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## 1. Lecturers from Pharmacy Department

<b>Prof. Dr. Jörg Breitzkreutz</b>	
Position	University Professor (W2)
Academic CV	<p>Present position (W2), University of Düsseldorf, since 2016</p> <p>Declined professorship (W3), University of Kiel, 2016</p> <p>Professorship: C3, Institute of Pharmaceutics and Biopharmaceutics, HHU Düsseldorf, 2004</p> <p>Habilitation in Pharmaceutical Technology, University of Münster, 2004</p> <p>Post-doc: University of Florida, USA, 1998</p> <p>Promotion: Dr. rer.nat., Pharmaceutical Technology, University of Münster, 1996</p> <p>Diplompharmazeut, University of Greifswald, 1992</p> <p>Professional Pharmacy License, 1992</p> <p>Study of Pharmacy, University of Münster, 1987-1991</p> <p>Study of Informatics, University of Hagen, 1985-1986</p>
Additional professions	<p>Founder and shareholder of Ethicare GmbH, Haltern am See, Germany, since 2002</p> <p>Founder and shareholder of Sepaserve GmbH, Münster, Germany, 2002-2006 (today: Phenomenex, USA)</p> <p>Head of Product Coordination (Deputy of Head of Production) at Thiemann Arzneimittel GmbH, Waltrop, Germany, 1996-1997</p>
Recent research topics	<p>3D printing of pharmaceuticals (BMBF ProMatLeben, 2018-2023)</p> <p>Paediatric formulations of enalapril maleate (EU FP7 RTN project LENA, 2013-2018)</p> <p>Process analytical technologies for fluid-bed equipment (DBU 30816-31 and 31829-31, 2013-2018)</p> <p>Orodispersible drug formulations and taste assessment by electronic tongues (AiF 17435 N, 2011-2014)</p>
Selected publications	<ol style="list-style-type: none"> <li>Thabet Y, <u>Breitzkreutz J</u> (2018). Orodispersible films: Product transfer from lab-scale to continuous manufacturing. <i>Int. J. Pharm.</i> 535, 285-292.</li> <li>Peters J, Taute W, Bartscher K, Döscher C, Höft M, Knöchel R, <u>Breitzkreutz J</u> (2017). Design, development and method validation of a novel multi-resonance microwave sensor for moisture measurement. <i>Anal. Chim. Acta</i> 961, 119-127.</li> <li>Münster M, Schoch C, Schmidt C, <u>Breitzkreutz J</u> (2017).</li> </ol>

	<p>Multiparticulate system combining taste masking and immediate release properties for the aversive compound praziquantel. Eur. J. Pharm. Sci. 109, 446-454.</p> <p>4. Petrovick G, Pein M, Thommes M, <u>Breitkreutz J</u> (2015). Spheronization of solid small lipid extrudates: an innovative approach in process control. Eur. J. Pharm. Biopharm. 92, 15-21.</p> <p>5. Haupt M, Thommes M, Heidenreich A, <u>Breitkreutz J</u> (2013). Lipid-based intravesical drug delivery systems with controlled release of trospium chloride for the urinary bladder. J. Control. Rel. 170, 161-166.</p>
<p>Volunteer work in scientific organisations and academic self-government (past 5 years)</p>	<p>President of International Association of Pharmaceutical Technology (APV), Mainz, Germany, since 2010</p> <p>Scientific board member of Drug Development and Innovation Center (DDIC), Leverkusen, Germany, since 2017</p> <p>Chair of PaedF group at European Directorate for Quality of Medicines (EDQM), Straßburg, France, since 2014</p> <p>Member of editorial advisory board of European Journal of Pharmaceutics and Biopharmaceutics, Drug Development and Industrial Pharmacy, AAPS PharmSciTech, Journal of Pharmaceutical and Biomedical Analysis</p> <p>Vice-chair of Pharmacy department at HHU, since 2014</p> <p>Capacity commissioner of Pharmacy department at HHU, since 2005</p>

