



The poster features a blue and white color scheme. On the left, three hexagonal images show a cow, a sheep, and a pig. To the right is a large, glowing blue DNA double helix. The title 'Gene editing farm animals: the facts' is in bold black text. Below it is a dotted line. The event details 'Mercure Manchester Piccadilly' and '7th November 2024 | 10:00 - 15:30' are in bold black text. The BSAS logo is in the bottom right corner.

Gene editing farm animals: the facts

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Mercure Manchester Piccadilly
7th November 2024 | 10:00 - 15:30

bsas
british society of animal science

Session 5: Panel Discussion on Precision Breeding

Panellist: Alan Mileham | Genetic Visions



Bio

Alan is from the UK and has a BSc in Genetics (Leeds, 1977) and a PhD in Molecular Biology (Edinburgh, 1980). He joined Dalgety, the parent company of PIC, the world's largest pig breeding company, in 1987. Alan worked on numerous PIC projects, including semen sexing, developing DNA markers in pigs and a rapid test for the presence of the PRRS virus in semen, before joining PIC 1996. In 2000, Alan relocated to Berkeley California where he established a new PIC laboratory carrying out research in molecular biology (pioneering genomic selection in pigs) and embryo technology. After PIC was acquired by Genus plc (a UK cattle breeding company) in 2005, Alan relocated the molecular biology laboratory to the Genus/ABS Headquarters in DeForest, Wisconsin. During his time with Genus, he formed and managed collaborative projects with leading Universities in the UK and US, mainly involving genome editing and DNA sequenced-based genomic selection. Alan left Genus in 2017, but continued working with them as a consultant, managing the UK-based collaborative projects that he has set up. Alan joined Wisconsin-based Genetic Visions in 2019 as Senior Lead Scientist where he has led the adoption of Illumina DNA sequencing technology to bovine semen QC. Alan has chaired the Animal Sector Advisory Board for the Knowledge Transfer Network in the UK since 2012 and has served on various advisory boards over the last 15 years. Alan has over 50 scientific publications and has seen genomics technologies transform the livestock breeding industry during his career.