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André Nel is a Professor of Medicine and Chief/founder of the Division of NanoMedicine at UCLA. He is the Director of the UC Center for the Environmental Implications of Nanotechnology (UC CEIN), a major NSF and EPA-funded center for nanosafety implementation in the US. He also directs the NIH-funded UCLA Center for Nano Biology. UC CEIN is housed in the California NanoSystems Institute (CNSI) at UCLA, with affiliated faculty at several UC campuses. Dr. Nel obtained his medical (MD) and Doctorate of Medicine (PhD equivalent) degrees Stellenbosch in Cape Town, South Africa, and subsequently did Clinical Immunology training with board certification by the American Board of Internal Medicine as well as American Board of Allergy and Immunology. He directed the UCLA Asthma and Immunology Disease Center, with a major research focus on the study of air pollution and ambient ultrafine particles on asthma. Dr. Nel has been a member of the peer-selected Best Doctors of America since 1998, and has been the recipient of the John Salvaggio Memorial Award recognizing his outstanding service to the specialty and science of Allergy and Immunology, American Academy of Asthma Allergy and Immunology (AAAAI). He received the Harry Truman Lectureship award from Sandia National laboratories in 2012, while UC CEIN received the Governor's Economic and Environmental Leadership Award (GEELA) in California in 2013. He has represented the NIH and the National Nanotechnology Initiative in cooperative research agreements with Japan, the Chinese Academy of Sciences and Russia. He is an Honorary Foreign Professor in the Chinese Academy of Sciences, and has served as a member of a distinguished NSF panel that produced a comprehensive US Government Science Report and vision for US nanotechnology research 2011-2020. He is Associate Editor of ACS Nano and has delivered several plenary and keynote lectures on asthma, nanotherapeutics and nanotoxicology at national and international conventions. Dr. Nel's chief research interests are: (i) Nanomedicine and nanotherapeutics with particular emphasis on the development of nanoparticle treatment platforms that can be used for drug delivery, siRNA delivery and imaging (Dr. Nel co-directs the UCLA Nanomachine Center, housed in the CNSI); (ii) Nanobiology with particular emphasis on nanomaterial interfacial properties and quantitative structure-activity relationships to improve bio-processing, biosafety, and multifunctional nanocarrier design; (iii) Nanotechnology environmental health and safety, with particular emphasis on predictive toxicological modeling, high throughput safety screening, and safe implementation of nanotechnology in humans and the environment; (iv) The role of air pollutants in asthma, with particular emphasis on the role of oxidative stress in the generation of airway inflammation, allergic sensitization and asthma. His research is funded by personal (RO1) and center grants from the National Institute of Environmental Health Sciences, National Cancer Institutes, the EPA and the NSF. Dr. Nel and his collaborators have developed several pending or issued nanomaterial patents and he is an advisor to industry and several federal agencies.