<b>Prof. Dr. Holger Gohlke</b>	
Position	University Professor (W2)
Academic CV	<p>Present position: W2 University of Düsseldorf, since 2009 and Head of NIC Research Group, Forschungszentrum Jülich, since 2017</p> <p>Declined professorship/Chair, University of Southampton, UK, 2012</p> <p>Professorship: W2, University Kiel 2008-2009</p> <p>Declined Senior Lecturer, University College Dublin, Ireland, 2008</p> <p>Professorship: W1, University Frankfurt, 2003-2008</p> <p>Post-doc: The Scripps Research Institute, La Jolla, CA, USA, 2001-2003 and University Marburg, 2000-2001</p> <p>Promotion: Dr. rer.nat., University Marburg, 2000</p> <p>Diplomchemiker (Dipl.-Ing.), Technical University Darmstadt, 1997</p> <p>Approbierter Apotheker (Pharmacy License), University of Münster, 1992</p>
Additional professions	n.a.
Recent research topics	<ol style="list-style-type: none"> <li>1. Structure, dynamics, and energetics: molecular recognition of biomacromolecules as a prerequisite to understand molecular mechanisms (SFB 974, SFB 1208, SPP 1710, FOR 2518)</li> <li>2. Analyzing binding interface regions, “high information-content screening”, and modulating protein-protein interactions as means of target-oriented drug design (GRK 2158)</li> <li>3. Modeling flexibility and plasticity of biomolecules as a basis for rational protein engineering and identification of allosteric mechanisms (CLIB, BioSC, Pfizer)</li> </ol>
Selected publications	<p>Pagani, G., Pereira, J.P.V., Stoldt, V.R., Beck, A., Scharf, R.E., <u>Gohlke, H.</u> (2018) The human platelet antigen-1b variant of <math>\alpha\text{IIb}\beta\text{3}</math> allosterically shifts the dynamic conformational equilibrium of this integrin toward the active state. <i>J. Biol. Chem.</i> DOI: 10.1074/jbc.RA118.002149.</p> <p>Pfleger, C., Minges, A., Boehm, M., McClendon, C.L., Torella, R., <u>Gohlke, H.</u> (2017) Ensemble- and rigidity theory-based perturbation approach to analyze dynamic allostery. <i>J. Chem. Theory Comput.</i> 13, 6343-6357.</p> <p>Frieg, B., Görg, B., Homeyer, N., Keitel, V., Häussinger, D., <u>Gohlke, H.</u> (2016) Molecular mechanisms of glutamine synthetase mutations that lead to clinically relevant</p>

	<p>pathologies. PLOS Comp. Biol. 12, e1004693.</p> <p><u>Gohlke, H.</u>, Schmitz, B., Sommerfeld, A., Reinehr, R., Häussinger, D. (2013) <math>\alpha 5\beta 1</math>-Integrins are sensors for tauroursodeoxycholic acid in hepatocytes. Hepatology 57, 1117–1129.</p> <p>Kalinin, S., Peulen, T., Sindbert, S., Rothwell, P.J., Berger, S., Restle, T., Goody, R.S., <u>Gohlke, H.</u>, Seidel, C.A.M. (2012) A toolkit and benchmark study for FRET-restrained high-precision structural modeling. Nature Methods 9, 1218–1225.</p>
<p>Volunteer work in scientific organisations and academic self-government (past 5 years)</p>	<p>Managing Director, Institute for Pharm. and Med. Chemistry, Heinrich-Heine-Universität, 2015-2017</p> <p>Member of the “Fakultätsrat der Mathematisch-Naturwissenschaftlichen Fakultät der Heinrich-Heine-Universität“, 2015-2017</p> <p>Member of the „Studienbeirat der Mathematisch-Naturwissenschaftlichen Fakultät der Heinrich-Heine-Universität“, as of 2016</p> <p>Leader of project area B, Collaborative research center „Kommunikation und Systemrelevanz bei Leberschädigung und Regeneration“ (SFB 974), as of 2016</p> <p>Co-Speaker “integriertes Graduiertenkolleg” (iGK), Collaborative research center „Kommunikation und Systemrelevanz bei Leberschädigung und Regeneration“ (SFB 974), as of 2016</p> <p>Member of the Steering Committee, Collaborative research center „Identität und Dynamik von Membransystemen – Von Molekülen zu zellulären Funktionen“ (SFB 1208), as of 2016</p> <p>Member of the committee „Jülicher Exzellenzpreis“, as of 2017</p>

<b>Prof. Dr. Rainer Kalscheuer</b>	
Position	University Professor (W2)
Academic CV	<p>Present position (W2), University of Düsseldorf, since 2015</p> <p>Independent junior research group leader, University of Düsseldorf, 2010</p> <p>Post-doc: Howard Hughes Medical Institute at the Albert Einstein College of Medicine, USA, 2005</p> <p>Post-doc: University of Münster, 2003</p> <p>Promotion: Dr. rer.nat., Biology, University of Münster, 2003</p> <p>Diploma in Biology, University of Münster, 1998</p>
Additional professions	n.a.
Recent research topics	<p>Elucidation of the mode-of-action of antimicrobial natural compounds (DFG RTG 2158, 2016 – 2021)</p> <p>Identification of antitubercular natural substances (BMBF 16GW0109, 2015 – 2018)</p> <p>Analysis of novel potential antibiotic targets in <i>Mycobacterium tuberculosis</i> (Jürgen Manchot Foundation, 2013 – 2016)</p> <p>Function of ATP binding cassette (ABC) transporters in <i>Mycobacterium tuberculosis</i> (DFG KA 2259/2-1, 2011 – 2014)</p>
Selected publications	<ol style="list-style-type: none"> <li>1. Rehberg N, Akone HS, Ioerger TR, Erlenkamp G, Daletos G, Gohlke H, Proksch P, <u>Kalscheuer R</u> (2018) Chlorflavonin targets acetohydroxyacid synthase catalytic subunit IlvB1 for synergistic killing of <i>Mycobacterium tuberculosis</i>. ACS Infect Dis. 4:123-134 doi: 10.1021/acsinfecdis.7b00055.</li> <li>2. Korte J, Alber M, Trujillo CM, Syson K, Koliwer-Brandl H, Deenen R, Köhrer K, DeJesus MA, Hartman T, Jacobs WR Jr, Bornemann S, Ioerger TR, Ehrt S, <u>Kalscheuer R</u> (2016) Trehalose-6-phosphate-mediated toxicity determines essentiality of OtsB2 in <i>Mycobacterium tuberculosis</i> in vitro and in mice. PLoS Pathog. 12:e1006043.</li> <li>3. Koliwer-Brandl H, Syson K, van de Weerd R, Chandra G, Appelmelk B, Alber M, Ioerger TR, Jacobs Jr. WR, Geurtsen J, Bornemann S, <u>Kalscheuer R</u> (2016) Metabolic network for the biosynthesis of intra- and extracellular <math>\alpha</math>-glucans required for virulence of <i>Mycobacterium tuberculosis</i>. PLoS Pathog. 12: e1005768.</li> <li>4. <u>Kalscheuer R</u>*, Weinrick B, Veeraraghavan U, Besra GS,</li> </ol>

