

## Publication List

69. D. H. Schwarz, W. A. M. Elgaher, K. Hollemeyer, A. K. H. Hirsch, G. Wenz, *J. Mat. Chem. B.* **2019**, DOI: 10.1039/C9TB00560A. Reversible immobilization of a protein to a gold surface through multiple host-guest interactions. [web](#)
68. A. M. Hartman, R. M. Gierse, A. K. H. Hirsch, *Eur. J. Org. Chem.* **2019**, 3581–3590. Protein-templated Dynamic Combinatorial Chemistry: brief overview and experimental protocol. [web](#)
67. P. Bentler, K. Bergander, C. G. Daniliuc, C. Mück-Lichtenfeld, R. P. Jumde, A. K. H. Hirsch, R. Gilmour, *Angew. Chem. Int. Ed.* **2019**, *58*, 10990–10994. Inverting Small Molecule–Protein Recognition by the Fluorine Gauche Effect: Selectivity Regulated by Multiple H→F Bioisosterism. [web](#)
66. D. Prismawan, R. van der Vlag, H. Guo, F. J. Dekker, A. K. H. Hirsch\*, *Helv. Chim. Acta* **2019**, *102*, 1900040: *special edition for F. Diederich's retirement*. Replacement of an Indole Scaffold targeting human 15-Lipoxygenase-1 using Combinatorial Chemistry. [web](#)
65. H. Guo, I. Verhoek, G. Prins, P. Olinga, R. van der Vlag, A. K. H. Hirsch, P. Ettema, F. J. Dekker, *J. Med. Chem.* **2019**, *62*, 4624–4637. Novel 15-LOX-1 Inhibitor Protects RAW 264.7 Macrophages from LPS-induced Cytotoxicity. [web](#)
64. J. Li, L. Soliany, N. Schmidt, B. Baker, S. Gottardi, J. C. Moreno Lopez, L. Monjas, R. van der Vlag, A. K. H. Hirsch, M. Stöhr, *Small* **2019**, *123*, 12730–12735. Low-dimensional metal-organic coordination structures on graphene. [web](#)
63. C. Simhadri, K. D. Daze, S. F. Douglas, A. Dev, L. Monjas, N. Milosevich, A. K. H. Hirsch, J. E. Wulff, F. Hof, *ChemMedChem* **2019**, *14*, 1444–1456. Rational adaptation of L3MBTL1 inhibitors to create small-molecule Cbx7 antagonists. [web](#)
62. R. van der Vlag, H. Guo, U. Hapko, N. Eleftheriadis, L. Monjas, F. J. Dekker, A. K. H. Hirsch, *Eur. J. Med. Chem.* **2019**, *174*, 45–55. A Combinatorial Approach for the Discovery of Drug-Like Inhibitors of 15-Lipoxygenase-1. [web](#)
61. N. Schmidt, J. Li, S. Gottardi, J. C. Moreno-Lopez, M. Enache, L. Monjas, R. van der Vlag, R. W. A. Havenith, A. K. H. Hirsch, M. Stöhr, *Chem. Eur. J.* **2019**, *25*, 5065–5070. Comparing the Self-Assembly of Sexiphenyl-Dicarbonitrile on Graphite and Graphene on Cu(111). [web](#)
60. I. Lozinska, A. Swierczynska, Z. Moleda, A. M. Hartman, A. K. H. Hirsch, Z. Czarnocki, *Arch. Pharm.* **2018**, *351*, 1800194. Donepezil-Melatonin Hybrids as Butyrylcholinesterase Inhibitors: Improving Binding Affinity Through Varying Mode of Linking Fragments. [web](#)
59. S. Della Volpe, R. Nasti, M. Queirolo, M. Y. Unver, V. R. Jumde, A. Dömling, F. Vasile, D. Potenza, F. A. Ambrosio, G. Costa, S. Alcaro, C. Zucal, A. Provenzani, M. Di Giacomo, D. Rossi, A. K. H. Hirsch\*, S. Collina, *ACS Med. Chem. Lett.* **2018**. Identification of novel compounds targeting the RNA-binding protein HuR. Structure-based design of synthesis and interaction studies. [web](#)
58. S. Bousis, I. Setyawati, E. Diamanti, D. J. Slotboom, A. K. H. Hirsch\*, *Adv. Ther.* **2018**, *2*, 1800066. Energy-Coupling Factor (ECF) Transporters as Novel Antimicrobial Targets. [web](#)

