Commuting operations and centralizing clones

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The concept of commuting or permuting operations appeared in 1965 and has applications in various domains of universal algebra, e.g. in endomorphisms and algebraic duality, The Galois closed sets or polars of operations induced by this concept are called centralizing clones. We review results on centralizing clones and their lattices and some of more recent results obtined by H. Machida and the author, in particular on endomorphism monoids.