	<p>Jacobs Jr. WR* (2010) Trehalose-recycling ABC transporter LpqY-SugA-SugB-SugC is essential for virulence of <i>Mycobacterium tuberculosis</i>. Proc. Natl. Acad. Sci. USA 107: 21761–21766. *Co-Corresponding authors</p> <p>5. <u>Kalscheuer R</u>, Syson K, Veeraraghavan U, Weinrick B, Biermann KE, Liu Z, Sacchetti JC, Bornemann S, Jacobs Jr. WR (2010) Self-poisoning of <i>Mycobacterium tuberculosis</i> by targeting GlgE in an alpha-glucan pathway. Nat. Chem. Biol. 6: 376-384.</p>
Volunteer work in scientific organisations and academic self-government (past 5 years)	Stipendiate commissioner of Pharmacy department at HHU, since 2017

<b>Prof. Dr. Matthias Kassack</b>	
Position	University Professor (W2)
Academic CV	<p>Present position (W2), University of Düsseldorf, since 2006</p> <p>Declined professorship (W3), University of Hamburg, 2010</p> <p>Habilitation in Pharmaceutical and Medicinal Chemistry, University of Bonn, 2003</p> <p>Post-doc: University of California San Francisco, USA, 1994-1996</p> <p>Promotion: Dr. rer.nat., Pharmaceutical Chemistry, University of Bonn, 1993</p> <p>Approbiertes Apotheker (Pharmacy License), University of Regensburg, 1989</p>
Additional professions	n.a.
Recent research topics	<p>Development of purinergic receptor ligands.</p> <p>Biological evaluation on anticancer properties of natural products derived from endophytic fungi (BMBF 16GW0108, 2015-2018).</p> <p>Chemoresistance of solid cancers and combinatorial strategies to overcome resistance (associated member of GRK2158, 2016-2020).</p> <p>Development of epigenetic tools for overcoming and prevention of cancer chemoresistance (DFG KA1942)</p>
Selected publications	<ol style="list-style-type: none"> <li>Gohr K, Hamacher A, Engelke LH, <u>Kassack MU</u>. Inhibition of PI3K/Akt/mTOR overcomes cisplatin resistance in the triple negative breast cancer cell line HCC38. BMC Cancer 2017; 17(1): 711.</li> <li>Stenzel K, Hamacher A, Hansen FK, Gertzen CGW, Senger J, Marquardt V, Marek L, Marek M, Romier C, Remke M, Jung M, Gohlke H, <u>Kassack MU*</u>, Kurz T*. Alkoxyurea-Based Histone Deacetylase Inhibitors Increase Cisplatin Potency in Chemoresistant Cancer Cell Lines. J. Med. Chem. 2017; 60(13): 5334-5348. *Shared senior authorship.</li> <li>Engelke LH, Hamacher A, Proksch P, <u>Kassack MU</u>. Ellagic acid and resveratrol prevent the development of cisplatin resistance in the epithelial ovarian cancer cell line A2780. J. Cancer 2016; 7(4): 353-63.</li> <li>Meis S, Hamacher A, Hongwiset D, Marzian C, Wiese M, Eckstein N, Royer HD, Communi D, Boeynaems JM, Hausmann R, Schmalzing G, <u>Kassack MU</u>. NF546 [4,4'-(carbonylbis(imino-3,1-phenylene-carbonylimino-3,1-(4-methyl-phenylene)-carbonyl-imino))-bis(1,3-xylene-<math>\alpha,\alpha'</math>-diphosphonic acid) tetrasodium salt] is the first non-</li> </ol>



	<p>nucleotide P2Y11 agonist and stimulates release of IL-8 from human monocyte-derived dendritic cells. J. Pharmacol. Exp. Ther. 2010; 332(1):238-47.</p> <p>5. Gosepath EM, Eckstein N, Hamacher A, Servan K, von Jonquieres G, Lage H, Györffy B, Royer HD, <u>Kassack MU</u>. Acquired cisplatin resistance in the head-neck cancer cell line Cal27 is associated with decreased DKK1 expression and can partially be reversed by overexpression of DKK1. Int J Cancer. 2008; 123(9): 2013-9.</p>
Volunteer work in scientific organisations and academic self-government (past 5 years)	Advanced training in medicinal chemistry on behalf of the GDCh (since 2006 in Bonn – chaired by Prof. Wiese, since 2018 in Düsseldorf – chaired by Prof. Gohlke and Prof. Kassack).

