

Personal information

Dr. Philipp Gramlich
Rennbahnstraße 99
D-81929 Munich
Germany
Email: p.gramlich@naturalscience.careers
Tel.: +49 (0) 152 0600 5189

Professional experience

- 12/12-now **NaturalScience.Careers, Munich, Germany**
Co-founder
Company set-up, trainer, author
- 07/11-06/16 **Eurofins Genomics, Ebersberg, Germany**
Team leader R&D, QC and analytics (02/15- 06/16), Team leader R&D (11/12-01/15) and Senior scientist R&D (07/11-10/12)
Leading up to three teams with up to 22 co-workers in R&D and production
- 12/08-11/10 **University of Edinburgh, UK**
Postdoc in the group of Prof. David Leigh
A semi-autonomous molecular machine for peptide synthesis, published in Science
- 05/08-11/08 **baseclick GmbH (BASF Venture Capital), Tutzing, Germany**
Manager research and development
Founding phase of a start-up company

Education

- 03/05-07/08 **LMU Munich, Germany**
PhD thesis with Prof. Thomas Carell
Nucleic acids chemistry, solid-phase synthesis and biochemistry
- 11/98-11/04 **LMU Munich and TU Munich, Germany**
Studies in chemistry
Studies abroad and external project: "Platinum-based anti-cancer drugs" with Prof. Trevor Hambley, University of Sydney, Australia

External project: "Atomic force microscopy" with Prof. Harald Fuchs, WWU Münster, Germany

Languages

German	Mother tongue
English	Fluent
Dutch	Fluent
Spanish	Good command
French	Basic communication skills

Scholarships and prizes

12/08-11/10	DAAD PostDoc scholarship
12/08	Klaus Römer prize for PhD thesis
06/05-05/07	PhD scholarship from Cusanuswerk
11/04	Eli Lilly diploma thesis award
05/00-09/04	Scholarship from Cusanuswerk
06/97	Karl von Frisch prize for biology

Communication skills

Teaching: Trainer for the NaturalScience. *Careers* “Advanced Training Programme” (“Negotiation skills”, “Women and career”, “Leadership skills”). Teaching and research supervision of undergraduate and graduate students at the LMU Munich and at the University of Edinburgh.

Writing: Book co-author, publications, theses and grant applications (English and German), opinion articles (English), PR texts, translations (German ↔ English)

Presentations: Several years of experience in giving presentations in English and German within academic, industrial and non-scientific contexts

Management and business skills

Leadership: Team leader with up to 22 direct reports (technical assistants and two PhD scientists). Project- and cost-management

Company foundation: Contracts, finances, subsidies, networking, market research, press relations

Grants/third-party funds: Project- scholarship- and subsidy proposals: SIGNO project partner of the German Federal Ministry of Economics, 8 years of personal scholarships, Innovation voucher from Bayern Innovativ for the ScienceMums database

Customers: Customer care and acquisition of new customers from industry and academia

Professional training: Interactive training strategies (Thiagi), Arbeits- und Organisationspsychologie (University Hamburg, 4 credit points), Project management course (AKAD academy). European Business Competence License levels A and B (IHK academy)

