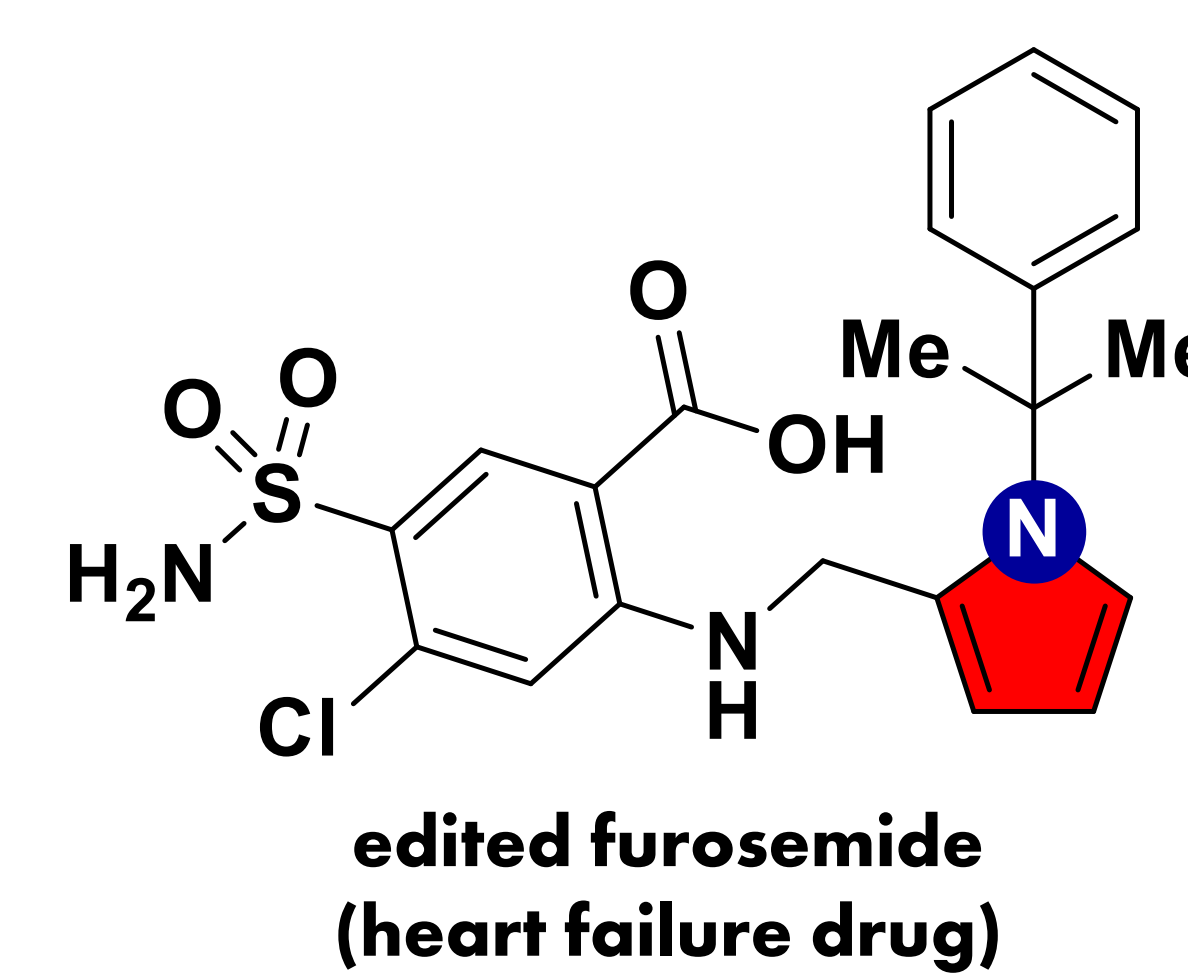
transition metals
organic synthesis
skeletal editing
C-H functionalization
late-stage functionalization
C-H activation
nitrogen insertion
catalysis
photochemistry
optimization
medicinal chemistry
reaction discovery

what?

development of innovative synthetic methods at the interface of:

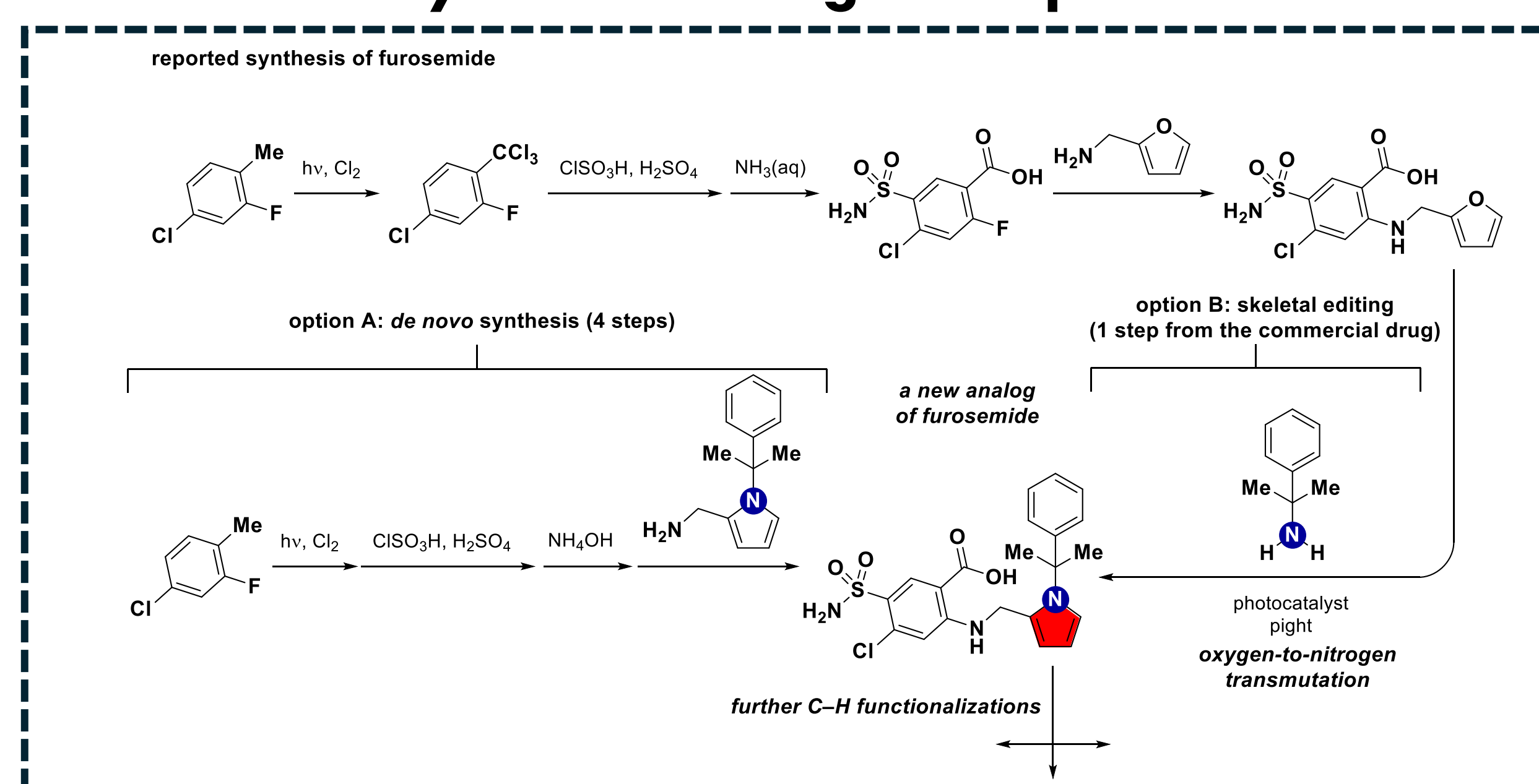


late-stage modification of
complex molecules

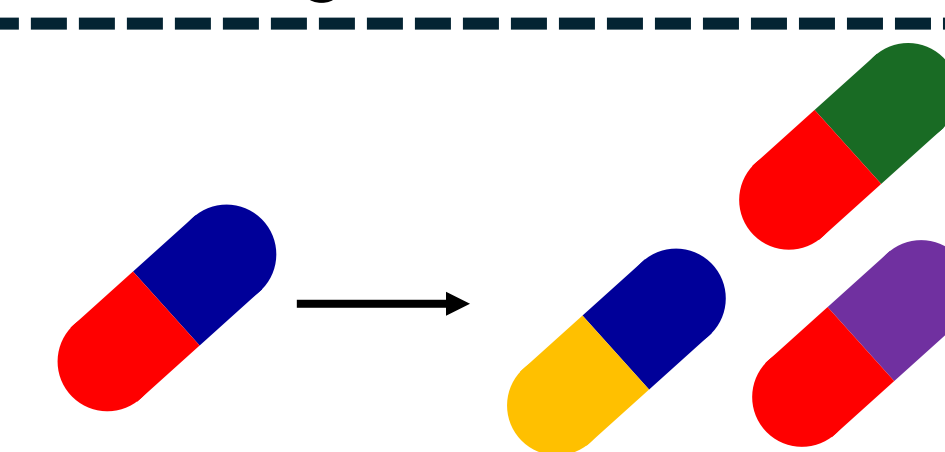


why?

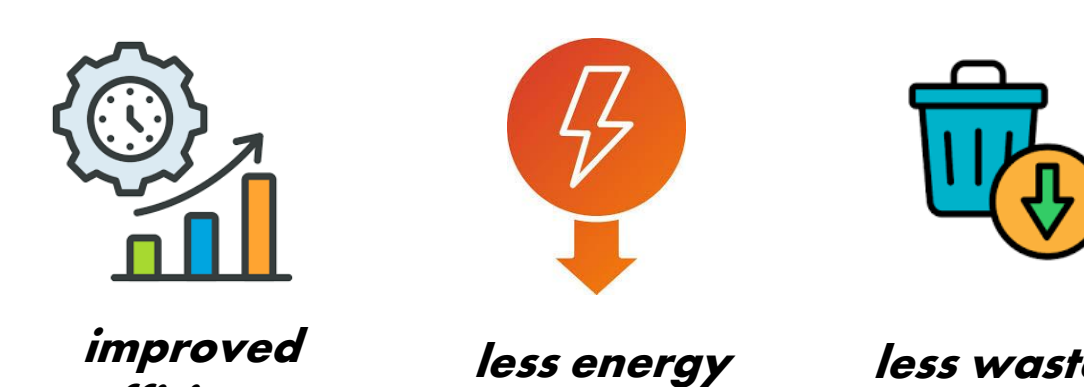
skeletal editing can make *de novo*
synthesis a thing of the past!



easy access to a broader range
of analogs = faster SAR studies



towards improved practicality



how?

we implement both classical and modern laboratory techniques

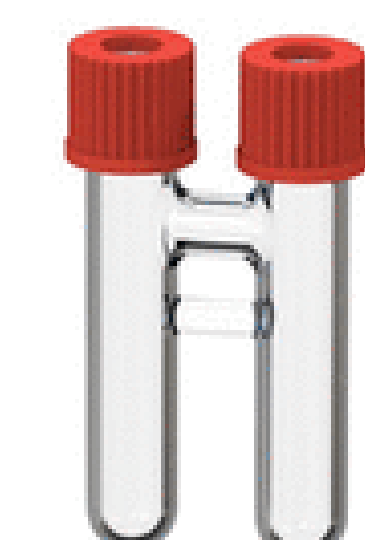
by working with us, you will gain hands-on experience in
modern and fast-growing areas of organic chemistry:

- organic synthesis
- skeletal editing
- C-H functionalization
- fluorine chemistry
- photochemistry
- catalysis
- chromatography
- spectroscopy

you will learn modern techniques and work with
advanced laboratory equipment



photochemistry setup



two-chamber
reactors



Schlenk techniques



GC & NMR analysis



purification techniques



more?

available positions:

- master's student (stipend: 3000 PLN)
- PhD student (stipend: 5000 PLN)
- bachelor students

funding:

National Science Centre, Poland
project: „Late-stage C-H functionalization of
complex molecules aided by single-atom editing”
(SONATA UMO-2023/51/D/ST5/02947)



thesis topics available (selected examples):

- ruthenium-catalyzed tandem N-insertion/C-H functionalization of arenes
- vitamin B₁₂-catalyzed skeletal editing
- skeletal editing with *ex-situ* generated gaseous reagents

contact us for an informal meeting
or to schedule a lab tour:

tj.wdowik@uw.edu.pl
[https://ptomf.chem.uw.edu.pl/overview/
wdowiks-group/](https://ptomf.chem.uw.edu.pl/overview/wdowiks-group/)



join our team and help discover
the next generation of chemical reactions!