<b>Prof. Dr. Dr. h.c. Peter Kleinebudde</b>	
Position	University Professor for Pharmaceutical Technology and Biopharmaceutics (C4)
Academic CV	<p>Present position (C4), University of Düsseldorf, since 2003</p> <p>Doctor honoris causa, University of Szeged, Hungary, 2013</p> <p>University Professor (C3), University of Halle-Wittenberg, 1998-2003</p> <p>Guest Lecturer at the Royal Danish School of Pharmacy, Copenhagen, Denmark, 1997-1998</p> <p>Habilitation in Pharmaceutics and Biopharmaceutics, University of Kiel, 1991-1997</p> <p>Promotion: Dr. rer.-nat., Pharmaceutical Technology, University of Kiel, 1984-1987</p> <p>Professional license as Pharmacist, 1983</p> <p>Study of Pharmacy, University of Regensburg and Hamburg, 1978-1982</p>
Additional professions	<p>Pharmaceutical Development and Production at Glaxo GmbH, Bad Oldesloe, finally: head of bulk-production, 1988-1991</p> <p>Pharmacist in the pharmaceutical development at Beiersdorf AG, Hamburg, 1983-1984</p>
Recent research topics	<p>The development of in silico process models for roll compaction (EU FP7 RTN IPROCOP, 2013-2016)</p> <p>Orodispersible drug formulations and taste assessment by electronic tongues (AiF 17435 N, 2011-2014)</p>
Selected publications	<ol style="list-style-type: none"> <li>1. <u>Kleinebudde P</u>, Khinast J, Rantanen J (Eds.) (2017). Continuous manufacturing of pharmaceuticals. Wiley, Hoboken NJ.</li> <li>2. Wiedey R, <u>Kleinebudde P</u> (2017). The density distribution in ribbons from roll compaction. Chem. Ing. Tech. 89, 1017-1024.</li> <li>3. Barimani S, <u>Kleinebudde P</u> (2017). Evaluation of in-line Raman data for end-point determination of a coating process: Comparison of science-based calibration, PLS-regression and univariate data analysis. Eur. J. Pharm. Biopharm. 119, 28-35.</li> <li>4. Meier R, Moll K-P, Krumme M, <u>Kleinebudde P</u> (2017). How deformation behaviour controls product performance after twin-screw granulation. J. Pharm. Sci. 106, 291-301.</li> <li>5. <u>Kleinebudde P</u>. Roll compaction/ dry granulation: Pharmaceutical applications (2004). Eur. J. Pharm. Biopharm. 58, 317-326.</li> </ol>

