

Prof. Dr. Pierre Stallforth – Curriculum Vitae

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Education, Research Experience, Positions

- 12/2021 Full Professor (W3) of Bioorganic Chemistry and Paleobiotechnology at the **Friedrich Schiller University** of Jena
- 02/2020 Habilitation in Organic Chemistry, Faculty of Earth Sciences and Chemistry, **Friedrich Schiller University** of Jena
- 01/2020 – Head of the Department **Paleobiotechnology** funded by the Werner Siemens-Stiftung at the **Leibniz Institute for Natural Product Research and Infection Biology**, (Hans Knöll Institute, HKI, Jena)
Excellence Cluster, Balance of the Microverse, member of the Executive Board and subgroup coordinator of Research Area A
- 12/2019 – 10/2020 Temporary visiting professorship, Organic Chemistry, **University of Hamburg**
- 12/2013 – 12/2019 Independent Junior Group Leader, **Leibniz Institute for Natural Product Research and Infection Biology**, (Hans Knöll Institute, HKI, Jena)
Dept. of Chemistry of Microbial Communication
- 2/2011 – 11/2013 Postdoc, **Harvard Medical School**, Dept. of Biological Chemistry and Molecular Pharmacology, Boston. Mentor: Prof. Jon Clardy
- 11/2006 – 11/2010 Graduate Studies (Dr. sc. ETH Zurich), **ETH Zurich** and **Max Planck Institute**, Colloids and Interfaces, Biomolecular Systems, Berlin
Supervisor: Prof. Peter H. Seeberger (co-supervisor: Prof. Donald Hilvert)
“*Synthesis of Bacterial Carbohydrates and Glycolipids for Application in Novel Vaccine Strategies*”
- 09/2005 – 07/2006 Master Thesis, **University of Oxford**, Supervisor: Prof. David E. Logan (1st class)
- 10/2002 – 07/2006 MSc Studies Chemistry, St Edmund Hall, **University of Oxford** (1st class, being placed 2nd out of 150 students)

Fellowships, Awards, and Third-Party Funding

- 02/2022 Cozzarelli-Prize of the National Academy of Sciences, USA
- 09/2021 Finalist for the Paul Ehrlich/Ludwig Darmstaedter Young Researcher Award
- 08/2021 2021 International *Dictyostelium* Junior Faculty Award
- 12/2020 Award of the Dr.-Otto-Röhm-Gedächtnisstiftung
- 11/2020 Academy of Science Göttingen: Academy Prize Chemistry, 2020
- 01/2020 Funding by the Werner Siemens-Stiftung
- 10/2020 Funding by the DFG Excellence Cluster Balance of the Microverse
- 05/2019 Beutenberg-Campus Research Prize
- 02/2019 DECHEMA Research Award Natural Product Research
- 11/2018 medac Research Award
- 09/2018 Best Talk, Young Scientists Symposium Bioorganic Chemistry, Bochum 2018
- 07/2018 Max-Buchner-Stipend of the DECHEMA
- 06/2018 Boehringer Ingelheim Exploration Grant
- 03/2018 DFG Research Grant STA1431/3-1
- 08/2017 Best Talk Prize, International 2017 *Dictyostelium* Conference, Geneva
- 07/2017 DFG Research Grant STA1431/2-1
- 11/2016 medac Reserach Award
- 12/2015 Funding from the Fonds der Chemischen Industrie
- 12/2015 Funding from the Dr. Illing Foundation
- 02/2014 Fellowship of the Daimler and Benz Foundation
- 06/2012 Feodor Lynen-Postdoc Fellowship (A. v. Humboldt Foundation)
- 02/2011 Swiss National Fund Postdoc Fellowship
- 06/2007 PhD Fellowship, Studienstiftung (German Academic Merit Foundation)
- 06/2005 Gibbs Prize for excellence in the final examination

06/2005 – 07/2006	Fellowship of the Studienstiftung (German Academic Merit Foundation)
2003 and 2004	Turbutt Prize for excellence in practical organic chemistry
06/2003 – 07/2006	University of Oxford, Open Scholarship
06/2002	Prize for the best Abitur at Paul-Klee-Gymnasium, Gersthofen

