1) General information

Name:	**Univ.-Prof. Dr. Dr. Christian Michael Grimm**
Address:	Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine, Ludwig-Maximilians-Universität (LMU) München Nussbaumstr. 26, 80336 München, Germany Phone: +49 (0)89-2180-73811 Email: christian.grimm@med.uni-muenchen.de H-Index: 35 (researchgate.net) Citations: >4670 (>80 publications)
Position:	**Professor of Molecular Pharmacology**

2) Professional experience

2022-	**Affiliated Group Head, Fraunhofer** Institute for Immunology, Infection and Pandemic Research (IIP) and Institute for Translational Medicine and Pharmacology (ITMP)**, München/Penzberg, Germany**
2018-	**Univ. Professor**, Walther Straub Institute of Pharmacology and Toxicology, **Faculty of Medicine, LMU München, Germany**
2015-2018	"Privatdozent" (Assistant Prof. eq.) and Group Leader, Department of Pharmacy/Pharmacology, **Faculty of Chem. & Pharm., LMU München, Germany**
2011-2015	**Lecturer** ("Habilitand") and Group Leader, Department of Pharmacy/ Pharmacology, **Faculty of Chem. & Pharm., LMU München, Germany** (Prof. Dr. Martin Biel)
2009-2011	**Principal Scientist** (Group Leader), Pain Research Unit - Discovery Biology, **Pfizer Ltd. Global R&D**, Sandwich, Kent, **United Kingdom**
2005-2009	**Post-Doc**, Department of Otolaryngology - Head & Neck Surgery and Molecular & Cellular Physiology, Medical School, **Stanford University**, CA, **USA** (Prof. Dr. Stefan Heller)
2004-2005	**Post-Doc**, Department of Otolaryngology and Program in Neuroscience, Massachusetts Eye & Ear Infirmary, Medical School, **Harvard University**, Boston, MA, **USA** (Prof. Dr. Stefan Heller)

3) Academic education

2015	**Habilitation** (Dr. rer. nat. habil.) and Venia legendi in **Pharmacology**, **LMU München**, Germany
2011	**Ph.D.** (Dr. phil. in Philosophy; magna cum laude), Universität Kassel, Germany and Max-Planck-Institute for the History of Science, Berlin (Mentors: Prof. Dr. Dr. Kristian Köchy (Kassel) and Prof. Dr. Dr. Hans-Jörg Rheinberger (MPI))
2004	**Ph.D.** (Dr. rer. nat. in **Pharmacology**; summa cum laude), **Freie Universität (FU) Berlin**, Germany (Mentors: PD Dr. Christian Harteneck and Prof. Dr. Günter Schultz)
2001-2004	Graduate research at the Institute of **Pharmacology**, School of Medicine, **Freie Universität (FU) Berlin**, Germany
1999/2000	State Examinations (**M.Sc.** eq.) in **Pharmacy**, Julius-Maximilians-Universität Würzburg and Universität Regensburg, Germany
1995-2000	Studies of Pharmacy, Julius-Maximilians-Universität Würzburg and 6-month internship at **Bayer AG** Leverkusen (Pharmaceutical R&D), Germany

4) Offered professorships and shortlist positions

2020	**Appointment** as **Full Professor** (W3) for Pathophysiology of Nutritional Diseases, **University of Potsdam**, Germany **(declined)**
2020	**Appointment** as **Full Professor** (W3) and Director of the Department of Physiology II, Faculty of Medicine, **University of Bonn**, Germany **(declined)**
2018	**Appointment** as tenure-track **Professor** (W2-tt) of Molecular Pharmacology, Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine, **LMU München**, Germany **(accepted)**
2018	**Primo loco/rank 1** for an **Associate Professorship** in Physiology, Department of Physiology, Faculty of Medicine, **University of Zürich**, Switzerland
2017	**Appointment** as tenure-track **Professor** (W2-tt) for Experimental Pharmacotherapy, Faculty of Medicine, **University of Jena**, Germany **(declined)**
2016	**Appointment** as tenure-track **Associate Professor** for Clinical and Experimental Medicine, Faculty of Medicine, **University of Linköping**, Sweden **(declined)**
2016-2020	Several secondary and tertiary placements: **Oslo (**Cell Biology, Associate Prof. **2nd,** 2016**)** **Copenhagen (**Cell Biology, Associate Prof. **2nd,** 2017**)** **Greifswald (**Pharmacology, Full Prof. **W3, 3rd,** 2016**)** **Tübingen (**Pharmacogenomics, Full Prof. **W3, 2nd,** 2019**)**

5) Third-party funding, industry funding and awards

2023-2025	**Boehringer-Ingelheim Cooperation (BI-Fraunhofer-LMU)** 480.000 EUR
2022-2027	**Lung Toxicology Research Training Group GRK 2338-2 P08** (Co-PI with Martin Biel) 286.952,50 EUR
2022-2023	**NCL** (Neuronal ceroid lipofuscinosis) **Foundation** grant "Lipidomics analysis of neurodegenerative lysosomal storage disorder iPSC model derived cortical neurons" 20.000 EUR
2022-2026	**SFB1328** (German Research Council) **Grant A21** (Co-PI) 257.400 EUR
2022-2026	**SFB/TRR152** (German Research Council) **Grant TP04** (PI) 433.600 EUR
2021-2024	**DFG** (German Research Council) **Grant GR-4315/2-2** (Co-PI) 237.125 EUR
2021-2022	**NCL** (Neuronal ceroid lipofuscinosis) **Foundation** grant „Investigation of Batten disease phenotypes" 20.000 EUR
2020-2023	**DFG** (German Research Council) **Grant GR-4315/4-1** (PI) 338.700 EUR
2019-2021	**NCL** (Neuronal ceroid lipofuscinosis) **Foundation** and **Werner Reichenberger Foundation Grant** (Co-PI with Dominik Paquet, DZNE) 85.800 EUR
2019-2021	**DAAD** (German Academic Exchange Service) Project 57448707 (Co-PI with Sui-Yuan Chang, NTU Taipei, Taiwan) 11.948 EUR
2019-2021	**DAAD/TRF** (German Academic Exchange Service and Thailand Research Foundation), Project 57453751 (Co-PI with Wanchai De-Eknamkul, Chulalongkorn University Bangkok, Thailand) 7580 EUR
2018-2020	**MLIV** (Mucolipidosis type IV) **Foundation Grant** (Co-PI with Diego Medina, Telethon Institute, Naples, Italy) 81.625,48 EUR