57. F. Vasile, S. Della Volpe, F. A. Ambrosio, G. Costa, C. Zucal, M. Y. Unver, D. Rossi, A. Provenzani, A. K. H. Hirsch, S. Alcaro, D. Potenza, S. Collina, *Sci. Rep.* **2018**, *8*, 13780. Exploration of ligand-binding modes towards the identification of compounds targeting HuR: a combined STD-NMR and Molecular Modeling approach. [web](#)
56. V. R. Jumde, M. Mondal, R. M. Gierse, M. Y. Unver, F. Magari, R. C. W. van Lier, A. Heine, G. Klebe, A. K. H. Hirsch\*\*, *ChemMedChem* **2018**, *13*, 2266-2270. Design and Synthesis of Bioisosteres of Acylhydrazones as Stable Inhibitors of the Aspartic Protease Endothiapepsin. [web](#)
55. Y. Liu, M. C. A. Stuart, E. Buhler, A. K. H. Hirsch\*, *Macromol. Rapid Commun.* **2018**, *39*, 1800099. Dynamic Proteoids Generated From Dipeptide-Based Monomers. [web](#)
54. Y. Liu, I. Sophie, T. Bos, T. A. Oenema, H. Meurs, H. Maarsingh, A. K. H. Hirsch\*\*, *Eur. J. Pharm. Biopharm.* **2018**, *130*, 123-127. Delivery Systems for Budesonide Based on Lipid-DNA. [web](#)
53. M. Y. Unver, R. M. Gierse, H. Ritchie, A. K. H. Hirsch\*\*, *J. Med. Chem.* **2018**, *61*, 9395-9409. Druggability Assessment of Targets Used in Kinetic Target-Guided Synthesis. [web](#)
52. E. M. Te Poele, T. Devlamynck, M. Jäger, G. J. Gerwig, D. van de Walle, K. Dewettinck, A. K. H. Hirsch, J. P. Kamerling, W. Soetaert, L. Dijkhuizen, *Sci. Rep.* **2018**, *8*, 1516. Glucansucrase (mutant) enzymes from *Lactobacillus reuteri* 180 efficiently transglucosylate *Stevia* component rebaudioside A, resulting in a superior taste. [web](#)
51. Y. Liu, J. W. de Vries, Q. Liu, A. M. Hartman, G. D. Wieland, S. Wieczorek, H. G. Börner, A. Wiehe, E. Buhler, M. C. A. Stuart, W. R. Browne, A. Herrmann, A. K. H. Hirsch\*, *Chem. Eur. J.* **2018**, *24*, 798-802. Lipid-DNAs as Solubilizers of *m*THPC. [web](#)
50. A. Marcozzi, T. Masini, D. Zhu, D. Pesce, B. Illarionov, M. Fischer, A. Herrmann, A. K. H. Hirsch\*, *ChemBioChem.* **2018**, *19*, 58-65. Phage Display on the Anti-infective Target 1-Deoxy-d-xylulose-5-phosphate Synthase Leads to an Acceptor-Substrate Competitive Peptidic Inhibitor. [web](#)
49. L. Monjas, L. J. Y. M. Swier, I. Setyawati, D. J. Slotboom, A. K. H. Hirsch\*, *ChemMedChem* **2017**, *12*, 1693-1696. Dynamic Combinatorial Chemistry to Identify Binders of ThiT, an S-Component of the Energy-Coupling Factor Transporter for Thiamine. [web](#)
48. Y. Liu, M. C. A. Stuart, M. D. Witte, E. Buhler, A. K. H. Hirsch\*, *Chem. Eur. J.* **2017**, *23*, 16162–16166. Saccharide-Containing Dynamic Proteoids. [web](#)
47. R. Nasti, D. Rossi, M. Amadio, A. Pascale, M. Y. Unver, A. K. H. Hirsch, S. Collina, *J. Med. Chem.* **2017**, *60*, 8257-8267. Compounds Interfering with Embryonic Lethal Abnormal Vision (ELAV) Protein–RNA Complexes: An Avenue for Discovering New Drugs. [web](#)
46. A. M. Hartman, A. K. H. Hirsch\*\*, Molecular Insight into Specific 14-3-3 Modulators: Inhibitors and Stabilisers of Protein-Protein Interactions of 14-3-3. *Eur. J. Med. Chem.* **2017**, *136*, 573–584. [web](#)
45. R. M. Gierse, E. Reddem, E. Diamanti, C. Wrenger, M. R. Groves, A. K. H. Hirsch\*\*. *Fut. Med. Chem.* **2017**, *9*, 1277-1294. DXS as a target for structure-based drug design. [web](#)
44. L. Monjas, L. J. Y. M. Swier, F. Reebing, M. M. Bakker, T. Ritschel, I. Faustino, S. J. Marrink, Hirsch, A. K. H., D. J. Slotboom, *MedChemComm.* **2017**, *8*, 1121-1130. Insight into the complete substrate-binding pocket of ThiT by chemical and genetic mutations. [web](#)