Supporting information

Publications

- [11] Lewandowski, B., De Bo, G., Ward, J. W., Papmeyer, M., Kuschel, S., Aldegunde, M. J., Gramlich, P. M. E., Heckmann, D., Goldup, S. M., D'Souza, D. M., Fernandes, A. E., Leigh, D. A. Sequence-Specific Peptide Synthesis by an Artificial Small-Molecule Machine. *Science* **2013**, 339 (6116), 189-193.
- [10] Stadler, A. L., Delos Santos, J. O., Stensrud, E. S., Dembska, A., Silva, G. L., Liu, S., Shank, N. I. Kunttas-Tatli, E., Sobers, C. J., Gramlich, P. M. E., Carell, T., Peteanu, L. A., McCartney, B. M., Armitage, B. A. Fluorescent DNA Nanotags Featuring Covalently Attached Intercalating Dyes: Synthesis, Antibody Conjugation, and Intracellular Imaging. *Bioconjugate Chem.* **2011**, 22 (8), 1491-1502.
- [9] Schlossbauer, A., Warncke, S., Gramlich, P. M. E., Manetto, A., Carell, T., Bein, T. Programmable DNA-Based Molecular Valve for Thermoresponsive Release from Core-Shell Colloidal Mesoporous Silica. *Angew. Chem. Int. Ed.* **2010**, 49 (28), 4734-4737.
- [8] Gramlich, P. M. E., Wirges, C. T., Manetto, A., Carell, T. Postsynthetic DNA Modification through the Copper-Catalyzed Azide-Alkyne Cycloaddition Reaction. *Angew. Chem. Int. Ed.* **2008**, 47 (44), 8350-8358.
- [7] Gramlich, P. M. E., Warncke, S., Gierlich, J., Carell, T. Click-Click-Click: Single, Double and Triple Modification of DNA. *Angew. Chem. Int. Ed.* **2008**, 47 (18), 3442-3444.
- [6] Gramlich, P. M. E., Wirges, C. T. M., Gierlich, J., Carell, T. Synthesis of Modified DNA by PCR with Alkyne-Bearing Purines Followed by a Click Reaction. *Org. Lett.* **2008**, 10 (2), 249-251.
- [5] Hammond, D. M., Manetto, A., Gierlich, J., Azov, V. A., Gramlich, P. M. E., Burley, G. A., Maul, M., Carell, T. DNA Photography: An Ultrasensitive DNA-Detection Method Based on Photographic Techniques. *Angew. Chem. Int. Ed.* **2007**, 46 (22), 4184-4187.
- [4] Fischler, M., Simon, U., Nir, H., Eichen, Y., Burley, G. A., Gierlich, J., Gramlich, P. M. E., Carell, T. Formation of Bimetallic Ag-Au Nanowires by Metallization of Artificial DNA Duplexes. *Small* **2007**, 3 (6), 1049-1055.
- [3] Gierlich, J., Gutmiedl, K., Gramlich, P. M. E., Schmidt, A., Burley, G. A., Carell, T. Synthesis of Highly Modified DNA using a Combination of PCR with Alkyne-bearing Triphosphates and Click Chemistry. *Chem. Eur. J.* **2007**, 13 (34), 9486-9494.
- [2] Wirges, C. T. M., Gramlich, P. M. E., Gutmiedl, K., Gierlich, J., Carell, T. Pronounced Effect of DNA Hybridization on Click Reaction Efficiency. *QSAR Comb. Sci.* **2007**, 26 (11-12), 1159-1165.
- [1] Gierlich, J., Burley, G. A., Gramlich, P. M. E., Hammond, D. M., Carell, T. Click Chemistry as a Reliable Method for the High-Density Postsynthetic Functionalization of Alkyne-Modified DNA. *Org. Lett.* **2006**, 8 (17), 3639-3642.

Patent

- [1] Manetto, A., Gramlich, P. M. E., Warncke, S. Click Chemistry on heterogeneous catalysts, WO2010115957 (A1).

Book and book chapter

- [2] Bodewits, K., Hauk, A., Gramlich, P. M. E. **2016**. *Karriereführer für Naturwissenschaftlerinnen*. Weinheim, Germany: Wiley-VCH.
- [1] Bodewits, K., Gramlich, P. M. E. **2014**. Infrastructure, Confidence and Network: Motherhood as a Scientist in Germany. In: Thege, B., Popescu-Wiligmann, S., Pioch, R., Badri-Höher, S. (Eds.) *Paths to Career and Success for Women in Science. Findings from International Research*. pp. 289-313. Wiesbaden, Germany: Springer VS.

Opinion articles

Regular career column in *Nachrichten aus der Chemie* since January 2016.

- [9] Bodewits, K., Gramlich, P. M. E., Giltner, D. The autopilot postdoc. *Naturejobs* **2018**.
- [8] Bodewits, K., Gramlich, P. M. E., How to become a professor. *Chemistry World* **2018**.
- [7] Bodewits, K., Gramlich, P. M. E. A picture is worth a thousand words. *Naturejobs* **2017**.
- [6] Bodewits, K., Gramlich, P. M. E. Kronenberg, P. Countering gender bias at conferences. *Chemistry World* **2017**.
- [5] Kreuz, S., Gramlich, P. M. E. Warum man sich gut überlegen sollte zu promovieren. *Analytik News* **2017**.
- [4] Gramlich, P.M.E., Bodewits, K. Return to academia: The price I'm willing to pay. *Naturejobs* **2016**.
- [3] Bodewits, K., Gramlich, P. M. E. Women in science: clogging the leaky pipeline. *Naturejobs*, 23.06.**2016**.
- [2] Bodewits, K., Gramlich, P. M. E., Wilson, A. **2014**. An Exit Strategy. *Chem. World* **2014**, 11 (10), 40.
- [1] Wilson, A., Gramlich, P. M. E., Bodewits, K. **2014**. From south to north: female scientists in Europe. *Chem. Today* **2014**, 32 (6), 44.