2018-2022	**SFB/TRR152** (German Research Council) **Grant TP04** (PI) 416.300 EUR
2018-2021	**Lung Toxicology Research Training Group GRK 2338-1 P08** (Co-PI with Martin Biel) 219.759,82 EUR
2018-2021	**DFG** (German Research Council) **Grant GR-4315/2-1** (Co-PI with Martin Biel, Angelika Vollmar, and Franz Bracher) 115.270 EUR
2017	**Care-for-Rare Foundation Award**, LMU Munich (PI) 50.000 EUR
2016-2017	**University of Pennsylvania Orphan Disease Center and MLIV** (Mucolipidosis type IV) **Foundation Grant (MDBR-17-120-ML4)** (PI) 36.052 EUR (40.909 USD)
2016	**NCL** (Neuronal ceroid lipofuscinosis) **Foundation Award** (PI) 50.000 EUR
2015	**Fritz-Thyssen Foundation Travel Fellowship** (to Geneva/CH) 836 EUR
2014-2018	**SFB/TRR152** (German Research Council) **Grant TP04** (PI) 315.000 EUR
2013-2016	**Bavarian Research Foundation Grant (DOK-154-13)** (PI) 60.000 EUR
2013-2014	**DFG** (German Research Council) **Grant GR-4315/1-1** (PI); transferred into SFB/TRR152 in 2014 226.550 EUR (transferred into SFB/TRR152 in 2014)
2005	**Ernst-Reuter Award**, FU Berlin (for best doctoral thesis at the Faculty of Biology, Chemistry and Pharmacy in 2004) 5000 EUR
Total	2.178.971 EUR (last 3 years) **3.754.616 EUR (last 10 years)**

6) Key publications

- Martucci LL, Launay JM, Kawakami N, Sicard C, Desvignes N, Dakouane-Giudicelli M, Spix B, Têtu M, Gilmaire F-O, Paulcan S, Callebert J, Vaillend C, Bracher F, **Grimm C**, Fossier P, de la Porte S, Sakamoto S, Morris J, Galione A, Granon S, Cancela J-M: Endo-lysosomal two-pore channels regulate social behaviour by controlling oxytocin and vasopressin secretion. ***PNAS*** accepted, in press

- Laqtom NN, Dong W, Medoh UN, Cangelosi AL, Dharamdasani V, Chan SH, Kunchok T, Lewis CA, Heinze I, Tang R, **Grimm C**, Do AND, Porter FD, Ori A, Sabatini DM, Abu-Remaileh M: CLN3 is required for the efflux of glycerophosphodiesters from lysosomes. ***Nature*** 2022.Sep 21. doi: 10.1038/s41586-022-05221-y.

- Scotto Rosato A*, Krogsaeter E*, Jaślan D, Abrahamian C, Montefusco S, Soldati C, Spix B, Böck J, Pizzo, MT, Grieco, G, Wyatt A, Wünkhaus D, Passon M, Stieglitz M, Keller M, Hermey G, Markmann S, Gruber-Schoffnegger D, Cotman S, Johannes L, Crusius D, Boehm U, Wahl-Schott C, Biel M, Bracher F, De Leonibus, E, Polishchuk E, Medina DL, Paquet D, **Grimm C**[#]: TPC2 rescues lysosomal storage in mucolipidosis type IV, Niemann-Pick type C1 and Batten disease. ***EMBO Mol Med*** 5:e15377, 2022.

- Yuan Y, Jaślan D, Rahman T, Bolsover SR, Arige V, Wagner LE, Abrahamian C, Keller M, Hartmann J, Scotto Rosato A, Weiden E-M, Bracher F, Yule DI, **Grimm C**[#], Patel, S: Segregated cation flux by TPC2 biases Ca^{2+} signaling through lysosomes. ***Nature Commun*** 13(1):4481, 2022.

- Spix B, Butz ES, Chen C-C, Scotto Rosato A, Tang, R, Jeridi A, Kudrina V, Plesch E, Wartenberg P, Arlt E, Briukhovetska D, Ansari M, Günes Günsel G, Conlon TM, Wyatt A, Wetzel S, Teupser D, Holdt LM, Ectors F, Boekhoff I, Boehm U, García Añoveros J, Saftig P, Giera M, Kobold S, Schiller HB, Zierler S, Gudermann T, Wahl-Schott C, Bracher F, Yildirim AÖ, Biel, M, **Grimm C**[#]: Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice. ***Nature Commun*** 13(1):318, 2022.

- Soldati C, Lopez-Fabuel I, Wanderlingh LG, Macia MG, Monfregola J, Esposito A, Napolitano G, Guevara-Ferrer M, Scotto Rosato A, Krogsaeter EK, Paquet D, **Grimm C**, Montefusco S, Braulke T, Storch S, Mole SE, De Matteis

MA, Ballabio A, Lopes Sampaio J, McKay T, Johannes L, Bolanos JP, Medina D: Repurposing of tamoxifen ameliorates CLN3 and CLN7 disease phenotype. ***EMBO Mol Med*** 13(10):e13742, 2021.

- Chen C-C, Krogsaeter E, Butz E, Li Y, Puertollano R, Wahl-Schott C, Biel M, **Grimm C**[#]: TRPML2 is an osmo-/mechano-sensitive cation channel in endolysosomal organelles. ***Science Adv.*** 6(46):eabb5064, 2020.

- Arlt E, Fraticelli M, Tsvilovskyy V, Nadolni W, Breit A, O'Neill TJ, Resenberger S, Wennemuth G, Wahl-Schott C, Biel M, **Grimm C**, Freichel M, Gudermann T, Klugbauer N, Boekhoff I, Zierler S: TPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. ***PNAS*** 13:201920122, 2020.

- Scotto Rosato A, Montefusco S, Soldati C, Di Paola S, Capuozzo A, Monfregola J, Polishchuk E, Amabile A, **Grimm C**, Lombardo A, De Matteis MA, Ballabio A, Medina DL: TRPML1 links lysosomal calcium to autophagosome biogenesis through the activation of the CaMKKβ/VPS34 pathway. ***Nature Commun*** 10:5630, 2019.

- Goodridge J, Jacobs B, Saetersmoen M, Clement D, Clancy T, Skarpen E, Brech A, Landskron J, **Grimm C**, Pfefferle A, Meza-Zepeda L, Lorenz S, Thune Wiiger M, Louch WE, Heggernes Ask F, Liu LL, Yi Sheng Oei V, Kjällquist U, Linnarsson S, Patel S, Taskén K, Stenmark H, Malmberg KJ: TRPML1-mediated modulation of dense-core granules determines functional potential in NK cells. ***Nature Commun*** 10:514, 2019.

- Villella VR, Venerando A, Cozza G, Esposito S, Ferrari E, Monzani R, Spinella MC, Oikonomou V, Renga G, Tosco A, Rossin F, Guido S, Bear CE, Silano M, Garaci E, Chao YK, **Grimm C**, Luciani A, Romani L, Piacentini M, Raia V, Kroemer G & Maiuri L: A pathogenic role for cystic fibrosis transmembrane conductance regulator in celiac disease. ***EMBO J*** 38.pii: e100101, 2019.
See also comment by Shmuel Muallem, NIH: https://www.ncbi.nlm.nih.gov/pubmed/30573671

- Chao Y-K, Schludi V, Chen C-C, Butz E, Nguyen P, Müller M, Krüger J, Kammerbauer C, Vollmar A, Berking C, Biel M, Wahl-Schott C, **Grimm C**[#]: TPC2 polymorphisms associated with a human hair pigmentation phenotype result in gain of channel function by independent mechanisms. ***PNAS*** 114:E8595-E8602, 2017.

