

Goethe-Universität Frankfurt am Main Johannes Gutenberg-Universität Mainz Technische Universität Darmstadt Eine strategische Allianz



Open Science Day @RMU - November 30, 2022 OpnMe.com

Boehringer Ingelheim's open innovation portal Markus Koester

opnMe.com of Boehringer Ingelheim: An innovative #openscience approach in the digital era to foster research for potential new therapeutic concepts of the future





Goals of the workshop today



Advocacy for Open Science and its potential for academic research aimed to provide better treatment options for patients (humans or animals)

Increase awareness about open innovation portals and what potential they have for your daily research practice

Deep-dive into opnMe.com including some success examples

Attract new users and create word of mouth

Learn about you and your current "situation"











Chemicalprobes.org



Nucleic Acids Res, gkac909, <u>https://doi.org/10.1093/nar</u> /gkac909

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🛗 Oct. 13, 2022

P&D 03.2022 released with extended downloads, intersection matrix and free chemical probes

This year's third version of the Probes & Drugs portal (ver. 03.2022) was released with <u>up-to-date compound sets</u>, an extended downloads section, a new intersection matrix visualisation and <u>a set of chemical probes you can get for free</u>.



All of the major chemical probes compound sets (Chemical Probes Portal, SGC Donated Probes, opnMe portal) were updated to their latest versions as well as all the major data sources (ChEMBL, BindingDB, GtoPDB, DrugCentral, DrugBank, etc.). Along with these, also our High-quality chemical probes compound set was updated with several new probes, counting 691 compounds in its current version. A significant part of the HQCP set is composed of chemical probes that can be acquired (in a limited volume/concentration) for free from SGC Frankfurt (SGC Donated Probes) or Boehringer Ingelheim (opnMe portal). From ver. 03.2022, all free chemical probes can be easily filtered by the free-of-charge tag filter. Currently, there are 158 such probes.

From this version on, we significantly extended our <u>downloads section</u> where, apart from the whole database dump, you can also find several csv/sdf/xlsx files containing data about compound structures, their mapping to other databases, bioactivities, and extensive data set focused only on compounds labelled as chemical probes. In 2021, we used data in the exact same format as the basis for our comparative study <u>Will the chemical probes please stand up</u>? in <u>the RSC Medicinal Chemistry special issue on chemical probes</u>.

Source: https://www.probes-drugs.org/news#46



Structural Genomics Consortium

Science



SGC

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Pioneering Science to Inspire Pioneering Medicines



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People

The SGC catalyses research in new areas of human biology and drug discovery by focusing explicitly on less well-studied areas of the human genome .

The SGC accelerates research in these new areas by making all its research output available to the scientific community with no strings attached, and by creating an open collaborative network of scientists in hundreds of universities around the world and in nine global pharmaceutical companies.

#neuro

Together, this network of academic and industry scientists is driving a new scientific and drug discovery ecosystem whose primary aim is to advance science and is less influenced by personal, institutional or commercial gain.

Source: https://www.thesgc.org/about/what_is_the_sgc



opnMe.com – Molecules for free. Collaborations for Science

O Search

News & Outreach *





opnMe.com – Molecules for free. Collaborations for Science





	AstraZeneca	NovoNordisk	Takeda	opnMe.com
Preclinical tool compound sharing	1	✓		
Clinical compounds	\checkmark			
Tools for collaboration				
Target identification (library access)	×			
Pharmacological questions	Co-Solve (end of 2022?)	Currently not open	Currently not open (Therapy and Technology Questions)	opn2EXPERTS (currently 3 questions open)
Research funding	✓ (For Co- Solve)		✓ (only questions)	 ✓ (For M4C and opn2EXPERTS)
Sustainability	 ✓ (Via Co- Solve) 			
IP conditions addressed	×	✓ (For molecules)	✓	✓
Webinars				\checkmark
9	opnMe.com – Me	olecules for free. Collabo	prations for Science	Boehringer Ingelheim



Molecules for free. Collaborations for Science Add the spark to ignite innovation Visit <u>https://opnme.com</u>

opnMe.com gives scientists access to selected, well-characterized best-in-class molecules

Molecules to Order – M2O are provided free- of-charge without the need to enter into intellectual property discussions

Molecules for Collaboration – M4C invites scientists to submit research proposals to use our unique molecular probes

By sharing precisely-formulated scientific technology questions, opn2EXPERTS provides the collaboration platform to deliver innovative solutions





Boehringer Ingelheim's Open Innovation portal



Molecules to Order are provided free-of-charge without the need to enter into intellectual property discussions.

