

Guillaume Médard

Guillaume Médard earned his organic chemistry PhD (2004-2007) from University College London. After four years as a medicinal chemist in a drug discovery company, he was appointed as **Chemoproteomics group leader** in the laboratory of Bernhard Küster at the Technical University of Munich. During 12 years at TUM, he notably created and taught a Chemical Biology lecture series (5 ECTS) and secured funding for his team's work. He supervised 4 PhD theses, 18 Master's theses, and 14 internships or bachelor's theses.

In autumn 2022, he was appointed at the National and Kapodistrian University of Athens to establish its proteomics core facility. Médard's independent research focuses on harnessing bottom-up proteomics readout to perform proteome-wide medicinal chemistry and drug discovery.

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Five recent publications:

- 1) Reinecke M, Brear P, Vornholz L, Berger BT, Seefried F, Wilhelm S, Samaras P, Gyenis L, Litchfield DW, **Médard G**, Müller S, Ruland J, Hyvönen M, Wilhelm M, Kuster B. [Chemical proteomics reveals the target landscape of 1,000 kinase inhibitors](#). **Nat Chem Biol**. 2024 May;20(5):577-585. doi: 10.1038/s41589-023-01459-3.
- 2) Zecha J, Bayer FP, Wiechmann S, Woortman J, Berner N, Müller J, Schneider A, Kramer K, Abril-Gil M, Hopf T, Reichart L, Chen L, Hansen FM, Lechner S, Samaras P, Eckert S, Lautenbacher L, Reinecke M, Hamood F, Prokofeva P, Vornholz L, Falcomatà C, Dorsch M, Schröder A, Venhuizen A, Wilhelm S, **Médard G**, Stoehr G, Ruland J, Grüner BM, Saur D, Buchner M, Ruprecht B, Hahne H, The M, Wilhelm M, Kuster B. [Decrypting drug actions and protein modifications by dose- and time-resolved proteomics](#). **Science**. 2023 Apr 7;380(6640):93-101. doi: 10.1126/science.ade3925.
- 3) Lechner S, Steimbach RR, Wang L, Deline ML, Chang YC, Fromme T, Klingenspor M, Matthias P, Miller AK, **Médard G**, Kuster B. [Chemoproteomic target deconvolution reveals Histone Deacetylases as targets of \(R\)-lipoic acid](#). **Nat Commun**. 2023 Jun 15;14(1):3548. doi: 10.1038/s41467-023-39151-8.
- 4) Lechner S, Malgapo MIP, Grätz C, Steimbach RR, Baron A, Rüther P, Nadal S, Stumpf C, Loos C, Ku X, Prokofeva P, Lautenbacher L, Heimbürg T, Würf V, Meng C, Wilhelm M, Sippl W, Kleigrew K, Pauling JK, Kramer K, Miller AK, Pfaffl MW, Linder ME, Kuster B, **Médard G**. [Target deconvolution of HDAC pharmacopoeia reveals MBLAC2 as common off-target](#). **Nat Chem Biol**. 2022 Aug;18(8):812-820. doi: 10.1038/s41589-022-01015-5.
- 5) Prokofeva P, Höfer S, Hornisch M, Abele M, Kuster B, **Médard G**. [Merits of Diazirine Photo-Immobilization for Target Profiling of Natural Products and Cofactors](#). **ACS Chem Biol**. 2022 Nov 18;17(11):3100-3109. doi: 10.1021/acschembio.2c00500.