- Chen C-C, Chunlei C, Fenske S, Butz E, Chao Y-K, Biel M, Ren D, Wahl-Schott C, **Grimm C**[#]: Patch clamp technique to characterize ion channels in individual intact endolysosomes. ***Nature Protoc*** 12:1639-1658, 2017.

- Ruas M, Davis LC, Chen C-C, Morgan AJ, Chuang K-T, Walseth TF, **Grimm C**, Garnham C, Powell T, Biel M, Wahl-Schott C, Parrington J, Galione A: Expression of Ca^{2+}-permeable two-pore channels rescues NAADP signalling in TPC-deficient cells. ***EMBO J*** 34:1743-1758, 2015.
See also comment by Jentsch et al., MDC, Berlin: https://www.ncbi.nlm.nih.gov/pubmed/26022292

- Sakurai Y, Kolokoltsov AA, Chen C-C, Tidwell MW, Bauta WE, Klugbauer N, **Grimm C**, Wahl-Schott C, Biel M, Davey RA: Two pore channels control Ebolavirus host cell entry and are drug targets for disease treatment, ***Science*** 347:995-998, 2015.
See also comment by Falzarano & Feldmann: https://www.ncbi.nlm.nih.gov/pubmed/25722396

- Chen C-C, Keller M, Hess M, Schiffmann R, Urban N, Wolfgardt A, Schaefer M, Bracher F, Biel M, Wahl-Schott C, **Grimm C**[#]: A small molecule restores function to TRPML1 mutant isoforms responsible for mucolipidosis type IV. ***Nature Commun*** 5:4681, 2014.

- Grimm C, Holdt LM, Chen C-C, Hassan S, Müller C, Jörs S, Cuny H, Kissing S, Schröder B, Butz E, Northoff B, Castonguay J, Luber CA, Moser M, Spahn S, Lüllmann-Rauch R, Fendel C, Klugbauer N, Griesbeck O, Haas A, Mann M, Bracher F, Teupser D, Saftig P, Biel M, Wahl-Schott C: High susceptibility to fatty liver disease in two-pore channel 2-deficient mice. ***Nature Commun*** 5:4699, 2014.

- Aneiros E, Cao L, Papakosta M, Stevens EB, Phillips SC, **Grimm C**[#]: Biophysical and molecular basis of TRPV1 proton gating. ***EMBO J*** 30:994-1002, 2011.

- Grimm C, Cuajungco MP, van Aken AFJ, Schnee M, Jörs S, Kros CJ, Ricci AJ, Heller S: A helix-breaking mutation in TRPML3 leads to constitutive activity underlying deafness in the varitint-waddler mouse. ***PNAS*** 104:19583-19588, 2007.

* authors contributed equally; [#] corresponding or shared corresponding author

Press links:

German:
https://www.lmu.de/de/newsroom/newsuebersicht/news/lysosomale-speicherkrankheiten-ionenkanal-als-moegliche-zielstruktur-fuer-therapien.html
https://www.cup.uni-muenchen.de/de/aktuelles/archiv/2022/copd-ionenkanal-reguliert-krankheitsfoerderndes-molekuel/
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https://www.cup.uni-muenchen.de/de/aktuelles/archiv/2014/defekter-ionenkanal-beguenstigt-fettleber/?lang=de

English:
https://www.lmu.de/en/newsroom/news-overview/news/ion-channel-as-possible-target-structure-for-therapies.html
https://www.lmu.de/en/newsroom/news-overview/news/copd-ion-channel-regulates-molecule-that-contributes-to-disease.html
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https://www.cup.uni-muenchen.de/en/events-and-news/archive/2014/metabolic-disease-unlocking-a-jammed-ion-channel/?lang=default
https://www.cup.uni-muenchen.de/en/events-and-news/archive/2016/childhood-dementia-defining-an-enigmatic-but-vital-function/?lang=default
https://www.lmu.de/en/newsroom/news-overview/news/unconventional-ion-channel-identified.html

7) Full list of publications

Peer-reviewed scientific articles

•58.Fernandez, B., Olmedo, P., Gil, F., Fdez, E., Naaldijk, Y., Rivero-Rios, P., Bracher, F., **Grimm, C.**, Churchill, G.C., Hilfiker, S. (2022) Iron-induced cytotoxicity mediated by endolysosomal TRPML1 channels is reverted by TFEB. *Cell Death & Disease* accepted, in press
•57.Spix, B., Castiglioni, A.J., Remis, N.N., Flores, E.N., Wartenberg, P., Wyatt, A., Boehm, U., Gudermann, T., Biel, M., García-Añoveros, J., **Grimm, C.** # (2022) Whole-body analysis of TRPML3 expression using a GFP-reporter mouse model reveals widespread expression in secretory cells and endocrine glands. *PLoS ONE* accepted, in press
•56.Martucci, L.L., Launay, J.-M., Kawakami, N., Sicard, C., Desvignes, N., Dakouane-Giudicelli, M., Spix, B., Têtu, M., Gilmaire, F.-O., Paulcan, S., Callebert, J., Vaillend, C., Bracher, F., **Grimm, C.**, Fossier, P., de la Porte, S., Sakamoto, S., Morris, J., Galione, A., Granon, S., Cancela, J.-M. (2022) Endo-lysosomal two-pore channels regulate social behaviour by controlling oxytocin and vasopressin secretion. *PNAS* accepted, in press

