

## **Prof. Ashraf Brik - Scientific Publications - June 2024**

146. Mahdi Hasan, Deepanjan Panda, Guy Mann, **Ashraf Brik\***, De novo Semi-synthetic Platform for Monitoring Protein degradation in Live Cells, *ChemBioChem*, **2023**, e202300731
145. Yves Haufe, Veeresh Kuruva, Ziyana Samanani, Gonxhe Lokaj, Guy Kamnesky, Pranavkumar Shadarmarshan, Rezvan Shahoei, Dana Katz, Jared Sampson, Michael Pusch, **Ashraf Brik\***, Annette Nicke\* and Abba Leffler\*, Basic residues at position 11 of  $\alpha$ -conotoxin LvIA influence subtype selectivity between  $\alpha 3\beta 2$  and  $\alpha 3\beta 4$  nicotinic receptors via an electrostatic mechanism, *ACS Chemical Neuroscience*, **2023**, Accepted
144. Betsegaw Lemma, Di Zhang, Ganga B. Vamisetti, Bryan G. Wentz, Hiroaki Suga, **Ashraf Brik\***, Jacek Lubkowski\*, David Fushman\*, Mechanism of selective recognition of Lys48-linked polyubiquitin by macrocyclic peptide inhibitors of proteasomal degradation, *Nature Communications*, **2023**, 14, 7217
143. Julia Kriegesmann, **Ashraf Brik**, Synthesis of ubiquitinated proteins for biochemical and functional analysis, *Chemical Science*, **2023**, 14, 10025-10040
142. Nikolaos Parisi, Pablo Dans Puigròs, Muhammad Jbara, Balveer Singh, Diane Schausi-Tiffoche, Diego Molina-Serrano, Isabelle Brun Heath, Denisa Hendrychova, Suman Kumar Maity, Diana Buitrago, Rafael Lema, Thiziri Nait Achour, Simona Giunta, Michael Girardot, Nicolas Talarek, Valérie Rofidal, Katerina Danezi, Damien Coudreuse, Marie-Noëlle Prioleau, Robert Feil, Modesto Orozco, **Ashraf Brik**, Pei-Yun Jenny Wu, Liliana Krasinska, Daniel Fisher\*, Histone H3 serine-57 is a CHK1 substrate whose phosphorylation affects DNA repair, *Nature Communications*, **2023**, 14, 5104
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139. Abhishek Saha, Hiroaki Suga, **Ashraf Brik\***, Combining Chemical Protein Synthesis and Random Non-standard Peptides Integrated Discovery for Modulating Biological Processes, *Accounts of Chemical Research*, **2023**, 56, 14, 1953–1965
138. Ganga B. Vamisetti, Abhishek Saha , Yichao J. Huang , Rajeshwer Vanjari , Guy Mann, Julia Gutbrod , Nabieh Ayoub , Hiroaki Suga\* , **Ashraf Brik\*** , Selective Macrocyclic Peptide Modulators of Lys63-linked Ubiquitin Chains Disrupt DNA Damage Repair , *Nature Communications* , **2022** , 13, 6174
137. Shaswati Mandal, **Ashraf Brik\***, Proteins Through the Eyes of an Organic Chemist, *Tetrahedron*, **2022**, 124, 133022 (*Celebrating the 65th anniversary of the launch of Tetrahedron publications*)

136. Abhishek Saha, Shaswati Mandal, Jan Vincent V. Arafiles, Jacobo Gómez-González, Christian P. R. Hackenberger, **Ashraf Brik\***, Structure-Uptake Relationship Study of DABCYL-Derivatives Linked to Cyclic CPPs for Live-Cell Delivery of Synthetic Proteins, *Angew. Chem.Int. Ed.* 2022, 61, e20220755.
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134. Guy Mann, Pradeep Sadhu, **Ashraf Brik\***, Synthetic Proteins behind the Plasma Barrier: Molecular Spies, *Accounts of Chemical Research*, **2022**, 55, 15, 2055–2067
133. Shaswati Mandal, **Ashraf Brik\***, Probing the Cell Delivery of Synthetic Diubiquitin Chains, *Chemical Communications*, **2022**, 58, 8782 – 8785
132. Rajeshwer Vanjari, Deepanjan Panda, Shaswati Mandal, Ganga B. Vamiseti, **Ashraf Brik\***, Gold(I)-Mediated Rapid Cyclization of Propargylated Peptides via Imine Formation, *Journal of American Chemical Society*, **2022**, 144, 11, 4966–4976
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125. Guy Mann, Gandhesiri Satish, Prasad Sulkshane, Shaswati Mandal, Michael H. Glickman, **Ashraf Brik\***, Synthesis and Delivery of a Stable Phosphorylated Ubiquitin Probe to Study Ubiquitin Conjugation in Mitophagy, *Chemical Communications*, **2021**, 57, 9438 – 9441

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117. Yichao Huang, Mickal Nawatha, Ido Livneh, Joseph M. Rogers, Hao Sun, Sumeet K. Singh, Aaron Ciechanover, **Ashraf Brik\***, Hiroaki Suga\*, Nawatha, Affinity Maturation of Macrocyclic Peptide Modulators of Lys48-linked Diubiquitin by a Twofold Strategy, *Chemistry A European Journal*, **2020**, 26, 8022–8027.
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