43. M. Scheepstra, S. A. Andrei, M. Y. Unver, A. K. H. Hirsch, S. Leysen, C. Ottmann, L. Brunsveld, L.-G. Milroy. *Angew. Chem. Int. Ed.* **2017**, *56*, 5480–5484; *Angew. Chem.* **2017**, *129*, 5572–5576. Designed Spiroketal Protein Modulation. [web](#)
42. R. van der Vlag, A. K. H. Hirsch\*\*, Analytical Methods in Protein-Templated Dynamic Combinatorial Chemistry, *in* Comprehensive Supramolecular Chemistry II, Elsevier **2017**, *5*, 487-509. [web](#)
41. Y. Liu, J.-M. Lehn, A. K. H. Hirsch\*, *Acc. Chem. Res.* **2017**, *50*, 376-386, Molecular Biodynamers: Dynamic Covalent Analogues of Biopolymers. [web](#)
40. P. Dockerty, J. G. Edens, M. B. Tol, D. Morales Angeles, A. Domenech, Y. Liu, A. K. H. Hirsch, J.-W. Veening, D.-J. Scheffers, M. D. Witte, *Org. Biomol. Chem.* **2017**, *15*, 894-910. Bicyclic enol cyclocarbamates inhibit penicillin-binding proteins. [web](#)
39. D. Morales Angeles, Y. Liu, A. M. Hartman, M. Borisova, A. de Sousa Borges, N. de Kok, K. Beilharz, J.-W. Veening, C. Mayer, A. K. H. Hirsch, D.-J. Scheffers, *Mol. Microbiol.* **2017**, *104*, 319-333. Pentapeptide-rich peptidoglycan at the Bacillus subtilis cell-division site. [web](#)
38. S. Wieczorek, D. Remmler, T. Masini, Z. Kochovski, A. K. H. Hirsch, H. G. Börner, *Bioconjugate Chem.* **2017**, *28*, 760–767. Fine-tuning Nanocarriers Specifically toward Cargo: A Competitive Study on Solubilizing Related Photosensitizers for Photodynamic Therapy. [web](#)
37. M. Mondal, M. Y. Unver, A. Pal, M. Bakker, S. P. Berrier, A. K. H. Hirsch\*\*, *Chem. Eur. J.* **2016**, *22*, 14826-14830. Fragment-Based Drug Design Facilitated by Protein-Templated Click Chemistry: Fragment Linking and -Optimization of Inhibitors of the Aspartic Protease Endothiapepsin. [web](#)
36. M. Mondal, N. Radeva, H. Fanlo-Virgós, S. Otto, G. Klebe, A. K. H. Hirsch, *Angew. Chem. Int. Ed.* **2016**, *55*, 9422–9426; *Angew. Chem.* **2016**, *128*, 9569–9574. Fragment-Linking and -Optimization of Inhibitors of the Aspartic Protease Endothiapepsin: Fragment-Based Drug Design Facilitated by Dynamic Combinatorial Chemistry. [web](#)
35. Y. Liu, M. C. A. Stuart, E. Buhler, J.-M. Lehn, A. K. H. Hirsch, *Adv. Funct. Mat.* **2016**, *26*, 6297-6305. Proteoid Dynamers with Tunable Properties. [web](#)
34. T. Masini, B. Birkaya, S. van Dijk, M. Mondal, J. Hekelaar, M. Jäger, A. C. Terwisscha van Scheltinga, M. S. Patel, A. K. H. Hirsch, E. Moman. *J. Enz. Inh. Med. Chem.* **2016**, *31*, 170-175. Furoates and Thenoates Inhibit Pyruvate Dehydrogenase Kinase 2 Allosterically by Binding to its Pyruvate Regulatory Site. [web](#)
33. L. Monjas, L. J. Y. M. Swier, A. R. de Voogd, R. C. Oudshoorn, A. Guskov, A. K. H. Hirsch, D. J. Slotboom, *MedChemComm* **2016**, *7*, 966–971. Design and synthesis of thiamine analogues to study their binding to the ECF transporter for thiamine in bacteria. [web](#)
32. T. Masini, B. Lacy, L. Monjas, A. R. de Voogd, A. Iqbal, B. Illarionov, F. J. Leeper, M. Fischer, M. Kontoyianni, A. K. H. Hirsch, *Org. Biomol. Chem.* **2015**, *13*, 11263–11277. Validation of a homology model of *Mycobacterium tuberculosis* DXS: rationalization of observed activities of thiamine derivatives as potent inhibitors of two orthologues of DXS. [web](#)

