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**J H Palmieri\*** ([palmieri@math.washington.edu](mailto:palmieri@math.washington.edu)), Box 354350, Department of Mathematics, University of Washington, Seattle, WA 98195-4350, and **J J Zhang**, Box 354350, Department of Mathematics, University of Washington, Seattle, WA 98195-4350. *Artin-Schelter regular algebras and the Steenrod algebra.*

Artin-Schelter regular algebras may be viewed as generalizations, to the non-commutative setting, of polynomial algebras. For any finite-dimensional Hopf algebra  $H$  over a field of positive characteristic, we construct a reasonably small Artin-Schelter regular algebra mapping onto  $H$ . We apply this to the sub-Hopf algebras of the mod  $p$  Steenrod algebra. (Received August 15, 2010)