Organization of Scientific Meetings and Editorial Work

2021	Section Editor at <i>microLife</i> (Oxford University Press)
2021	Chair of the Organizing Committee for the conference <i>Advances in Chemical Biology</i> , online
2019	Guest Editor at <i>ChemBioChem</i> (Special Collection Biosynthesis of Bacterial Natural Products and Small Molecules in Microbial Interactions)
2019	Chair of the Organizing Committee for the conference <i>Advances in Chemical Biology</i> , Frankfurt am Main
2019	Chair of the Session ‘Molecules in Life – Molecules of Life’ Science forum of the German Chemical Society (GDCh), Aachen
2016	Chair of the <i>Young Scientists Symposium Bioorganic Chemistry (Nachwuchswissenschaftler-Symposium Bioorganische Chemie)</i> , Jena

Commissions of Trust

2022 –	Member of the Executive Board of the Excellence Cluster Balance of the Microverse
2021 –	Vice Speaker of the Leibniz Research Alliance Bioactive Compounds and Biotechnology
2018 –	Sub-coordinator of the Research Area A, Excellence Cluster Balance of the Microverse
2018 –	Chair of the Common Division of Chemical Biology (Gemeinsame Fachgruppe Chemische Biologie der DECHEMA, GDCh, DPhG, GBM)
2010 –	Member of the Selection Committee, German Academic Merit Foundation (Studienstiftung des deutschen Volkes)

Teaching Experience

10/2022 –	Seminars (winter semester) Organic Chemistry 4 and OCF
04/2020 – 10/2020	Lectures (summer semester) Natural Products (2SWS), University of Hamburg Lectures (summer semester) General Organic Chemistry (4SWS), Hamburg University of Technology (TUHH) Seminar (summer semester) Organic Chemistry II, (2SWS), University of Hamburg
12/2019 – 04/2020	Lectures (winter semester) Advanced Organic Chemistry (2 SWS), University of Hamburg
04/2018 –	Lectures (summer semester): Synthesis Strategies (for master students in Chemical Biology, 2SWS), University of Jena
11/2016 – 02/2018	Lectures (winter semester): Microbiology (for pharmacists, 2SWS) and Biochemistry (for pharmacists, 2SWS), University of Jena
08/2016	Summer School (2 weeks, Studienstiftung) Antibiotics and Resistance
11/2015 – 12/2015	Lectures (winter semester): Analytical Chemistry (Friedrich-Schiller-University, Jena, Ringvorlesung 4 lectures)
09/2014 – 01/2018	Seminars (winter semester): Bioanalytical Chemistry (Friedrich-Schiller-University, Jena, 2SWS)
07/2013	Biosynthesis (5d summer school Braz. Soc. of Pharamcognosy, Macapá, Brazil)
09/2009 – 12/2009	Practical Organic Chemistry I (ETH Zurich)
02/2008 – 06/2008	Practical Organic Chemistry II (ETH Zurich)
09/2007 – 12/2007	Teaching Assistant: Biological Chemistry I (ETH Zurich)
02/2007 – 07/2007	Teaching Assistant: Organic Chemistry II (ETH Zurich)

Institutional Responsibilities

- 2013 – Faculty member, Leibniz Institute for Natural Product Research and Infection Biology, Hans Knöll Institute – HKI
- 2014 – Associated member of the Faculty of Biological and Pharmaceutical Sciences, Friedrich-Schiller-Universität, Jena
- 2014 – Faculty member, Jena School for Microbial Communication, Jena
- 2014 – Faculty member, International Leibniz Research School, Jena
- 2018 – Excellence Cluster: Balance of the Microverse
Associate Member and Sub-Coordinator of Research Area A

Supervision of Graduate Students and Postdoctoral Fellows

- 2013 – 6 Postdocs, 8 PhD, 7 Master, 3 Bachelor students, *ca.* 30 interns
- 2011 – 2013 2 PhD students (rotation students, Harvard Medical School)
- 2006 – 2011 2 Master, 1 Bachelor students (ETH Zurich)