31. L. Monjas, A. K. H. Hirsch, *Future Med. Chem.* **2015**, *7*, 2095–2098. Harnessing dynamic combinatorial chemistry in the search for new ligands for protein targets. [web](#)
30. A. K. H. Hirsch, *Angew. Chem. Int. Ed.* **2015**, *54*, 11013–11014; *Angew. Chem.* **2015**, *127*, 11165–11166. Supramolecular Chemistry ... and Beyond. [web](#)
29. A. M. Hartman, M. Mondal, N. Radeva, G. Klebe, A. K. H. Hirsch, *Int. J. Mol. Sci.* **2015**, *16*, 19184–19194. Structure-Based Optimization of Inhibitors of the Aspartic Protease Endothiapepsin. [web](#)
28. M. Mondal, D. E. Groothuis, A. K. H. Hirsch, *MedChemComm* **2015**, *6*, 1267–1271. Fragment growing exploiting dynamic combinatorial chemistry of inhibitors of the aspartic protease endothiapepsin. [web](#)
27. A. P. Huizing, M. Mondal, A. K. H. Hirsch, *J. Med. Chem.* **2015**, *58*, 5151–5163. Fighting Malaria: Structure-Guided Discovery of Nonpeptidomimetic Plasmeprin Inhibitors. [web](#)
26. M. Mondal, A. K. H. Hirsch, *Chem. Soc. Rev.* **2015**, *44*, 2455–2488. Dynamic combinatorial chemistry: a tool to facilitate the identification of inhibitors for protein targets. [web](#)
25. L. Monjas, L. J. Y. M. Swier, A. R. de Voogd, A. Gustov, D. J. Slotboom, A. K. H. Hirsch, *ChemBioChem* **2015**, *16*, 819–826. Structure-Based Design of Potent Small-Molecule Binders to the S-Component of the ECF-transporter for Thiamine. [web](#)
24. S. Wieczorek, S. Vigne, T. Masini, D. Ponader, L. Hartmann, A. K. H. Hirsch, H. G. Boerner, *Macromol. Biosci.* **2015**, *15*, 82–89. Combinatorial Screening for Specific Drug Solubilizers with Switchable Release Profiles. [web](#)
23. T. Masini, A. K. H. Hirsch, *J. Med. Chem.* **2014**, *57*, 9740–9763. Development of Inhibitors of the 2C-Methyl-D-erythritol 4-Phosphate (MEP) Pathway Enzymes as Potential Anti-Infective Agents. [web](#)
22. T. Masini, J. Kurz, B. S. Kroezen, B. Illarionov, M. Fischer, C. Griesinger, A. K. H. Hirsch, *Chem. Sci.* **2014**, *5*, 3543–3551. *De novo* fragment-based design of inhibitors of DXS guided by spin-diffusion-based NMR spectroscopy. [web](#)
21. A. K. H. Hirsch, C. Sirlin, J. M. Harrowfield, J.-M. Lehn, *CrystEngComm* **2014**, *16*, 5984–5988. A doubly hermaphroditic chiral crown ether. [web](#)
20. M. Scheepstra, L. Nieto, A. K. H. Hirsch, S. Fuchs, S. Leysen, C. V. Lam, L. in het Panhuis, C. A. A. van Boeckel, H. Wienk, R. Boelens, C. Ottmann, L.-G. Milroy, L. Brunsveld, *Angew. Chem. Int. Ed.* **2014**, *53*, 6443–6448; *Angew. Chem.* **2014**, *126*, 6561–6566. A Natural-Product Switch for a Dynamic Protein Interface. [web](#)
19. W. R. Browne, A. K. H. Hirsch, *Materials Views*. From the Cradle of Civilization to the Frontiers in Chemistry. \* [web](#)
18. M. Mondal, N. Radeva, H. Köster, A. Park, C. Potamitis, M. Zervou, G. Klebe, A. K. H. Hirsch, *Angew. Chem. Int. Ed.* **2014**, *53*, 3259–3263; *Angew. Chem.* **2014**, *126*, 3324–3328. Structure-Based Design of Novel Inhibitors of the Aspartic Protease Endothiapepsin Exploiting Dynamic Combinatorial Chemistry. [web](#)
17. A. K. H. Hirsch, P. Reutenauer, M. Le Moignan, J. M. Harrowfield, S. Ulrich, P. D. Jarowski, J.-M. Lehn, *Chem. Eur. J.* **2014**, *20*, 1073–1080. Theoretical and Structural Analysis of Long