Status Oct 1, 2022: 74 M2O molecules >1,643 placed orders from over 50 countries







Publication impact based on our molecules

opnMe

Since opnMe's launch, shared molecules have generated more than 80 independent publications*.





Molecules for collaboration: opn2SCREEN molecule library

Ongoing



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Oct 10 - Dec 12, 2022

We offer our entire collection of 74 well-characterized and high-quality molecules with 55 negative controls for a limited period only.

Exclusive collection will be shipped in customized 384 well tube racks with tubes containing 40 μ l of a 10 mM DMSO stock solution.

Apply with your research objectives, requirements today







Boehringer Ingelheim's Open Innovation portal



By sharing preciselyformulated scientific technology questions, opn2EXPERTS provides the collaboration platform to deliver innovative solutions.

Launched 2020, Status Nov 30, 2022 26 questions | 629 proposals | 61 countries



opn2EXPERTS: First call on higher sustainability in pharma processes launched today



How would you propose to reduce water and/or energy consumption in future bioprocesses?



The downstream processing of biologics is very resource intensive.

With our first joint More Green Grant / opnMe project, we hope to find new solutions to minimize the environmental footprint of future medicines through sustainable science and technology.

If you proposal was selected, you would be able to work closely with our Sustainability team and access funding of up to USD 80,000.



opnMe.com – Molecules for free. Collaborations for Science

Ongoing

Nov 30 - Feb 15, 2023

opn2EXPERTS: Harness liver's regenerative capacity for late-stage NASH

How would you propose to harness the regenerative power of the liver to as a novel intervention against late-stage NASH?



Oct 17 - Dec 15, 2022



Ongoing

The liver has shown remarkable regenerative capabilities after acute injury or resection. However, liver failure in late-stage NASH is characterized by loss of function due to a loss of hepatocyte mass.

Share your proposals describing innovative *in vitro* assay systems, or *in vivo* models that allow the identification and validation of targets to prevent liver failure in late-stage NASH.

Funding up to 200,000 euros



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New on opnMe: Have you considered joining a high performing research team focusing on NASH? Find out how to join Anthony' Azzara's group.

11 November 2022





Currently, Anthony has a few open positions. Apply directly through the following links:

- SR Principal/Principal Scientist, Cardiometabolic-223358
- SR Principal/Principal Scientist, Cardiometabolic-224237
- Scientist II, Cardiometabolic-223364

As part of your application, please use the code "opnMe". Many thanks.





How to learn about news from opnMe?



Dear #Researchers, using novel cellular systems, how would you recapitulate aspects of the immune suppressive tumor environment of metastatic colorectal

cancer with the goal to identify new therapeutic approaches? Apply now ...see more



Accelerate the field with a new model opnme.com • 2 min read



https://www.linkedin.com/company /boehringer-ingelheim/



...

Cool new joint project between **#boehringer** IU Sustainability More Green Grant Program and **#opnMe**. Win up to USD 80,000 for an innovative proposal to make biologics downstream processes more sustainable. Congratulations to Frank Roschangar, Fabian Stiefel, and Simon Kluters.



Apply now on opnMe: Reduce water and energy consumption in downstream bioprocesses

Boehringer Ingelheim Invites Proposals to Address Water & Energy Use in Biologicals communities.acs.org + 2 min read





Markus Koester @koester_markus · Oct 24

#RESEARCHERS: The liver shows remarkable regenerative capabilities. How would you propose to harness the molecular mechanisms of its regenerative power as a novel intervention approach against late-stage NASH? More on #opnMe bit.ly/3e9ddGY #openscience #boehringer



Apply molecular insights of liver regeneration



@koester_markus



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