•55.Laqtom, N.N., Dong, W., Medoh, U.N., Cangelosi, A.L., Dharamdasani, V., Chan, S.H., Kunchok, T., Lewis, C.A., Heinze, I., Tang, R., **Grimm, C.**, Do, A.N.D., Porter, F.D., Ori, A., Sabatini, D.M., Abu-Remaileh, M. (2022) CLN3 is required for the efflux of glycerophosphodiesters from lysosomes. *Nature* 2022 Sep 21. doi: 10.1038/s41586-022-05221-y.
•54.Scotto Rosato, A.*, Krogsaeter, E.*, Montefusco, S., Abrahamian, C., Jaślan, D., Soldati, C., Spix, B., Böck, J., Pizzo, M.T., Grieco, G., Wyatt, A., Wünkhaus, D., Passon, M., Stieglitz, M., Keller, M., Hermey, G., Markmann, S., Gruber-Schoffnegger, D., Cotman, S., Johannes, L., Crusius, D., Boehm, U., Wahl-Schott, C., Biel, M., Bracher, F., De Leonibus, E., Polishchuk, E., Medina, D.L., Paquet, D., **Grimm, C.**# (2022) TPC2 rescues lysosomal storage in mucolipidosis type IV, Niemann-Pick type C1 and Batten disease. *EMBO Mol. Med.* 5:e15377.
•53.Geisslinger, F., Müller, M., Chao, Y-K., **Grimm, C.**, Vollmar, A.M., Bartel, K. (2022) Targeting TPC2 sensitizes acute lymphoblastic leukemia cells to chemotherapeutics by impairing lysosomal function. *Cell Death & Disease* 13(8):668.
•52.Yuan, Y.*, Jaślan, D.*, Rahman, T.*, Bolsover, S.R., Arige, V., Wagner, L.E., Abrahamian, C., Keller, M., Hartmann, J., Scotto Rosato, A., Weiden, E.-M., Bracher, F., Yule, D.I., **Grimm, C.**#, Patel, S. (2022) Segregated cation flux by TPC2 biases Ca^{2+} signaling through lysosomes. *Nature Commun.* 13(1):4481.
•51.Siow, W.X., Kabiri, Y., Tang, R., Chao, Y.-K., Plesch, E., Eberhagen, C., Flenkenthaler, F., Fröhlich, T., Bracher, F., **Grimm, C.**, Biel, M., Zischka, H., Vollmar, A.M., Bartel, K. (2022) Lysosomal TRPML1 regulates mitochondrial function in hepatocellular carcinoma cells. *J. Cell Sci.* 135(6):jcs259455.
•50.Spix, B., Butz, E.S., Chen, C.-C., Scotto Rosato, A., Tang, R., Jeridi, A., Kudrina, V., Plesch, E., Wartenberg, P., Arlt, E., Briukhovetska, D., Ansari, M., Günes Günsel, G., Conlon, T.M., Wyatt, A., Wetzel, S., Teupser, D., Holdt, L.M., Ectors, F., Boekhoff, I., Boehm, U., García Añoveros, J., Saftig, P., Giera, M., Kobold, S., Schiller, H.B.,

Zierler, S., Gudermann, T., Wahl-Schott, C., Bracher, F., Yildirim, A.Ö., Biel., M., **Grimm, C.**[#] (2022) Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice. *Nature Commun.* 13(1):318.

•49.Soldati, C., Lopez-Fabuel, I., Wanderlingh, L.G., Macia, M.G., Monfregola, J., Esposito, A., Napolitano, G., Guevara-Ferrer, M., Scotto Rosato, A., Krogsaeter, E.K., Paquet, D., **Grimm, C.**, Montefusco, S., Braulke, T., Storch, S., Mole, S.E., De Matteis, M.A., Ballabio, A., Lopes Sampaio, J., McKay, T., Johannes, L., Bolanos, J.P., Medina, D. (2021) Repurposing of tamoxifen ameliorates CLN3 and CLN7 disease phenotype. *EMBO Mol. Med.* 13(10):e13742.

•48.Li, Y., Schön, C., Chen, C.-C., Yang, Z., Liegl, R., Murenu, E., Schworm, B., Klugbauer, N., **Grimm, C.**, Wahl-Schott, C., Michalakis, S., Biel, M. (2021) TPC2 promotes choroidal angiogenesis and inflammation in a mouse model of neovascular age-related macular degeneration. *Life Sci. Alliance* 4(8):e202101047.

•47.Netcharoensirisuk, P., Abrahamian, C., Tang, R., Chen, C.-C., Scotto Rosato, A., Beyers, W., Chao, Y.K., Filippini, A., Di Pietro, S., Bracher, F., Bartel, K., Biel, M., Vollmar, A.M., Umehara, K., De-Eknamkul, W., **Grimm, C.**[#] (2021) Flavonoids increase melanin production and reduce proliferation, migration and invasion of melanoma cells by blocking endolysosomal/melanosomal TPC2. *Sci. Rep.* 11(1):8515. doi: 10.1038/s41598-021-88196-6.

•46.Rühl, P., Scotto Rosato, A., Urban, N., Tang, R., Abrahamian, C., Gerndt, S., Sheng, J., Jha, A., Vollmer, G., Schaefer, M., Bracher, F., **Grimm, C.**[#] (2021) Estradiol analogs attenuate autophagy, cell migration and invasion by direct and selective inhibition of TRPML1, independent of estrogen receptors. *Sci. Rep.* 11(1):8313. doi: 10.1038/s41598-021-87817-4.

•45.Müller, M., Gerndt, S., Chao, Y.K., Zisis, T., Nguyen, O.N.P., Müller, C., Gegenfurtner, F.A., Geisslinger, F., Ortler, C., **Grimm, C.**[#], Bracher, F., Vollmar, A.M., Bartel, K. (2021) Gene editing and synthetically accessible inhibitors reveal role for TPC2 in HCC cell proliferation and tumor growth. *Cell Chem. Biol.* 28(8):1119-1131.e27.

•44.Yuan, Y., Kilpatrick, B., Gerndt, S., Bracher, F., **Grimm, C.**, Schapira, A., Patel, S. (2021) The lysosomotrope, GPN, mobilises Ca^{2+} from acidic organelles. *J. Cell Sci.* jcs.256578.

•43.Böck, J., Krogsaeter, E., Passon, M., Chao, Y.K., Sharma, S., Grallert, H., Peters, A., **Grimm, C.**[#] (2021) Human genome diversity data reveal that L564P is the predominant TPC2 isoform and a prerequisite for the blond hair associated M484L gain-of-function effect. *PLoS Genetics* 17(1):e1009236.

•42.Chen, C.-C., Krogsaeter, E., Butz, E., Li, Y., Puertollano, R., Wahl-Schott, C., Biel, M., **Grimm, C.**[#] (2020) TRPML2 is an osmo-/mechano-sensitive cation channel in endolysosomal organelles. *Science Adv.* 6(46):eabb5064.

•41.Leser, C., Urban, N., Keller, M., Gerndt, S., Chen, C.-C., Schaefer, M., **Grimm, C.**, Bracher, F. (2020) Chemical and pharmacological characterization of the TRPML calcium channel blockers ML-SI1 and ML-SI3. *Eur. J. Med. Chem.* 24:112966.

•40.Weber, J., Chao, Y.-K., Kannler, M., Krasteva-Christ, G., Rajan, S., Yildirim, A.Ö., Brosien, M., Schredelseker, J., Weissmann, N., **Grimm, C.**, Gudermann, T., Dietrich, A. (2020) Transient receptor vanilloid 4 (TRPV4) channels are essential for alveolar epithelial cell function. *JCI Insight*, 15:134464.

•39.Arlt, E., Fraticelli, M., Tsvilovskyy, V., Nadolni, W., Breit, A., O'Neill, T.J., Resenberger, S., Wennemuth, G., Wahl-Schott, C., Biel, M., **Grimm, C.**, Freichel, M., Gudermann, T., Klugbauer, N., Boekhoff, I., Zierler, S. (2020) TPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. *PNAS*, 13:201920122.