PhD Commissions

- 2013 – Faculty of Earth Sciences and Chemistry/Faculty of Biological Sciences FSU Jena

Invited Talks and Conference Presentations

- 2012 Hans Knöll Institute, Jena
- 2014 Leibniz Research Alliance, Bioactive Compounds and Biotechnology, Berlin
- 2014 Daimler and Benz Foundation, Ladenburg
- 2015 Harvard Medical School, Boston MA, USA
- 2015 Bioorganic Symposium, Hamburg
15. 01. 2016 University of Mainz
14. 03. 2016 VAAM Conference, Jena
04. 08. 2016 Summer Academy, Studienstiftung, Neubeuern
10. 10. 2016 Small Molecules and Microbes, Konstanz
12. 11. 2016 Peter Seeberger Symposium, Berlin
08. 12. 2016 University of Düsseldorf
02. 03. 2017 University of Geneva, CH
14. 03. 2017 Chemiedozententagung, Marburg
16. 03. 2017 Symposium Biosynthetic Strategies, Jena
22. 03. 2017 MiCom, Jena
10. 04. 2017 Leibniz Research Alliance, Bioactive Compounds and Biotechnology, Freising
04. 05. 2017 New England Biolabs, Ipswich MA, USA
13. 06. 2017 Bioorganic Gordon Research Conference, Andover NH, USA
22. 08. 2017 *Dictyostelium* Conference, Geneva, CH
21. 09. 2017 2017 Bioorganic Symposium, Berlin
11. 01. 2018 MPI for Chemical Ecology, Jena
31. 01. 2018 Advances in Chemical Biology, Frankfurt
05. 03. 2018 Chemiedozententagung, Jena
19. 03. 2018 MiCom, Jena
27. 03. 2018 University of Utrecht, NL
05. 04. 2018 MPI for Chemical Ecology, Jena
24. 04. 2018 Leibniz Research Alliance, Bioactive Compounds and Biotechnology, Halle
28. 05. 2018 Max Planck Institute for Terrestrial Microbiology, Marburg
17. 07. 2018 Freie Universität Berlin
26. 07. 2018 University of Tübingen
14. 08. 2018 *Dictyostelium* Conference, Egmond aan Zee, NL
04. 09. 2018 Harvard Medical School, Boston MA, USA
19. 09. 2018 2018 Bioorganic Symposium, Bochum
06. 11. 2018 Chemistry Colloquium, University of Hamburg
13. 12. 2018 Biomolecular Systems Day, MPI Colloids and Interfaces, Potsdam-Golm
10. 01. 2019 University of Cologne
20. 02. 2019 2019 Naturstoff-Tage Irsee
19. 03. 2019 VAAM Conference, Mainz
19. 03. 2019 Chemiedozententagung, Koblenz