<p>Volunteer work in scientific organisations and academic self-government (past 5 years)</p>	<p>Member of editorial advisory board of European Journal of Pharmaceutics and Biopharmaceutics since 2001, Pharmaceutical Development and Technology since 2002, AAPS PharmSciTech since 2007, Journal of Pharmaceutical Sciences since 2011, International Journal of Pharmaceutics 2017</p> <p>Guest editor for special issue 'Granulation across the length scales' of European Journal of Pharmaceutics and Biopharmaceutics 2016</p> <p>Scientific board member of Drug Development and Innovation Center (DDIC), Leverkusen, Germany, since 2017</p> <p>Chair of APV Focus Group on Solid Dosage Forms, 2010-2016</p> <p>Director of PSSRC (Pharmaceutical Solid State Research Cluster), 2012-2014</p> <p>Vice-Dean of the Faculty of Mathematics and Natural Sciences since 2015</p> <p>Member of Academic Senate, 2011-2015</p> <p>Head of the Department of Pharmacy, 2011-2015</p> <p>Member of the German Pharmacopoeia Commission (GPC) since 2015</p> <p>Chair of the section Pharmaceutical Technology of GPC since 2015</p>
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<b>Prof. Dr. Thomas Kurz</b>	
Position	University Professor (W2)
Academic CV	<p>Present position (W2, since 2007), University of Düsseldorf</p> <p>Habilitation in Pharmaceutical Chemistry, University of Hamburg, 2007</p> <p>Post-doc: University of Hamburg, 2001-2002</p> <p>Post-doc: University of Florida, USA, 2000-2001</p> <p>Promotion: Dr. rer.nat., Pharmaceutical Chemistry, University of Hamburg, 1999</p> <p>Approbierter Apotheker (Pharmacy License), 1996</p> <p>Pharmacy studies, University of Hamburg, 1990-1995</p>
Additional professions	
Recent research topics	Malaria and epigenetic drug discovery, design and synthesis of metalloenzyme inhibitors and peptidomimetics
Selected publications	<ol style="list-style-type: none"> <li>1. Leven M, Knaab T, Held JK, Duffy S, Meister S, Fischli C, Meitzner D, Lehmann U, Lungerich B, Kuna K, Stahlke P, Delves MJ, Buchholz M, Winzeler EA, Avery VM, Mordmüller B, Wittlin S, <u>Kurz T</u> (2017) 3-Hydroxy-N'-arylidenepropanehydrazonamides with Halo-Substituted Phenanthrene Scaffolds Cure P. berghei Infected Mice When Administered Perorally. <i>J. Med. Chem.</i> 60, 5036-5044.</li> <li>2. Stenzel K, Hamacher A, Hansen FK, Gertzen CGW, Senger J, Marquardt V, Marek L, Marek M, Romier C, Remke M, Jung M, Gohlke H, Kassack MU, <u>Kurz T</u> (2017) Alkoxyurea-based Histone Deacetylase Inhibitors Increase Cisplatin Chemosensitivity. <i>J. Med. Chem.</i> 60, 5334-5348.</li> <li>3. Brücher K, Gräwert T, Konzuch S, Held J, Lienau C, Berendt C, Illarionov B, Maes L, Bacher A, Wittlin S, Mordmüller B, Fischer M, <u>Kurz T</u> (2015) Prodrugs of reverse Fosmidomycin Analogues. <i>J. Med. Chem.</i> 58, 2025-2035.</li> <li>4. Konzuch S, Umeda T, Held J, Hähn S, Brücher K, Lienau C, Behrendt C, Gräwert T, Bacher A, Illarionov B, Fischer M, Mordmüller B, Tanaka N, <u>Kurz T</u> (2014) Binding modes of reverse fosmidomycin analogs towards the antimalarial target IspC. <i>J. Med. Chem.</i> 57, 8827-8838.</li> <li>5. Leven M, Held J, Duffy S, Tschan S, Sax S, Kamber J, Frank W, Kuna K, Geffken D, Siethoff C, Barth S, Avery VM, Wittlin S, Mordmüller B, <u>Kurz T</u> (2014) Blood Schizontocidal and Gametocytocidal Activity of 3-Hydroxy-N'-arylidene-propanehydrazonamides: A New Class of Antiplasmodial Compounds.</li> </ol>

	<i>J. Med. Chem.</i> 57, 7971-7976.
Volunteer work in scientific organisations and academic self-government (past 5 years)	Scientific Editor of "The Archive for Organic Chemistry" (Arkivoc) since 2009 Member of the Arkivoc Control Board since 2009

<b>Prof. Dr. Claus Passreiter</b>	
Position	Associate Professor (A14)
Academic CV	<p>Present Position (University lecturer), Heinrich-Heine-University of Düsseldorf, since 2006</p> <p>Habilitation in Pharmaceutical Biology, Heinrich-Heine-University of Düsseldorf, 2001</p> <p>Specialized pharmacist in Pharmaceutical analytics, 1997</p> <p>Research Associate, University of British Columbia, Vancouver, Canada, 1995</p> <p>Promotion: Dr. rer.nat., Pharmaceutical Biology, Heinrich-Heine-University of Düsseldorf, 1990</p> <p>Approbierter Apotheker (Licensed Pharmacists), University of Düsseldorf, 1985</p>
Additional professions	<p>Vice Editor-in-Chief for Ratgeber aus der Apotheke, since 2017.</p> <p>Scientific Editor of Apotheken Magazin, since 2006</p> <p>PTA Lehranstalt Duisburg (teacher for Botany)</p>
Recent research topics	<p>Phytochemical studies in plants of the Genus Melicope (Rutaceae).</p> <p>Prenylated Flavonoids from the Genus Erythrina (Fabaceae) and their cytotoxic activities.</p> <p>Sesquiterpene Lactones from the genus Neurolaena and their antimalarial and cytotoxic activities</p> <p>Insecticidal activity of Essential oils</p>
Selected publications (max. 5)	<ol style="list-style-type: none"> <li>1. Passreiter CM, Suckow-Schnitker AK, Kulawik A et al. (2015) Prenylated flavanone derivatives isolated from <i>Erythrina addisoniae</i> are potent inducers of apoptotic cell death. <i>Phytochemistry</i> 117, 237-244.</li> <li>2. McKinnon, R, Binder M; Zupko I; Afonyushkin T; Lajter I; Vasas A; de Martin R; Unger C; Dolznig H; Diaz R; Frisch, R; Passreiter, CM; Krupitza G; Hohmann J; Kopp B; Bochkov VN (2014) Pharmacological insight into the anti-inflammatory activity of sesquiterpene lactones from <i>Neurolaena lobata</i> (L.) R.Br. ex Cass. <i>Phytomedicine</i> 21, 1695-1701.</li> <li>3. Hauschild W, Mutiso, PB Chalo, Passreiter CM (2010) Prenylated pterocarpanes from <i>Erythrina melanacantha</i>. <i>Nat. Prod. Commun.</i> 5, 721-724.</li> <li>4. Passreiter CM, Akhtar Y, Isman MB (2005) Insecticidal activity of the essential oil of <i>Ligusticum mutellina</i> roots. <i>Z. Naturforsch</i> 60, 411-414.</li> <li>5. Passreiter CM, Francois G. (2004) Pseudoguaianolide sesquiterpene lactones with high activities against the</li> </ol>