•38.Gerndt, S., Chen, C.-C., Chao, Y.K., Yuan, Y., Scotto Rosato, A., Krogsaeter, E., Burgstaller, S., Urban, N., Jacob, K., Nguyen, O.N.P., Miller, M.T., Keller, M., Vollmar, A.M., Gudermann, T., Zierler, S., Schredelseker, J., Schaefer, M., Biel, M., Malli, R., Wahl-Schott, C., Bracher, F., Patel, S., **Grimm, C.**[#] (2020) Agonist-mediated switching of ion selectivity in TPC2 differentially promotes lysosomal function. *eLIFE,* 9.pii: e54712.

•37.Scotto Rosato, A., Montefusco, S., Soldati, C., Di Paola, S., Capuozzo, A., Monfregola, J., Polishchuk, E., Amabile, A., **Grimm, C.**, Lombardo, A., De Matteis, M.A., Ballabio, A., Medina, D.L. (2019) TRPML1 links lysosomal calcium to autophagosome biogenesis through the activation of the CaMKKβ/VPS34 pathway. *Nature Commun*., 10:5630

•36.Goodridge, J., Jacobs, B., Saetersmoen, M., Clement, D., Clancy, T., Skarpen, E., Brech, A., Landskron, J., **Grimm, C.**, Pfefferle, A., Meza-Zepeda, L., Lorenz, S., Thune Wiiger, M., Louch, W.E., Heggernes Ask, F., Liu, L.L., Yi Sheng Oei, V., Kjällquist, U., Linnarsson, S., Patel, S., Taskén, K., Stenmark, H., Malmberg, K.-J. (2019) TRPML1-mediated modulation of dense-core granules determines functional potential in NK cells. *Nature Commun*., 10:514

•35.Villella, V.R., Venerando, A., Cozza, G., Esposito, S., Ferrari, E., Monzani, R., Spinella, M.C., Oikonomou, V., Renga, G., Tosco, A., Rossin, F., Guido, S., Bear, C.E., Silano, M., Garaci, E., Chao, Y.-K., **Grimm, C.**, Luciani, A., Romani, L., Piacentini, M., Raia, V., Kroemer, G. & Maiuri, L. (2019) A pathogenic role for cystic fibrosis transmembrane conductance regulator in celiac disease. *EMBO J.*, 38.pii: e100101

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Before 11/2018 (start W2 position):

•33.Chao, Y.-K., Schludi, V., Chen, C.-C., Butz, E., Nguyen, P., Müller, M., Krüger J, Kammerbauer C., Vollmar, A., Berking, C., Biel, M., Wahl-Schott, C., **Grimm, C.**[#] (2017) TPC2 polymorphisms associated with a human hair pigmentation phenotype result in gain of channel function by independent mechanisms. *PNAS* 114:E8595-E8602

•32.Castonguay, J., Orth, J.H.C., Müller, T., Sleman, F., **Grimm, C.**, Wahl-Schott, C., Biel, M., Mallmann, R.T., Bildl, W., Schulte, U., Klugbauer, N. (2017) The two-pore channel 1 is required for efficient protein processing in early and recycling endosomes. *Sci. Rep.* 7:10038

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•29.Bobak, N., Feliciangeli, S., Chen, C.-C., Soussia, I.B., Bittner, S., Biel, M., Wahl-Schott, C., **Grimm, C.**, Meuth, S.G., Lesage, F. (2017) Recombinant tandem of pore-domains in a weakly inward rectifying K^+ channel 2 (TWIK2) forms active lysosomal channels. *Sci. Rep.*, 7:649

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•26.Beck, S., Henß, L., Weidner, T., Herrmann, J., Müller, R., Chao, Y.-K., **Grimm, C.**, Weber, C., Sliva, K., Schnierle, B.S. (2016) Identification of entry inhibitors of Ebola virus pseudotyped vectors from a myxobacterial compound library. *Antiviral Res.* S0166-3542(16)30014-30016

•25.Müller, C., Binder, U., Maurer, E., **Grimm, C.**, Giera, M., Bracher, F. (2015) Fungal sterol C22-desaturase is not an antimycotic target as shown by selective inhibitors and testing on clinical isolates. *Steroids* 101:1-6

•24.Ruas, M., Davis, L.C., Chen, C.-C., Morgan, A.J., Chuang, K.-T., Walseth, T.F., **Grimm, C.**, Garnham, C., Powell, T., Biel, M., Wahl-Schott, C., Parrington, J., Galione, A. (2015) Expression of Ca^{2+}-permeable two-pore channels rescues NAADP signalling in TPC-deficient cells. *EMBO J.*, 34:1743-1758

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•14.Lee, K.P.*, Nair, A.*, **Grimm, C.***, van Zeeland, F., Heller, S., Bindels, R.J.M., Hoenderop, G.J. (2010) A helix-breaking mutation in the epithelial Ca^{2+} channel TRPV5 leads to reduced Ca^{2+} dependent inactivation. *Cell Calcium*, 48:275-287

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•3.Xu, S.Z., Zeng, F., Boulay, G., **Grimm, C.**, Harteneck, C., Beech, D.J. (2005) Block of TRPC5 channels by 2-aminoethoxydiphenyl borate: differential, extracellular and voltage-dependent effect. *Br. J. Pharmacol.*, 145:405-414
•2.Kraft, R., **Grimm, C.**, Grosse, K., Hoffmann, A., Sauerbruch, S., Kettenmann, H., Schultz, G., Harteneck, C. (2004) Hydrogen peroxide and ADP-ribose induce TRPM2-mediated calcium influx and cation currents in microglia. *Am. J. Physiol. Cell Physiol*., 286:C129-137
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* authors contributed equally; # corresponding or shared corresponding author

Reviews (Peer-reviewed)

•21. Jaślan, D., Ferro, I.F., Kudrina, V., Yuan, Y., Patel, S., **Grimm, C.**# (2022) PI(3,5)P_2 and NAADP: team players or lone warriors? – new insights into TPC activation modes. *Cell Calcium,* accepted
•20. Prat Castro, S.*, Kudrina, V.*, Jaślan, D.*, Böck, J., Scotto Rosato, A.#, **Grimm, C.**# (2022) Neurodegenerative lysosomal storage disorders: TPC2 comes to the rescue! *Cells*, 11(18):2807. doi: 10.3390/cells11182807
•19. Krogsaeter, E., Scotto Rosato, A., **Grimm, C.**# (2022) TRPMLs and TPCs: Targets for lysosomal storage and neurodegenerative disease therapy? *Cell Calcium,* 103:102553.
•18. Spix, B., Jeridi, A., Ansari, M., Yildirim, A.Ö.,Schiller, H.B., **Grimm, C.**# (2022) Endolysosomal cation channels and MITF in melanocytes and melanoma. *Cells,* 1(2):304.
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•16. Krogsaeter, E., Tang, R., **Grimm, C.**# (2021) JPT2: the missing link between intracellular Ca^{2+} release channels and NAADP? *Cell Calcium,* 97:102405. doi: 10.1016/j.ceca.2021.102405.
•15. Chen, C.-C., Krogsaeter, E., **Grimm, C.**# (2020) Two-pore and TRP cation channels in endolysosomal osmo-/mechanosensation and volume regulation. *Biochim. Biophys. Acta Mol. Cell Res.* 3:118921.
•14.Scotto Rosato, A., Tang, R., **Grimm, C.**# (2020) Two-pore and TRPML cation channels: Regulators of phagocytosis, autophagy and lysosomal exocytosis. *Pharmacol. Ther.*, 24:107713.
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•12.Gerndt, S., Krogsaeter, E.K., Patel, S., Bracher, F., **Grimm, C.**# (2020) Endolysosomal two-pore channels as drug targets. *FEBS*, 2020 Jun 1. doi: 10.1111/febs.15432. Online ahead of print.
•11.Clement, D., Goodridge, J.P., **Grimm, C**, Patel, S., Malmberg, K.J. (2020) TRP channels as interior designers: Remodeling the endolysosomal compartment in natural killer cells. *Front. Immunol.*, 11:753
•10.**Grimm, C.** #, Tang, R. (2020) Could an endo-lysosomal ion channel be the Achilles heel of SARS-CoV2? *Cell Calcium*, 88:102212.
•9.Spix, B., Chao, Y.-K., Abrahamian, C., **Grimm, C.**# (2020) TRPML cation channels in inflammation and immunity (Research Topic: TRP channels in inflammation and immunity). *Front. Immunol.*, 11:225.
•8.Krogsaeter, E.K., Biel, M., Wahl-Schott, C., **Grimm, C.**# (2018) The protein interaction networks of mucolipins and two-pore channels. *BBA Mol. Cell Res.*, pii: S0167-4889(18)30491-9.