15. 04. 2019 University of Braunschweig
 13. 05. 2019 Karlsruhe Institute of Technology
 14. 06. 2019 University of Konstanz
 29. 07. 2019 University of York (Chemistry Department)
 29. 07. 2019 University of York (Biology Department)
 04. 09. 2019 Swiss Society for Microbiology Meeting, Zurich
 24. 09. 2019 Bioorganic Symposium, Bochum
 14. 10. 2019 Technical University Munich, (Medicinal Microbiology Department)
 17. 10. 2019 Technical University Munich (Chemistry Department)
 07. 11. 2019 Jacobs University, Bremen
 17. 03. 2020 EPFL (Chemistry Department), cancelled due to COVID19
 02. 04. 2020 Japanese-Germany Symposium on Natural Products, Shizuoka, cancelled due to COVID19
 08. 04. 2020 University of Marburg (Chemistry Department), cancelled due to COVID19
 24. 04. 2020 SINOFGOS, Alexander von Humboldt Foundation, Suzhou, China, cancelled due to COVID19
 30. 04. 2020 School of basic Medical Sciences at Hangzhou, China, cancelled due to COVID19
 14. 05. 2020 Heinrich Pette Institute, Hamburg, cancelled due to COVID19
 02. 09. 2020 Microverse Conference, Jena (online)
 30. 09. 2020 Megasyn Conference, Bad Nauheim
 27. 10. 2020 Duke University, USA (online)
 04. 12. 2020 Indiana University–Bloomington, USA (online)
 16. 07. 2021 Academy of Sciences, Göttingen (online)
 17. 09. 2021 Paul-Ehrlich-Ludwig-Darmstaedter Young Investigator Prize Symposium
 27. 09. 2021 Wirkstofftage (online)
 28. 09. 2021 Max-Planck-Institute of Chemical Ecology (hybrid)
 16. 11. 2021 EPFL Lausanne (online)
 14. 01. 2022 Zhejiang University, Hangzhou, China (online)
 20. 05. 2022 FU Berlin, Lise-Meitner-Colloquium
 10. 06. 2022 University of Saskatoon, PFSaM Meeting
 14. 06. 2022 Helsingor, Microbial Secondary Metabolites in Microbiomes 2022
 01. 07. 2022 Münster, GDCh Biochemistry 2022
 08. 08. 2022 International *Dictyostelium* Meeting 2022
 05. 08. 2022 4th Symposium „Chemistry at the Interface of Biology and Medicine“ Patras, Greece
 22. 09. 2022 Bacterial Lipopeptides Workshop, Liège
 05. 10. 2022 Chemistry Seminars, University of Edinburgh
 18. 10. 2022 Chemistry Seminars, University of Hannover
 15. 11. 2022 Young Researchers' Symposium, Friedrich Loeffler Institute Riems

Publications (+equal contributions, *corresponding author)

50. M. Klapper⁺, A. Hübner⁺, A. Ibrahim⁺, I. Wasmuth, Maxime Borry, V. G. Haensch, S. Zhang, W. K. Al-Jammal, H. Suma, J. A. Fellows Yates, J. Frangenberg, I. M. Velsko, S. Chowdhury, R. Herbst, E. V. Bratovanov, H.-M. Dahse, T. Horch, C. Hertweck, M. R. González Morales, L. G. Straus, I. Vilotijevic, C. Warinner*, **P. Stallforth*** *submitted*
49. S. Zhang, K. Schlabach, V. H. Pérez Carrillo, A. Ibrahim, A. Komor, R. Mukherji, S. Chowdhury, L. Reimer, C. Hertweck, U. A. Hellmich, **P. Stallforth*** *submitted*
48. N. Declas, J. R. J. Maynard, L. Menin, N. Gasilovac, S. Götze, J. L. Sprague, **P. Stallforth**, S. Matile, J. Waser* “Tyrosine Bioconjugation with Hypervalent Iodine” *Chem. Sci.* **2022** *advance article* doi: 10.1039/D2SC04558C
47. M. Günther⁺, C. Reimer⁺, R. Herbst⁺, J. E. Kufs, J. Rautschek, N. Ueberschaar, S. Zhang, G. Peschel, L. Reimer, L. Regestein, V. Valiante, F. Hillmann, **P. Stallforth*** “Yellow polyketide pigment suppresses premature hatching in social amoeba” *Proc. Natl. Acad. Sci. U. S. A.* **2022**, 119, e2116122119, doi:10.1073/pnas.2116122119
46. J. E. Kufs, C. Reimer, **P. Stallforth**, F. Hillmann, L. Regestein* “The potential of amoeba-based processes for natural product syntheses” *Curr. Opin. Biotechnol.* **2022**, 77, 102766, doi: 10.1016/j.copbio.2022.102766.
45. **P. Stallforth***, C. Hertweck, M. Mittag, A. A. Brakhage, U. Hellmich* “Functional Modulation of Chemical Mediators in Microbial Communities” *Trends. Biochem. Sci.* **2022** doi: 10.1016/j.tibs.2022.07.006

