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Dr. Gregory A. Lodygensky is a clinician-researcher and neonatologist based in Montréal, Canada. He leads an innovative research program on precision brain imaging in neonatal medicine, supported by substantial provincial and national funding. His work encompasses multicenter projects across Canada, investigating the impact of brain disruptors on development, including inflammation, hypoglycemia in premature infants and fetal cannabis exposure. Dr. Lodygensky has also developed open-source tools leveraging artificial intelligence for imaging analysis. Additionally, he co-leads the IMAGINE Pediatric Research Platform, a cutting-edge $13M initiative featuring the new Siemens Cima-X MRI technology, advancing pediatric neuroimaging research in the CHU Sainte-Justine.