	human malaria parasite Plasmodium falciparum. Phytother. Res. 18, 184-186.
Volunteer work in scientific organisations and academic self-government (past 5 years)	Board Member of the chamber of pharmacists (Apothekerkammer Nordrhein). Vice chairman of the Fortbildungsausschuss der Apothekerkammer Nordrhein. Reviewer of the Bezirksregierung Düsseldorf in the acceptance of foreign pharmaceutical education. Expert adviser for Pharmacy student

<b>Prof. Dr. Dr. mult. h.c. Peter Proksch</b>	
Position	University Professor (C4)
Academic CV	<p>Present position (C4), University of Düsseldorf, since 1999</p> <p>Professorship (C3), University of Würzburg, 1990 – 1999</p> <p>University Assistant (C1), TU Braunschweig, 1986 – 1999</p> <p>Habilitation in Pharmaceutical Biology, TU Braunschweig, 1988</p> <p>Post Doc, University of Köln, 1982 – 1985</p> <p>Post Doc, University of California, Irvine, 1980 – 1982</p> <p>Promotion: Dr. rer. nat., University of Köln, 1980</p>
Additional professions	None.
Recent research topics	<p>BALIPEND Bio-Inspired Anti-Infective Leads from Indonesian Plants and Endophytes (BMBF 16GW0107K, 2015-2018)</p> <p>GRK 2158 Natural products and natural product analogs against therapy-resistant tumors and microorganisms: new lead structures and modes of action (DFG GRK 2158, 2016-2021)</p> <p>Bioinspired Antifouling Constituents for Use in the Marine Environment (BMWf KF2388402AJ3, 2014-2017)</p> <p>Development of a Microtiter Based Natural Product Library for Target Discovery and mode of Action Studies (Manchot-Foundation, 2015-2018)</p>
Selected publications	<p>1) Rehberg N, Akone HS, Ioerger TR, Erlenkamp G, Daletos G, Gohlke H, <u>Proksch P</u>, Kalscheuer R (2017) Chlorflavonin targets acetoxyacid synthase catalytic subunit IlvB1 for synergistic killing of <i>Mycobacterium tuberculosis</i>. ACS Infectious Diseases, ahead of print.</p> <p>2) Küppers L, Ebrahim W, El-Neketi M, Özkaya FC, Mándi A, Kurtán T, Orfali RS, Müller WEG, Hartmann R, Lin WH, Song W, Liu Z, <u>Proksch P</u> (2017) Lactones from the sponge-derived fungus <i>Talaromyces rugulosus</i>. Marine Drugs 15: 1-16.</p> <p>3) Mokhlesi A, Stuhldreier F, Wex KW, Berscheid A, Hartmann R, Rehberg N, Sureechatchaiyan P, Chaidir C, Kassack MU, Kalscheuer R, Broetz-Oesterhelt H, Wesselborg S, Stork B, Daletos G, <u>Proksch P</u> (2017) Cyclic cystine-bridged peptides from the marine sponge <i>Clathria basilana</i> induce apoptosis in tumor cells and depolarize the bacterial cytoplasmic membrane. Journal of Natural Products, 80: 2941-2952.</p> <p>4) Ancheeva E, Kueppers L, Akone SH, Ebrahim W, Liu Z, Mandi A, Kurtan T, Lin WH, Orfali R, Rehberg N, Kalscheuer</p>



	<p>R, Daletos G, <u>Proksch P</u> (2017) Expanding the metabolic profile of the fungus <i>Chaetomium</i> sp. through co-culture with autoclaved <i>Pseudomonas aeruginosa</i>. European Journal of Organic Chemistry 2017: 3256-3264.</p> <p>5) Liu Y, Stuhldreier F, Kurtan T, Mandi A, Arumugam S, Lin WH, Stork B, Wesselborg S, Weber H, Henrich B, Daletos G, <u>Proksch P</u> (2017) Daldinone derivatives from the mangrove-derived endophytic fungus <i>Annulohyphoxylon</i> sp.. Royal Society of Chemistry Advances 7: 5381-5393.</p>
Volunteer work in scientific organisations and academic self-government (past 5 years)	None.