44. Y. Bando, Y. Hou, L. Seyfarth, J. Probst, S. Götze, M. Bogacz, U. A. Hellmich, P. Stallforth, M. Mittag, H.-D. Arndt* “Total Synthesis and Structure Correction of the Cyclic Lipodepsipeptide Orfamide A” *Chem. Eur. J.* **2022**, *28*, e202104417
43. V. Nasufović, F Küllmer, J. Bößneck, H.-M. Dahse, H. Görls, P. Bellstedt, **P. Stallforth**, H.-D. Arndt* “Total synthesis and bioactivity mapping of geodiamolide H” *Chem. Eur. J.* **2021**, *Epub doi: 10.1002/chem.202100989*
42. M. Baunach*, S. Chowdhury, **P. Stallforth**, E. Dittmann* “The landscape of recombination events that create nonribosomal peptide diversity” *Mol. Biol. Evol.* **2021**, *38*, 2116–2130.
41. S. Zhang[†], R. Mukherji[†], S. Chowdhury, L. Reimer, **P. Stallforth*** “Lipopeptide-mediated Bacterial Interaction Enables Cooperative Predator Defense” *Proc. Natl. Acad. Sci. U. S. A.* **2021**, *118*, e2013759118.
40. M. R. Seyedsayamdost*, **P. Stallforth*** “Special Issue in Honor of Professor Jon Clardy”, *J. Nat. Prod.* **2020**, *83*, 565–568.
39. P. Stallforth* “Cellular microbiology interview-Dr. Pierre Stallforth” *Cell. Microbiol.* **2020**, *22*, e13188.
38. S. Götze, **P. Stallforth*** “Structure Elucidation of Bacterial Nonribosomal Lipopeptides” **2020** *Org. Biomol. Chem.* **2020**, *18*, 1710–1727.
37. S. Götze, **P. Stallforth*** “Structure, Properties, and Biological Functions of Nonribosomal Lipopeptides from Pseudomonads” *Nat. Prod. Rep.* **2020**, *37*, 29–54.
36. R. Mukherji[†], S. Zhang[†], S. Chowdhury, **P. Stallforth*** “Chimeric LuxR Transcription Factors Rewire Natural Product Regulation” *Angew. Chem. Int. Ed.* **2020**, *59*, 6192–6195.
35. M. Klapper, K. Schlabach, A. Paschold, S. Zhang, S. Chowdhury, K.-D. Menzel, M. A. Rosenbaum, **P. Stallforth*** “Biosynthesis of *Pseudomonas*-Derived Butenolides” *Angew. Chem. Int. Ed.* **2020**, *59*, 5607–5610.
34. R. Herbst, M. Günther, **P. Stallforth*** “Chemical Ecology of *Dictyostelium discoideum*” *Comprehensive Natural Products III*, Elsevier, **2020**.
33. S. Götze, J. Arp, G. Lackner, S. Zhang, H. Kries, M. Klapper, M. García-Altres, K. Willing, M. Günther, **P. Stallforth*** “Structure Elucidation of the Syringafactin Lipopeptides Provides Insight in the Evolution of Nonribosomal Peptide Synthetases” *Chem. Sci.* **2019**, *10*, 10979–10990.
32. D. Fischer, G. Gessner, T. Pacheco Fill, R. Barnett, K. Tron, K. Dornblut, F. Kloss, **P. Stallforth**, B. Hube, S. H. Heinemann, C. Hertweck, K. Scherlach,* S. Brunke* “Disruption of membrane integrity by the bacteria-derived antifungal jagaricin” *Antimicrob. Agents Chemother.* **2019**, *63*, e00707.
31. M. Klapper, A. Paschold, S. Zhang, C. Weigel, H.-M. Dahse, S. Götze, S. Pace, S. König, Z. Rao, L. Reimer, O. Werz, **P. Stallforth*** “Bioactivity and Mode of Action of Bacterial Tetramic Acids” *ACS Chem. Biol.* **2019**, *14*, 1693–1697.
30. A. Oberheide, S. Pflanze, **P. Stallforth**, H.-D. Arndt* “Solid Phase-Based Total Synthesis and Stereochemical Assignment of the Cryptic Natural Product Aurantizolicin” *Org. Lett.* **2019**, *21*, 729–732.
29. F. Broecker, S. Götze, J. Hudon, D. C. K. Rathwell, C. L. Pereira, **P. Stallforth**, A. Chakkumkalag, P. H. Seeberger* “Synthesis, Liposomal Formulation, and Immunological Evaluation of a Minimalistic Carbohydrate- α -GalCer Vaccine Candidate” *J. Med. Chem.* **2018**, *61*, 4918–4927.
28. D. Heinrich, R. Barnett, L. Tweedy, R. Insall, **P. Stallforth**, T. Winckler* “The chemoattractant glorin is inactivated by ester cleavage during multicellular development of the social amoeba *Polysphondylium pallidum*” *ACS Chem. Biol.* **2018** *13*, 1506–1513.
27. J. Arp[†], S. Götze[†], R. Mukherji, D. J. Mattern, M. García-Altres, M. Klapper, D. A. Brock, A. A. Brakhage, J. E. Strassmann, D. C. Queller, B. Bardl, K. Willing, G. Peschel, **P. Stallforth***, “Synergistic activity of co-secreted natural products from amoebae-associated bacteria” *Proc. Natl. Acad. Sci. USA.* **2018**, *115*, 3758–3763.
26. M. Klapper, D. Braga, G. Lackner, R. Herbst, **P. Stallforth*** “Bacterial Alkaloid Biosynthesis: Structural Diversity via a Minimalistic Nonribosomal Peptide Synthetase” *Cell Chem. Biol.* **2018**, *25*, 659–665.
25. M. Klapper, J. Arp, M. Günther, **P. Stallforth*** “The Role of Bacterial Natural Products in Predator Defense” *Synlett*, **2018**, *29*, 537–541.
24. R. Barnett, **P. Stallforth***, “Natural Products from Social Amoebae” *Chem. Eur. J.* **2018**, *24*, 4202.