C–C Bonds in the Adducts of Polycyanoethylene and Anthracene Derivatives and Their Connection to the Reversibility of Dynamic Diels–Alder Reactions. [web](#)

16. T. Masini, B. S. Kroezen, A. K. H. Hirsch, *Drug Discovery Today* **2013**, *18*, 1256–1262. Druggability of the enzymes of the non-mevalonate-pathway. [web](#)

15. S. Wieczorek, E. Krause, S. Hackbarth, B. Röder, A. K. H. Hirsch, H. G. Börner, *J. Am. Chem. Soc.* **2013**, *135*, 1711–1714. Exploiting Specific Interactions toward Next-Generation Polymeric Drug Transporters. [web](#)

14. P. Mombelli, C. Le Chapelain, N. Munzinger, E. Joliat, B. Illarionov, W. B. Schweizer, A. K. H. Hirsch, M. Fischer, A. Bacher, F. Diederich, *Eur. J. Org. Chem.* **2013**, *6*, 1068–1079. Imidazole- and Benzimidazole-Based Inhibitors of the Kinase IspE: Targeting the Substrate-Binding Site and the Triphosphate-Binding Loop of the ATP Site. [web](#)

13. D. Geerdink, B. ter Horst, A. K. H. Hirsch, M. Gilleron, G. Puzo, M. Lepore, L. Mori, G. de Libero, A. J. Minnaard, *Chem. Sci.* **2013**, *4*, 709–716. Total synthesis, stereochemical elucidation and biological evaluation of Ac<sub>2</sub>SGL; a 1,3-methyl branched sulfoglycolipid from *Mycobacterium tuberculosis*. [web](#)

12. K. Matcha, A. V. R. Madduri, S. Roy, S. Ziegler, H. Waldmann, A. K. H. Hirsch, A. J. Minnaard, *ChemBioChem* **2012**, *13*, 2537–2548. Catalytic Asymmetric Total Synthesis of (□)-Doliculide, Structure-Activity Relationship Studies and Its Binding to F-Actin. [web](#)

11. A. P. Schütz, S. Osawa, J. Mathis, A. K. H. Hirsch, B. Bernet, B. Illarionov, M. Fischer, A. Bacher, F. Diederich, *Eur. J. Org. Chem.* **2012**, *17*, 3278–3287. Exploring the Ribose Sub-Pocket of the Substrate-Binding Site in *Escherichia coli* IspE: Structure-Based Design, Synthesis, and Biological Evaluation of Cytosines and Cytosine Analogues. [web](#)

10. A. K. H. Hirsch, E. Buhler, J.-M. Lehn, *J. Am. Chem. Soc.* **2012**, *134*, 4177–4183. Biodynamers: Self-Organization-Driven Formation of Doubly Dynamic Proteoids. [web](#)

9. J. Y. van der Meer, A. K. H. Hirsch, *Nat. Prod. Rep.* **2012**, *29*, 721–728. The isoprenoid-precursor dependence of *Plasmodium* spp. [web](#)

8. G. Schaeffer, J. M. Harrowfield, J.-M. Lehn, A. K. H. Hirsch, *Polyhedron* **2012**, *41*, 40–43. Metal-ion-induced shape switching: Stereoselective formation of a dinuclear Hg(II) double helicate from a hydrazonebis(acylhydrazone) ligand. [web](#)

7. A. K. H. Hirsch, F. Diederich, M. Antonietti, H. G. Börner, *Softmatter* **2010**, *6*, 88–91. Bioconjugates to specifically render Inhibitors water-soluble. [web](#)

6. A. K. H. Hirsch, M. S. Alphey, S. Lauw, M. Seet, L. Barandun, W. Eisenreich, F. Rohdich, W. N. Hunter, A. Bacher, F. Diederich, *Org. Biomol. Chem.* **2008**, *6*, 2719–2730. Inhibitors of the kinase IspE: structure–activity relationships and co-crystal structure analysis. [web](#)

