

# Novel targets for drug development

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## Pharmaceuticals



Join us in developing new therapeutic approaches for diseases with high unmet medical needs.



Apply for funding to promote your research and explore novel targets for drug development.

**Submission ends March 31st, 2019**

**SUBMIT PROPOSAL**



**WHAT WE ARE FUNDING**



We are offering grants for researchers investigating novel drug targets in the fields of the indications listed below to promote innovative therapeutic ideas from basic research into novel drugs.

We provide financial support to test your hypothesis, start or extend your present research activities.

**We are looking for novel targets for the following indications:**

- + Oncology

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- + Gynecology

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- + Heart & Vascular Diseases

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- + Specialty Lung Diseases

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- + Kidney Diseases

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- + Hemostatic & Acute Organ Disorders

**What is a Target?**

- Target must be a nucleic acid or a protein (e.g. an enzyme, a receptor) whose activity can be modified by a drug (drug can be a small-molecular-weight chemical compound or a biological, such as an antibody or a recombinant protein)
- Target should have shown to be effective/mechanistically involved in the disease by relevant in vitro or in vivo models
- Target is disease-modifying and/or has a proven function in the pathophysiology of a disease



**YOUR BENEFITS**



Financial Support

There are two types of grants, that will be allocated by Bayer depending on the target, the scientific data provided and the maturity of the proposal.

**Support grants (€ 5,000 - €10,000)\***

For druggable targets that are at a very early stage of discovery.

**Focus grants (€ 10,000 - €125,000)\***

For more mature ideas, e.g. to address specific aspects of a target as a first step towards transferring it to the drug discovery process.

\* The size of the individual grant will depend on the target specifics and the phase of development and validation.

**Conditions**

- The decision on grant allocation is made at the sole and absolute discretion of Bayer.
- The applicant will retain ownership of any intellectual property he or she develops.
- Special conditions may apply for proprietary targets and the in-licensing of targets.

Grants may be complemented by

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Small Molecule Tool  
Compounds

Within Bayer's Compound Collection, we may have chemical probes to support your target validation efforts. Please indicate in your application which requirements potential tool compounds should fulfill.



Antibodies

Bayer's Antibody Discovery unit may be able to support your target validation work. Recombinant antibody engineering technology can be used to generate suitable antibodies for your validation needs.

Please specify which in vitro/in vivo models you'll be using and the requirements potential tool antibodies should fulfill.

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## Technology platforms

We can offer access to different technologies to assist in your target validation, e.g. gene expression profiling or other state-of-the-art research technologies. Please detail your research interest for the technology platforms in the online submission.

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## Further Collaboration

Successful projects supported by the grant may lead to further collaboration.

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## **APPLICATION PROCESS**

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## **1. CREATE AN ACCOUNT**

Grant applications can only be submitted via the online submission platform ScholarOne™.

As first step, you'll have to create an account in the Grants4Targets Submission central.



## **2. SUBMIT YOUR TARGET IDEA**

**Deadline 31st of March 2019**

You'll need to submit an abstract describing your idea and target, its characteristics and a separate description of its therapeutic potential.

Please note that only non-confidential information should be provided.



## **3. EVALUATION OF PROPOSALS**

**6 - 8 weeks after deadline**

The information provided will be evaluated by Bayer scientific experts. The decision on amount of funding is dependent on the specific target and research plan proposed.



## 4. PROJECT STARTS

**From October 2019**

Successful applicants will be notified by Bayer and will receive further instructions concerning the grant. A Bayer caretaker will be in contact with you during the grant period.



### **READY, SET, SUBMIT**



To submit, you will be redirected to ScholarOne™ online submission platform. All the information provided has to be non-confidential to allow a first evaluation of the proposal.

#### **Please include the following information in your submission:**

- Proposal abstract (max. 2000 characters)

Describe your idea and target, its characteristics (indication and treatment paradigm, the target's druggability, and patent status).

Please indicate in the abstract if any particular data can only be disclosed under a Confidential Disclosure Agreement (CDA). In case your application is considered for further evaluation, we may contact you to discuss a CDA.

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- Description of therapeutic potential of the target

To assist in the grant allocation, the proposal should include a detailed description of the target proposed, the phase of discovery, and further research plans.

This information can be provided as PDF-Documents which can be attached to the application.

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- Upload CV and relevant publications

These supplements are to assist the scientific reviewers. The publications attached do not necessarily have to originate from yourself / your research group. Please attach the most relevant publications describing the target and its functional relevance for the indicated disease.

## GO TO SUBMISSION

(<http://mc.manuscriptcentral.com/grants4targets>)



## WORDS FROM OUR PARTNERS

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## PUBLICATIONS

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- ↗ Gashaw I., et al., 2011. What makes a good drug target? (<http://www.ncbi.nlm.nih.gov/pubmed?term=21945861>)
- ↗ Kortylewicz Z., et al., 2012. Targeted molecular radiotherapy of cancer: Synthesis and Biological Evaluation (<http://www.ncbi.nlm.nih.gov/pubmed/22339166>)
- ↗ Lessl M., et al., 2011. Crowd sourcing in drug discovery (<http://www.nature.com/nrd/journal/v10/n4/full/nrd3412.html>)

- ↗ Stebbing J, et al., 2013. LMTK3 is implicated in endocrine resistance via multiple signaling pathways  
Oncogene  
(<http://www.ncbi.nlm.nih.gov/pubmed/22869149>)
- ↗ Suo G., et al., 2014. Telomerase expression abrogates rapamycin-induced irreversible growth arrest of uterine fibroid smooth muscle cells.  
(<http://www.ncbi.nlm.nih.gov/pubmed/24784716>)
- ↗ Shahraz A., et al., 2015. Anti-inflammatory activity of low molecular weight polysialic acid on human macrophages.  
(<http://www.ncbi.nlm.nih.gov/pubmed/26582367>)
- ↗ Dorsch H., et al., 2015, Grants4Targets: an open innovation initiative to foster drug discovery collaborations.  
(<http://www.ncbi.nlm.nih.gov/pubmed/25430867>)

## MORE OPEN INNOVATION BY BAYER



Grants4Targets™ Pharmaceuticals

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(<https://twitter.com/BayerPharma>)

(<https://www.youtube.com/channel/UCpFVfbgn8hPyp6McG7M9-wA>)

**Let's bring great  
ideas to life.**



Join us in Open Innovation.

Find opportunities to collaborate with Bayer for new solutions in life science on our Open Innovation platform.

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