23. S. Götze, R. Herbst-Irmer, M. Klapper, H. Görls, K. R. A. Schneider, R. Barnett, T. Burks, U. Neu, P. Stallforth* “Structure, Biosynthesis, and Biological Activity of the Cyclic Lipopeptide Anikasin” *ACS Chem. Biol.* **2017**, *12*, 2498–2502.
22. R. Gallegos-Monterrosa, S. Kankel, S. Götze, R. Barnett, **P. Stallforth***, A. T. Kovács* “*Lysinibacillus fusiformis* M5 induces increased complexity in *Bacillus subtilis* 168 colony biofilms via hypoxanthine” *J. Bact.* **2017**, *199*:e00204–17.
21. J. Arp, **P. Stallforth*** “Rationalizing the Right Ratios”, *Cell Chem. Biol.* **2017**, *24*, 539.
20. R. Barnett, D. Raszkowski, T. Winckler, **P. Stallforth*** “A Versatile Synthesis of the Signaling Peptide Glorin” *Beilstein J. Org. Chem.* **2017**, *13*, 247–250.
19. M. Klapper, S. Götze, R. Barnett, K. Willing, **P. Stallforth*** “Bacterial Alkaloids Prevent Amoebal Predation” *Angew. Chem. Int. Ed. Engl.* **2016**, *55*, 8944–8947.
18. A. Adibekian*, **P. Stallforth*** “Cutting Edge Chemical Biology: Report from the 2016 International Symposium on Chemical Biology, January 13–15, Geneva, Switzerland” *ACS Chem. Biol.* **2016**, *11*, 816–820.
17. S. Götze, **P. Stallforth***, “Chemical Communication in Microbial Communities” *GIT Lab. J.* **2015**, *11-12*, 16.
16. J. Braesel, S. Götze, F. Shah, D. Heine, J. Tauber, C. Hertweck, A. Tunlid, **P. Stallforth**, D. Hoffmeister* “Three Redundant Synthetases Secure Redox-Active Pigments Production in the Basidiomycete *Paxillus involutus*” *Chem. Biol.* **2015**, *22*, 1325–1334.
15. S. Matthies, **P. Stallforth**, P. H. Seeberger* “Total Synthesis of Legionaminic Acid as Basis for Serological Studies” *J. Am. Chem. Soc.* **2015**, *137*, 2848–2851.
14. M. Cavallari⁺, **P. Stallforth**⁺, A. Kalinichenko⁺, D. Rathwell, T. M. A. Gronewold, A. Adibekian, L. Mori, R. Landmann, P. H. Seeberger*, G. DeLibero* “A semi-synthetic carbohydrate-lipid vaccine that protects against *S. pneumoniae* in mice” *Nat. Chem. Biol.* **2014**, *10*, 950–956.
13. **P. Stallforth**, J. Clardy* “An Atlas for Drug Discovery” *Proc. Natl. Acad. Sci. USA*, **2014**, *111*, 3655–3656.
12. **P. Stallforth**, D. A. Brock, A. M. Cantley, X. Tian, D. C. Queller, J. E. Strassmann, J. Clardy* “A bacterial symbiont is converted from an inedible producer of beneficial molecules into food by a single mutation in the *gacA* gene” *Proc. Natl. Acad. Sci. USA*, **2013**, *110*, 14528–14533. (Highlighted in *PNAS*, *Nat. Rev. Microbiol.*, *BioTechniques*, and other)