<b>Prof. Dr. Dr. h.c. Holger Stark</b>	
Position	University Professor (W3)
Academic CV	<p>Present position (W3), University of Düsseldorf, since 2013</p> <p>Honorary Doctorate of the University of Nis, Serbia, 2016</p> <p>Visiting Professor, Università di Catania/Sicily, Italy, 2011</p> <p>Rejected Professorship at Leopold Franzens University Innsbruck/Austria, 2008</p> <p>Full Professorship (W3) Goethe University Frankfurt, 2007</p> <p>Rejected Professorship Technical University Carolo Wilhemina zu Braunschweig, 2005</p> <p>Full Professorship (C3) Goethe University, 2000</p> <p>Assistant Professor (C1) Free University Berlin, 1993-1999</p> <p>Post-doc: Free University of Berlin, 1992-1993</p> <p>PhD; Dr. rer nat, Free University of Berlin, 1991</p> <p>Approbierter Apotheker (Pharmacy License), Free University of Berlin, 1987</p>
Additional professions	<p><i>MCULE</i> – Ultimate Database Project, Budapest/Hungary, Advisory Board Member, since 2017</p> <p>PSites Pharma GmbH, 2011- 2015, Co-founder, Chairman scientific advisory board</p> <p>Warburg Glycomed GmbH, 2007 – 2014, Co-founder, Chairman scientific advisory board</p> <p>Archiv der Pharmazie – Chemistry in Life Sciences, Editor-in-Chief, since 2004</p> <p>Pharmakon - Arzneimittel in Wissenschaft und Praxis, Guest Editor 2014, 2018</p>
Recent research topics	<p>Medicinal Chemistry: Drug research for CNS drugs/neurotransmitters, dopamine receptor subtypes, histamine receptor subtypes (having Pitolisant (Wakix<sup>®</sup>) into market (EMA)), NMDA receptors, lipids, sphingolipids, biomarkers (fluorescence ligands), radioligands (PET, SPECT), prodrugs, partial agonists, inverse agonists, allosteric modulators, hybrid compounds, metabolic enzymes, Parkinson's disease, Alzheimer's disease, drug addiction, inflammation, immunology etc</p>
Selected publications	<ol style="list-style-type: none"> <li>1. P. Panula, P. L. Chazot, M. Cowart, R. Gutzmer, R. Leurs, W. L.S. Liu, <u>H. Stark</u>, R. L. Thurmond, H. L. Haas. International Union of Basic and Clinical Pharmacology. XCVIII. Histamine Receptors. <i>Pharmacol. Rev.</i> 2015, 67, 601-655</li> <li>2. S. Hagenow, A. Stasiak, R. R. Ramsay, <u>H. Stark</u>. Ciproxifan, a Histamine H<sub>3</sub> Receptor Antagonist, Reversibly Inhibits Monoamine Oxidase A and B.</li> </ol>

	<p><i>Sci. Rep.</i> 2017, 40541. (open access)</p> <p>3. S. Butini, K. Nikolic, S. Kassel, H. Brückmann, S. Filipic, D. Agbaba, S. Gemma, S. Brogi, M. Brindisi, G. Campiani, <u>H. Stark</u>. Polypharmacology of Dopamine Receptor Ligands. <i>Prog. Neurobiol.</i> 2016, 142, 68-103 (open access)</p> <p>4. Ó. M. Bautista-Aguilera, S. Hagenow, A. Palomino-Antolin, V. Farré-Alins, L. Ismaili, P.-L. Joffrin, M. L. Jimeno, O. Soukup, J. Janockova, L. Kalinowsky, E. Proschak, I. Iriepa, I. Moraleda, J. S. Schwed, A. R. Martinez, F. López-Muñoz, M. Chioua, J. Egea, R. R. Ramsay, J. Marco-Contelles, <u>H. Stark</u>. Multitarget-Directed Ligands Combining Cholinesterase and Monoamine Oxidase Inhibition with Histamine H<sub>3</sub>R Antagonism for Neurodegenerative Diseases. <i>Angew. Chem. Int. Ed.</i> 2017, 56, 12765-12769.</p> <p>5. D. Vogt, <u>H. Stark</u>. Therapeutic Strategies and Pharmacological Tools Influencing S1P Signaling and Metabolism. <i>Med. Res. Rev.</i> 2017, 37, 3-51.</p>
<p>Volunteer work in scientific organisations and academic self-government (past 5 years)</p>	<p>Board Member EU COST Action BM0806 – Recent advances in histamine H<sub>4</sub>R research, work group leader (2009-2013)</p> <p>Board Member EU COST Action CM1103 – Structure based drug design for diagnosis and treatment of neurological diseases (2011-2015)</p> <p>Board Member EU COST Action CM1207 - GLISTEN: GPCR-Ligand interaction, structures and transmembrane signaling (2013-2017)</p> <p>Board Member EU COST Action CA15135 – Multi-target paradigm for innovative ligand identification in the drug discovery process, since 2016</p> <p>Chairman of Pharmacy departments at HHU, since 2015</p> <p>PhD commission of faculty, since 2016</p> <p>Special access to higher education in pharmacy, HHU, since 2014</p> <p>Public affairs in pharmacy, HHU, since 2015</p> <p>German Pharmaceutical Society, Chairman regional group Rheinland, since 2015</p> <p>Organizer of student excursion <i>PharmaNauten</i>, since 2015</p>