5. A. K. H. Hirsch, F. Diederich, *Chimia* **2008**, *62*, 226–230. The Non-Mevalonate Pathway to Isoprenoid Biosynthesis: A Potential Source of New Drug Targets. [web](#)

4. C. M. Crane, A. K. H. Hirsch, S. Lauw, F. Rohdich, W. N. Hunter, A. Bacher, F. Diederich, *ChemMedChem* **2008**, *3*, 91–101. Synthesis and Characterization of Cytidine Derivatives that Inhibit the Kinase IspE of the Non-Mevalonate Pathway for Isoprenoid Biosynthesis. [web](#)

3. A. K. H. Hirsch, F. R. Fischer, F. Diederich, *Angew. Chem. Int. Ed.* **2007**, *46*, 338–352; *Angew. Chem.* **2007**, *119*, 342–357. Phosphate Recognition in Structural Biology. [web](#)

2. A. K. H. Hirsch, S. Lauw, P. Gersbach, W. B. Schweizer, F. Rohdich, W. Eisenreich, A. Bacher, F. Diederich, *ChemMedChem* **2007**, *2*, 806–810. Nonphosphate Inhibitors of IspE Protein, a Kinase in the Non-Mevalonate Pathway for Isoprenoid Biosynthesis and a Potential Target for Antimalarial Therapy. [web](#)

1. H. F. Sneddon, A. van den Heuvel, A. K. H. Hirsch, R. A. Booth, D. M. Shaw, M. J. Gaunt, S. V. Ley, *J. Org. Chem.* **2006**, *71*, 2715–2725. Double Conjugate Addition of Dithiols to Propargylic Carbonyl Systems to Generate Protected 1,3-Dicarbonyl Compounds. [web](#)

### Patents (1)

1. A. K. H. Hirsch, J.-L. Reymond, T. Masini, C. Simonin. Antituberculotic Agents. EP15160746.2.

### Book chapters (2)

2. R. van der Vlag, A. K. H. Hirsch, *Concepts in Supramolecular Chemistry II*, 2017, 487–509. Analytical methods in protein-templated dynamic combinatorial chemistry.\*\*

1. A. K. H. Hirsch. *Structure-Based Design on the Way to New Antiinfectives* in “Where Chemistry Meets Life”, Wiley, **2010**. \*\*

### Non-peer-reviewed publications (2)

1. A. K. H. Hirsch, *Nachrichten aus der Chemie* **2018**, *3*, 281–283. Trendbericht: Proteinvermittelte dynamische kombinatorische Chemie.

2. A. K. H. Hirsch, A Novel Approach towards Antimalarials: Design and Synthesis of Inhibitors of the Kinase IspE, *PhD thesis Nr. 17776*, ETH Zurich, **2008**, available online: <https://doi.org/10.3929/ethz-a-005664687>

### Outreach – reports in the press (last year)

1. “Im Kampf gegen resistente Keime”, *National Geographic*, published online 22.1.19: <https://www.nationalgeographic.de/wissenschaft/2019/01/im-kampf-gegen-resistente-keime>.

2. “Design-Moleküle gegen tückische Keime“, website of the Helmholtz association, published online 23.7.18, <https://www.helmholtz.de/aktuell/forscherportraits/Helmholtz>.

3. “Wettlauf mit der Zeit”, *Forum* **2018**, *18*, 27.4.18.: <https://magazin-forum.de/de/node/8839>.

4. “EU-Forschungspreis für Professorin der Saar-Uni”, *Saarbrücker Zeitung*, 26.2.18: [https://www.saarbruecker-zeitung.de/sz-spezial/hochschule/eu-forschungspreis-fuer-professorin-der-saar-uni\\_aid-7620569](https://www.saarbruecker-zeitung.de/sz-spezial/hochschule/eu-forschungspreis-fuer-professorin-der-saar-uni_aid-7620569).

5. “Angriffsstellen für neue Wirkstoffe anders suchen: ERC Starting Grant für Anna Hirsch“, HZI press release, 20.2.18, [https://www.helmholtz-hzi.de/de/aktuelles/news/ansicht/article/complete/angriffsstellen\\_fuer\\_neue\\_wirkstoffe\\_ander\\_s\\_suchen\\_erc\\_starting\\_grant\\_fuer\\_anna\\_hirsch/](https://www.helmholtz-hzi.de/de/aktuelles/news/ansicht/article/complete/angriffsstellen_fuer_neue_wirkstoffe_ander_s_suchen_erc_starting_grant_fuer_anna_hirsch/).