11. **P. Stallforth**, J. Clardy* “X-ray crystallography: one size fits most” *Nature*, **2013**, *495*, 456–457.
10. **P. Stallforth**⁺, S. Matthies⁺, A. Adibekian, D. G. Gillingham, D. Hilvert, P. H. Seeberger* “De novo Chemoenzymatic Synthesis of Sialic Acid” *Chem. Commun.* **2012**, *48*, 11987–11989.
9. **P. Stallforth**, J. Clardy* “Protein Evolution: When Two Become Three” *Curr. Biol.*, **2012**, *22*, R685.
8. A. Adibekian, **P. Stallforth**, M.-L. Hecht, D. B. Werz, P. Gagneux, P. H. Seeberger* “Comparative bioinformatics analysis of the mammalian and bacterial glycomes” *Chem. Sci.* **2010**, *2*, 337–344.
7. T. Ohara, A. Adibekian, D. Esposito, **P. Stallforth** and P. H. Seeberger* “Towards the synthesis of a *Yersinia pestis* cell wall polysaccharide: enantioselective synthesis of an L-glycero-D-manno-heptose building blocks” *Chem. Commun.* **2010**, *46*, 4106–4108.
6. R. Pragani, **P. Stallforth**, P. H. Seeberger* “De Novo Synthesis of a 2-Acetamido-4-amino-2,4,6-trideoxy-D-galactose (AAT) Building Block for the Preparation of a *Bacteroides fragilis* A1 Polysaccharide Fragment” *Org. Lett.* **2010**, *12*, 1624–1627.
5. D. G. Gillingham⁺, **P. Stallforth**⁺, A. Adibekian, P. H. Seeberger*, D. Hilvert* “Chemoenzymatic Synthesis of Differentially Protected 3-Deoxysugars” *Nature Chem.* **2010**, *2*, 102–105.
4. **P. Stallforth**, B. Lepenies, A. Adibekian, P. H. Seeberger* “Carbohydrates – A Frontier in Medicinal Chemistry” *J. Med. Chem.* **2009**, *52*, 5561–5577.
3. M.-L. Hecht, **P. Stallforth**, D. Varón-Silva, A. Adibekian, P. H. Seeberger* “Recent Advances in Carbohydrate-based Vaccines” *Curr. Opin. Chem. Biol.* **2009**, *13*, 354–359.
2. A. Adibekian, M. S. M. Timmer, **P. Stallforth**, J. van Rijn, P. H. Seeberger* “Stereocontrolled synthesis of fully functionalized D-glucosamine monosaccharides via a domino nitro Michael/Henry reaction” *Chem. Commun.* **2008**, *30*, 3549–3551.
1. **P. Stallforth**, A. Adibekian, P. H. Seeberger* “De novo Synthesis of a D-Galacturonic Acid Thioglycoside as Key to the Total Synthesis of a Glycosphingolipid from *Sphingomonas yanoikuyae*” *Org. Lett.* **2008**, *10*, 1573–1576.

Patents

1. P. H. Seeberger, **P. Stallforth**, G. DeLibero, M. Cavallari, “Carbohydrate-Glycolipid Conjugate Vaccines” WO 2013/178236 A1