## 2. Lecturers from Drug Delivery Innovation Center (DDIC)

<b>Name</b>	<b>Profession</b>	<b>Present Position</b>
Dr. Armin Schweiger	Pharmacist	CEO of Invite GmbH
Dr. Werner Hoheisel	Physist	Scientific Coordinator, Invite GmbH
Martin Müller	Pharmacist	Research Fellow, Invite GmbH
Christoph Nüboldt	Engineer	Research Fellow, Invite GmbH
Sebastian Pohl	Pharmacist	Research Fellow, DDIC
Hanna Ponsar	Pharmacist	Research Fellow, DDIC
Jhinuk Rahman	Pharmacist	Research Fellow, DDIC
Annika Wilms	Pharmacist	Research Fellow, DDIC

### 3. Lecturers from Pharmaceutical Companies

<b>Name</b>	<b>Profession</b>	<b>Present Position</b>
Dr. Kathrin Bartscher	Pharmacist	Chief Scientific Officer, Board Member of NextPharma, Waltrop, Germany
Inna Bonnamour	Pharmacist	Drug Regulatory Affairs, NextPharma, Waltrop, Germany
Dr. Armin Breitenbach	Chemist	Director Pharmaceutical Development, Tesa Labtec, Langenfeld, Germany
Dr. Angela Dischinger	Pharmacist	Formulation, Research and Development. Roche, Basel, Switzerland
Dr. Dejan Djuric	Engineer	Formulation Development, Bayer HealthCare, Wuppertal, Germany
Dr. Carsten Griebel	Chemist	Head Chemical Development, Grünenthal GmbH, Aachen, Germany
Dr. Christian Große	Chemist	Head of Solid State Laboratory, Grünenthal GmbH, Aachen, Germany
Dr. Hans-Jürgen Hamann	Pharmacist	Consultant, formerly Head of Product Development, Bayer Animal Health, Monheim
Dr. Julia Kossner	Pharmacist	Product Supply Pharmaceuticals, Bayer HealthCare, Leverkusen, Germany
Dr. Markus Krumme	Pharmacist	Head of Continuous Manufacturing, Novartis, Basel, Switzerland
Dr. Hans-Georg Lerchen	Chemist	Principal Scientist Medicinal Chemistry, Bayer HealthCare, Wuppertal, Germany
Dr. Sandra Meier	Pharmacist	Head of Product Development, NextPharma, Waltrop, Germany
Dr. Susanne Page	Pharmacist	Head of Formulation, Research and Development. Roche, Basel, Switzerland
Dr. Bernd Riedl	Chemist	Vice President Medicinal Chemistry, Bayer HealthCare, Wuppertal, Germany

Dr. Peter Serno	Pharmacist	Chief Scientific Officer, Bayer HealthCare, Wuppertal, Germany
Dr. Anikó Szepes	Pharmacist	Senior Scientist Formulation, Research and Development. Roche, Basel, Switzerland
Dr. Falk Wehmeier	Chemist	Director Pharmaceutical Development, NextPharma, Bielefeld, Germany
Dr. Klaus Wening	Pharmacist	Innovation Unit Devices & Technologies, Grünenthal, Aachen, Germany
Anika Wischermann	Pharmacist	Drug Regulatory Affairs, NextPharma, Waltrop, Germany
Dr. Matthias Ziehe	Chemist	Head of Analytical Development, NextPharma, Waltrop, Germany

#### 4. Other Lecturers

<b>Name</b>	<b>Profession</b>	<b>Present Position</b>
Dr. Hans-Jürgen Hamann	Pharmacist	Consultant, formerly Head of Product Development, Bayer Animal Health, Monheim, Germany
Dr. Eva-Maria Janssen	Pharmacist	Product developer, DFE Pharma, Goch, Germany
Prof. Dr. Dr. h.c. Oliver Kayser	Pharmacist	Professor for Pharmaceutical Bio-Engineering, Technical University Dortmund, Germany
Dr. Viviane Klingmann	Physician	Paediatrician at University Childrens' Hospital, Duesseldorf, Germany
Dr. Thomas Lauterbach	Chemist and Pharmacist	Former Head of Clinical Operation Europe, UCB Pharma, Monheim, Germany
Dr. Kristina Manhardt	Pharmacist	Evonik Nutrition & Care, Darmstadt, Germany
Dr. Christian Mühlenfeld	Pharmacist	Technical Leader Pharmaceuticals, Ashland Industries Deutschland, Düsseldorf, Germany
Dr. Brigitte Skalsky	Pharmacist	Senior Director Scientific Communication, Evonik Nutrition & Care, Darmstadt, Germany
Dr. Andreas Rummelt	Pharmacist	CEO and company holder InterPharmaLink, formerly board member of Novartis, Basel, Switzerland