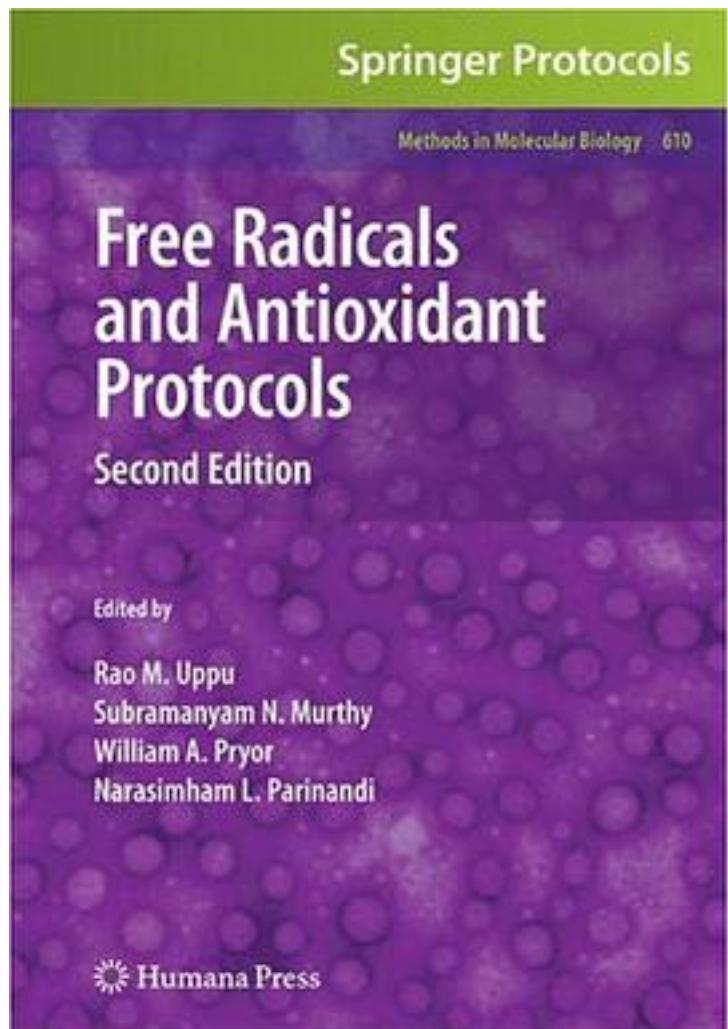


Free Radicals and Antioxidant Protocols



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In recent years there has been a growing demand to achieve more rapid and accurate

detection of RONs (reactive oxygen and nitrogen species), which affect normal physiological processes and pathological conditions, and also of redox stress. In Free Radicals and Antioxidant Protocols, Second Edition, world-renowned researchers respond to this need, considering the most recent analytical and technological aspects of the detection and determination of RONs, and of oxidative, nitrative, nitrosative, and redox stress in biological systems *in vivo* and *in vitro*. Chapters include protocols to establish biomarkers for the oxidative stress-induced genetic damage in cellular and animal models, provide novel methods and technologies for analyzing peroxidized lipids, describe techniques for gene therapy, and present methods of EPR imaging of free radicals and oxygen *in vivo*. Composed in the highly successful Methods in Molecular Biology(t) series format, each chapter contains a brief introduction, step-by-step methods, a list of necessary materials, and a Notes section which shares tips on troubleshooting and avoiding known pitfalls. Comprehensive and user-friendly, Free Radicals and Antioxidant Protocols, Second Edition, is an essential guide for the novice and expert researcher alike.

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