Before 11/2018 (start W2 position):
•7.**Grimm, C.**#, Bartel, K., Vollmar, A.M., Biel, M. (2018) Endolysosomal Cation Channels and Cancer – a Link with Great Potential, *Pharmaceuticals* (Basel), 11(1).pii:E4
•6.**Grimm, C.**, Butz, E., Chen, C.-C., Wahl-Schott, C., Biel, M. (2017) From mucolipidosis type IV to Ebola: TRPML and two-pore channels at the crossroads of endo-lysosomal trafficking and disease. *Cell Calcium*, 67:148-155
•5.**Grimm, C.**#, Chen, C.-C., Wahl-Schott, C., Biel, M. (2017) Two-pore channels: catalyzers of endolysosomal transport and function. *Frontiers in Pharmacology*, 8:45
•4.**Grimm, C.**# (2016) Endolysosomal cation channels as therapeutic targets - Pharmacology of TRPML channels. *Messenger*, 5:30–36
•3.**Grimm, C.**#, Hassan, S., Wahl-Schott, C., Biel, M. (2012) Role of TRPML and two-pore channels in endolysosomal cation homeostasis. *J. Pharmacol. Exp. Ther.* (*Perspectives in Pharmacology)*, 342:236-244

•2.**Grimm, C.**[#], de Groot, M., Aneiros, E. (2011) Dissecting TRPV1: lessons to be learned? *CHANNELS*, 5:201-204
•1.Cuajungco, M.P., **Grimm, C.**, Heller, S. (2007) TRP channels as candidates for hearing and balance abnormalities in vertebrates. *Biochem. Biophys. Acta*, 1772:1022-1027

[#] corresponding or shared corresponding author

Book chapters

•8. Rautenberg, S. Keller, M., Leser, C., Chen, C.-C., Bracher, F., **Grimm, C.**[#] (2022) Expanding the Toolbox: Novel Modulators of Endolysosomal Cation Channels, Handbook of Experimental Pharmacology, Springer Nature, https://doi.org/10.1007/164_2022_605
•7. Jaślan, D., Patel, S., **Grimm, C.**[#] (2021) Plant and animal two-pore channels in Cation Transporters in Plants, Edited by Satosh Kumar Upadhyay, Academic Press Elsevier, https://doi.org/10.1016/B978-0-323-85790-1.00020-8
•6.Chao, Y.-K., Chang, S.-Y., **Grimm, C.**[#] (2020) Endo-lysosomal cation channels and infectious diseases. Reviews of Physiology, Biochemistry, and Pharmacology. Special Vol. *Organelles in Disease*
•5.Chen, C.-C., **Grimm, C.**, Wahl-Schott, C., Biel, M. (2020) Endolysosomal Patch Clamping: Approaches to Measure Vesicular Ion Channel Activities, in *Ion and Molecule Transport in Lysosomes* by Bruno Gasnier and Michael X. Zhu, CRC Press, First Edition.

Before 11/2018 (start W2 position):
•4.**Grimm, C.**[#], Barthmes, M., and Wahl-Schott, C. (2014) *TRPML3*, in: Nilius, B. and Flockerzi, V., *Mammalian Transient Receptor Potential (TRP) cation channels*, *The Handbook of Experimental Pharmacology (HEP)*, Springer Publishing, 222:659-674
•3.**Grimm, C.**[#] and Cuajungco, M.P. (2014) *Mucolipidosis type IV and TRPML channels*, in: Koschak, A. and Weiss, N., *Pathologies of Calcium Channels*, Springer Publishing, pp. 365-379
•2.Saldanha, S.A., **Grimm, C.**, Allais, C., Smith, E., Ouizem, S., Mercer, B.A., Roush, W.R., Heller, S., Hodder, P. (2013) Identification of Selective Agonists of the Transient Receptor Potential Channels 3 (TRPML3). Probe Reports from the NIH Molecular Libraries Program [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2010-2012 Mar 21 [updated 2013 Sep 03]
•1.Saldanha, S.A., **Grimm, C.**, Mercer, B.A., Choi, J.Y., Allais, C., Roush, W.R., Heller, S., and Hodder, P. (2011) *Campaign to Identify Agonists of Transient Receptor Potential Channels 3 and 2 (TRPML3 & TRPML2)*, Probe Reports from the NIH Molecular Libraries Program, Bethesda (MD): National Center for Biotechnology Information

[#] corresponding or shared corresponding author

8) Meetings, invited talks and conferences (oral presentations only, only last ten years)

2013: **1st Conference of the MLIV Foundation, New York** Medical College, NY, USA (**invited speaker)**
2013: LMU Research Conference on Molecular Sciences (URCUP13), Wildbad Kreuth, Germany (invited speaker)
2014: LMU and University of Tübingen Summer School, Frauenchiemsee Monastery, Germany
2014: SFB/TRR 152 Kick-Off Meeting, Mont Sainte Odile, France
2015: Department of Biochemistry, **University of Geneva**, Switzerland (Fritz-Thyssen funded joint research project; host: Prof. Jean Gruenberg)
2015: 81st annual meeting of the DGPT, Kiel, Germany
2015: Symposium, Institute of Biochemistry and Molecular Medicine, **University of Bern**, Switzerland (interview)
2015: LMU and University of Tübingen Summer School, Frauenchiemsee Monastery, Germany
2015: SFB/TRR 152 Symposium, Herrsching a. Ammersee, Germany
2015. **Nanion Technologies**, München, Germany (Webinar)
2015: Annual meeting of the NCL Foundation, Hamburg, Germany (**invited speaker**)
2016: Graduate School Life Sciences Munich (LSM) Lecture Series WS15/16, München, Germany
2016: **3rd Conference of the MLIV Foundation, Atlanta**, GA, USA (**invited speaker**)
2016: **Roche**, Research and Early Development, Basel, Switzerland (invited talk; host: Dr. Roberto Iacone)
2016: Symposium, Department of Pharmacology, University of Jena, Germany (interview)
2016: Symposium, Department of Pharmacology, University of Greifswald, Germany (interview)
2016: **Evotec AG** Neuroscience Section, Hamburg, Germany (invited talk; host: Dr. Rainer Kuhn)
2016: Department of Biosciences, **University of Oslo**, Norway (interview)

