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His research focuses on: **a)** the interface between inflammation, lipid metabolism, and cellular signaling, aiming to elucidate the molecular mechanisms of action of both synthetic and natural products. Using preclinical *in vitro* and *in vivo* models of inflammation, he identifies innovative drug targets and develops novel lead structures. **b)** gender-specific medicine and pharmacology, with a particular focus on respiratory diseases.

He is a member of the Italian Society of Pharmacology (SIF) and the Italian Society of Pharmacognosy (SIPHAR). Dr. D'Avino has published 15 peer-reviewed articles and received 4 awards for his research at national and international conferences.