The theory of slice regular functions (originally Cullen-regular functions) was born at George Mason University, in Virginia, where the first and third authors collaborated for a 2-month period in the Fall of 2005. It was originated by the desire to find a new class of quaternionic regular functions that included polynomials and power series. The second author started working on this subject in the Summer of 2006, and her doctoral thesis eventually became the skeleton for this monograph. The theory of slice regular functions has rapidly developed, thanks to a series of visits at Chapman University, in California and to the interest of many mathematicians to whom we are greatly indebted.

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