2016: Annual meeting of the German Pharmaceutical Society (DPhG), München, Germany
2016: Centre for Molecular Medicine, Nordic EMBL Partnership, Oslo, Norway (interview)
2016: SFB/TRR 152 Meeting, Karlsruhe, Germany
2017: Laboratory of Molecular and Cellular Signaling, Department of Cellular and Molecular Medicine, KU Leuven, Belgium (invited talk; hosts: Prof. Jan Parys and Prof. Geert Bultynck)
2017: Department of Cell Biology & Physiology, **University of Copenhagen**, Denmark (interview)
2017: **3rd JNCL Young Investigator Symposium, Hamburg**, Germany (**invited keynote speaker**; host: NCL Foundation)
2017: Symposium, Department of Pharmacology, Faculty of Medicine, LMU München, Germany (interview)
2017: Symposium, Department of Pharmacology, University of Halle, Germany (interview)
2017: Symposium, Department of Physiology, **University of Zürich**, Switzerland (interview)
2018: XXII International School of Pure and Applied Biophysics, Venice, Italy (**invited speaker**)
2018: **Telethon Institute** of Genetics and Medicine (TIGEM), Naples, Italy (invited talk; host: Dr. Diego Medina)
2018: Symposium, Department of Pharmacology, Faculty of Medicine, Universität Tübingen, Germany (interview)
2018: SFB/TRR 152 Symposium, Homburg/Saarland, Germany
2018: SGC (Structural Genomics Consortium), **Oxford**, UK (invited talk; host: Dr. Katharina Duerr)
2018: **Novartis**, Basel, Switzerland (invited talk; host: Dr. Beat Nyfeler)
2018: Department of Neurology, Faculty of Medicine, Universität Tübingen, Germany (invited talk; host: Dr. med. Alexander Grimm)
2018: **4th Conference of the MLIV Foundation, Atlanta**, GA, USA (**invited speaker**)
2018: **European Calcium Society** Meeting, Hamburg, Germany (**speaker, invited** by Prof. Dr. Geert Bultynck and Prof. Dr. Jan Parys, KU Leuven)
2018: **Europhysiology**, London, UK (**speaker, invited** by Prof. Dr. Sandip Patel, UCL)
2018: Alzheimer's Research UK Oxford Drug Discovery Institute Collaboration Day (**speaker, invited** by Dr. Elena Di Daniel)
2018: SFB/TRR 152 Meeting, Mont Sainte Odile, France
2018: **4th JNCL Young Investigator Symposium, Hamburg**, Germany (**invited speaker**)
2019: Symposium, Department of Pharmacy/Pharmacology, **University of Vienna**, Austria (interview)
2019: **Gordon Research Conference** (GRC) on Lysosomal Diseases, Galveston, TX, USA (**speaker, invited** by Prof. Dr. Beverly L. Davidson)
2019: School of Clinical Laboratory Sciences and Medical Biotechnology, **National Taiwan University** (NTU), Taipei, Taiwan (DAAD funded guest speaker)
2019: **Gordon Research Conference** (GRC) on Organellar Channels and Transporters, West Dover, VT, USA (**speaker, invited** by Prof. Dr. Bruno Gasnier)
2019: **Casma Therapeutics,** Cambridge, MA, USA (invited talk)
2019: FöFoLe Meeting (LMU, Medicine), Herrsching, Ammersee, Germany (invited speaker)
2019: Symposium, **University of Bonn**, Department of Physiology, Faculty of Medicine (interview)
2019: **22nd ESGLD (European Study Group on Lysosomal Diseases) Workshop and Graduate course**, Barcelona, Spain (**invited speaker**)
2019: Symposium, **University of Potsdam**, Institute of Nutritional Science, Faculty of Science (interview)
2019: SFB/TRR 152 Symposium, Herrsching a. Ammersee, Germany
2019: **17th NCL congress of the NCL Foundation**, Hamburg, Germany (invited speaker)
2020: Faculty of Pharmaceutical Sciences, Chulalongkorn University Bangkok, Thailand (DAAD funded guest speaker)
2020: 5th German Pharm-Tox Summit, 86th Annual Meeting of the German Society for Experimental and Clinical, Pharmacology and Toxicology (DGPT), Leipzig, Germany (speaker)
2021: 3rd International **TRP channel conference**, **Leuven, Belgium** (**speaker, invited** by Prof. Dr. Thomas Voets)
2021: 74th Annual Meeting of the Society of General Physiologists, **Marine Biological Laboratory, Woods Hole, MA, USA** (Ion channels and transporters in immunity, inflammation, and antitumor immunity; **speaker, invited** by Prof. Dr. Stefan Feske) **- virtual -**
2021: SFB1328 Meeting, Timmendorfer Strand, Germany
2021: **FASEB conference** on "Calcium and cell function: Mechanisms and diseases" (**speaker, invited** by Prof. Dr. Barbara Niemeyer and Prof. Dr. Nicolas Demaurex) **- virtual -**
2021: Department of Physiology and Biophysics, Faculty of Medicine, Dalhousie University, Halifax, Canada, Dalhousie Seminar Series, **speaker, invited** by Prof. Dr. Xiaoping Dong **- virtual –**
2022: Astex Pharmaceuticals, Cambridge, UK (**speaker, invited** by Dr. Elena Di Daniel) **- virtual –**

2022: Department of Pathology, New York University School of Medicine, NYU Seminar Series, **speaker, invited** by Prof. Dr. Stefan Feske **- virtual -**
2022: 4th European Calcium Channel Conference, Alpbach, Austria, **selected speaker**
2022: **Boehringer-Ingelheim**, Biberach, Germany (speaker, invited by Dr. Paul Nicklin)
2022: DPhG meeting Marburg, Germany (speaker; invited by Prof. Dr. Peter Ruth)
2022: **18th NCL congress of the NCL Foundation**, Hamburg, Germany (invited speaker)
2022: SFB1328 Meeting, Timmendorfer Strand, Germany
2022: SFB/TRR 152 Symposium, Homburg/Saarland, Germany

Upcoming:

2023: UCL workshop, London, UK (**speaker, invited** by Prof. Dr. Sandip Patel)
2023: 8th German Pharm-Tox Summit, Ulm, Germany (invited speaker and organizer of the symposium "PI(3,5)P_2 and NAADP regulated endolysosomal calcium channels in physiology and pathophysiology
2023: **Gordon Research Seminar and Conference** Organellar Channels and Transporters (GRS/GRC), Castelldefels, Spain (invited speaker)
2024: FASEB SRC on Channels and Transporters in Immunity (**speaker, invited** by Prof. Dr. Stefan Feske)
2024: FASEB NAD SRC, Lisbon, Portugal (**speaker, invited** by Prof. Dr. Andreas Guse)

9) Memberships

2022- Member of SFB 1328 "Adenine Nucleotides in Immunity and Inflammation"
2020- Member of the German Society of Pharmacology (DGP)
2019- Member of the European Calcium Society (ECS)
2019 Board member of ACHSE e.V. (Eva-Luise-Köhler Research Award), Berlin, Germany
2019- Board member of the LMU Graduate School Life Science Munich (LSM)
2018- Member of the Research Training Group in Lung Toxicology GRK2338
2014- Member of SFB/TRR 152 "TRiPs to Homeostasis"
2007-2011 Member of the Society for Neuroscience (SfN), USA

10) Reviewer activities for scientific journals and funding agencies

Reviewer, e.g. for Cell Calcium, Nature Commun., Sci. Rep., PLoS Biol., Cancers, Cell Rep. and eLIFE

Reviewer for the Research Council of the KU Leuven, Belgium and the Flemish Research Council (FWO), Belgium
Reviewer for the Czech Science Foundation, Czech Republic
Reviewer for the Agence Nationale de la Recherche (ANR), France
Reviewer for LMU/Bordeaux Research Cooperation Program (2020, 2021)
Reviewer for Le Fonds de la Recherche Scientifique – FNRS, Belgium

11) Teaching (undergraduate students Pharm. Sci., Medicine, and Natural Sci.)

2012-2018: Physiology lecture for Pharmacy and Pharmaceutical Sciences' BA/MA/State Exam. students (Topic: Endocrinology), LMU Munich
2012-2018: Organisation of the clinical pharmacy course and implementation of novel teaching strategies (LMU "Multiplicator" project), LMU Munich
2012-2013: Clinical pharmacy course for Pharmacy and Pharmaceutical Sciences' MA/State Exam. students (Topic: Cardiovascular diseases), LMU Munich
2013-2014: Pharmacology seminar for Pharmacy and Pharmaceutical Sciences' MA/State Exam. students (Topic: Endocrinology), LMU Munich
2014-2015: Pharmacology seminar for Pharmacy and Pharmaceutical Sciences' MA/State Exam. students (Topic: Gastrointestinal diseases), LMU Munich
2015-2018: Pharmacology seminar for Pharmacy and Pharmaceutical Sciences' MA/State Exam. students (Topic: Oncology), LMU Munich

2018- Seminar: Experimental pharmacology and toxicology for natural scientists, LMU Munich
2018- Seminars and lectures for natural scientists, LMU Munich: Seminar on “Ion channels in lysosomal disease”, Seminar on “Endocrine drugs”, Seminar on “Lysosomal storage disorders and metabolic diseases”

Seminars and lectures in pharmacology for Medicine/State Exam. students, LMU Munich:
2018- Module M4 „Rezeptieren & Therapieren“ (Prescribing skills)
Module M5 „Pharmakotherapie in Schwangerschaft und Stillzeit“ (Pharmacotherapy during pregnancy)
Module M23a „Tumorschmerztherapie” (Cancer pain therapy)
Module M23g „DANI Seminar Pharmakokinetik” (Pharmacokinetics)
Module M1 „Parkinson und Parkinson Therapie” (Parkinson and Parkinson therapy)
2020- Module M4, „Antikonvulsiva” (Anticonvulsants/Antiepileptic drugs)
2022- Module 23, „Pharmakotherapie in Gastroentero- und Hepatologie” (Pharmacotherapy in gastroenterology and hepatology)

12) Graduate/Undergraduate student mentoring

Past graduate and undergraduate students:

As main supervisor:
Dr. Yu-Kai Chao (PhD supervisor 2014-2019, year of graduation: 2019)
Topic: Characterization of human TPC2 polymorphisms with endolysosomal patch-clamp
Publications under my supervision: 13, 1 First-author (PNAS, 2017)
Marcel Passon (MA supervisor, year of graduation: 2019)
Topic: Impact of disease-causing missense mutations on subcellular localization and function of the CLN3 protein
Publications under my supervision: 2 Co-author (PLoS Genetics, 2020 and EMBO Mol. Med., 2022)
Dr. Einar Krogsaeter-Kleinhans (PhD supervisor 2017-2022, year of graduation: 2022)
Topic: Known and novel members of the endolysosomal transportome/channelome as candidates to rescue lysosomal storage diseases
Publications under my supervision: 11, 2 Co-first-author (Sci. Adv., 2020 and EMBO Mol. Med., 2022)
Dr. Julia Böck (PhD supervisor 2018-2022, year of graduation: 2022)
Topic: Functional characterization of genetic variations in the endolysosomal cation channels TRPML1 and TPC2
Publications under my supervision: 2, 1 First-author (PLoS Genetics, 2020)
Dr. Barbara Spix (PhD supervisor 2018-2022, year of graduation: 2022)
Topic: Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mic
Publications under my supervision: 3, 1 First-author (Nature Commun., 2022)

As co-supervisor:
Dr. Cheng-Chang Chen (PhD co-supervisor, year of graduation: 2014)
Publications under my supervision incl. Postdoc time: 21
Dr. Verena Schludi (PhD co-supervisor, year of graduation: 2017)
Publications under my supervision: 1 Co-first-author (PNAS, 2017)
Dr. Elisabeth Butz (PhD co-supervisor, year of graduation: 2018)
Publications under my supervision: 8
Dr. Eva Plesch (PhD co-supervisor and co-examiner/reviewer, year of graduation: 2018)
Topic: Development of selective activators of TRPML channels
Publications under my direct supervision: 1 First-author (eLIFE, 2018)
Dr. Susanne Gerndt (PhD co-supervisor and co-examiner/reviewer, year of graduation: 2020)
Topic: Novel chemical tools for the modulation of two-pore channel 2
Publications under my direct supervision: 3, 1 First-author (eLIFE, 2020)

Current graduate and undergraduate students:

Carla Abrahamian (PhD supervisor, 2019-)
Rachel Tang (PhD supervisor, 2019-)
Eva Weiden (PhD supervisor, 2021-)
Irene Ferro (PhD supervisor, 2021-)
Rebecca Deutsch (PhD supervisor, 2022-)
Sandra Prat Castro (PhD supervisor, 2022-)

Alina Nakhabina (MD supervisor, 2019-2021), submission in prep.
Mane Mkhitaryan (MD supervisor, 2022-)
Keyne Talbot (MD supervisor, 2022-)

Prof. Dr. Dr. Christian Grimm, Munich 20.12.22 (last update)