



# 实验动物科技资讯

2024 年第 01 期 总 368 期

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每期刊载: <https://nrla.nifdc.org.cn/nrla/>

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2024 年 1 月 15 日 星期一

## 历经 20 年开创更好的科学

2024 年 1 月 05 日

今年是 nc3Rs (英国国家 3Rs 中心) 成立 20 周年。我们将在 2024 年期间开展一系列的庆祝活动, 所有活动都将采用新的 Logo。

自成立以来, nc3Rs 一直致力让 3Rs 原则成为科学研究过程中的核心部分, 而不是附加内容。在研究过程的各个阶段, 我们与利益相关者共同参与实践 3Rs 原则, 确保我们朝着构建可重复的、更准确模型的方向发展, 进而在推动科学理解方面社会带来更大的价值。

在如何提升 3Rs 影响力方面, 我们在过去二十年里学到很多。仅仅发展新方法和途径是不够的; 还必须投入时间、新想法和资金, 在相关领域、团体内进行宣传, 他们说“如果你构建好了(新的方法), 他们就会来(关注)”。实际上, 展示新方法和途径需要大量的资源, 直到其势头达到临界点, 它们才会被采纳并实践用于实践中。20 周年纪念提供了一个绝佳的机会, 不仅可以回顾所取得的成就, 感谢帮助我们实现目标的人们, 还可以展望未来的目标和任务。

### 20 周年纪念活动

20 周年纪念活动会展示 nc3Rs 重点领域的工作, 包括替代技术、毒理学、监管科学和动物福利等方面。各类网络研讨会和活动将把科学带入生活, 为人们提供机会, 聆听我们研究人员讲述他们的工作及 nc3Rs 资助对他们的影响。

我们将使用一系列工具和媒体来反思我们不仅资助的各种工作组合, 而且是由我们内部的科学工作人员团队承担的。从我们的创新和“破解 IT”项目, 到我们通过实验设计项目改进动物研究的设计和严谨性, 我们将关注这些工作领域的长期影响和成就。

### 建立合作网络

从与关键参与者建立战略伙伴关系到培育和鼓励合作, 建立团队 (Community) 是 nc3Rs 工作的核心。2024 年, 我们将在这方面走得更远。通过建立网络, 支持和鼓励不同团队在具有战略意义的领域内开展合作。

最先建立的两个网络将重点关注心血管研究和 NAMs ( New approach methodologies,新方法方法学,此处专指用于评估化学或药物毒性的替代技术的方法) 领域, 启动活动将在今年上半年举行。更多信息将在 1 月的通讯中发布, 请确定您已订阅。

### 公众参与

我们鼓励在 3Rs 方面做出贡献的研究人员走出去, 通过多种方式的活动, 让公众了解这些研究。我们的公众参与奖已扩大了范围(也包括所有资助者支持的研究)和金额(高达 2000 英镑), 以配合和提升 20 周的纪念活动。除了奖励计划, 还会在曼彻斯特、伦敦和诺丁汉举办活动庆祝我们在 Pint of Science 的第 12 个年(品脱科学是一项世界范围的科普节日, 研究人员会到当地的酒吧/咖啡馆/其他公共场所与公众分享他们的科学发现-而听众不需要有相关的知识)。

### 3Rs 支持和培训

我们认识到, 世界各国获得实用的 3Rs 支持和培训存在很大需求。除了我们现有的 3Rs 相关的资源, 实验设计助理(EDA)和自我评估工具等系统及体外实验动物实验体外研究报告 (ARRIVE) 这样的指导方针, 我们将继续开发可追踪的电子学习模块。这个系统可达成个性化评估、颁发证书和获得继续专业发展 (Continuing Professional Development,CPD) 学分的功能, 从建立的鼠标处理模块开始直至进入新的实验设计课程。

在英国, 我们的区域团队将通过提供免费的 3Rs 培训, 将我们的支持扩展到全国的相关机构。工作坊和培训机会的详细信息将很快发布。

Nc3Rs 行政总裁鲁宾逊博士讲到 “在过去的 20 年里, 整个科学领域以 3Rs 为重点的活动推进的强度和速度发生了巨大变化。这是个激动人心的时刻, 我为 Nc3Rs 对此做出的贡献感到自豪。尽管未来还有很多事情要做, 我期待着利用此次周年纪念来庆祝我们所取得的成就, 并为未来的挑战做好计划。但首先, 我想借此机会向所有为 Nc3Rs 迄今为止的成功做出贡献的人表示衷心的感谢——我们的员工和董事会、合作者、工作组及小组成员, 还有我们的资助者。”

20 years of Pioneering Better Science

05 January 2024

This year marks the 20-year anniversary of the NC3Rs. Our Head of Communications, Emma Stokes, looks forward to the celebratory activities we will be undertaking and supporting over the course of 2024, all badged under a new evolved logo.

Since its inception the NC3Rs has worked to put the 3Rs at the heart of, and not an addition to, the scientific process. Engaging with stakeholders at all stages of the research process and applying the 3Rs principles throughout ensures that we are moving towards models that are more reproducible, accurate and in turn, of increased value to the community in driving forward scientific understanding.

The past twenty years has taught us much in terms of how to realise the 3Rs impacts of our work. It is

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not enough to simply develop new methods and approaches; time, thought and funding must be put into their dissemination within the community. They say ‘if you build it they will come’. In reality it takes a significant amount of resource to showcase new methods and approaches until momentum builds to a tipping point and they are taken up and embedded within practice. Our 20-year anniversary provides the perfect opportunity to not only look back on how far we have come, celebrating the people who have helped to get us there, but also look to the what comes next and our goals for the future.

### 20-year anniversary activities

Key areas of work will be showcased, from replacement technologies to toxicology and regulatory sciences and animal welfare. Webinars and events will bring the science to life and provide an opportunity to hear from our grant holders directly about their work, and impact of NC3Rs funding.

We will be using a range of tools and media to reflect on the varied portfolio of work that we not only fund, but that is undertaken by our in-house team of scientific staff. From our innovation and CRACK IT programmes to our work on improving the design and rigour of animal research through our experimental design programme, we will be looking at the longer term impacts and achievements of these areas of work.

### Establishing Networks

Community sits at the heart of what the NC3Rs does, from strategic partnerships with key players to the collaborations we foster and encourage. 2024 will see us take this further. Through the establishment of Networks we will look to support and encourage collaboration in areas of strategic interest. The first two Networks will focus on the areas of cardiovascular research and NAMs\* with launch events taking place in the first half of the year. More information is due in our January newsletter, make sure you are subscribed.

### Public engagement

We are encouraging any researcher with a project with clear 3Rs impacts to head out and engage with the public about their research. Our Public Engagement awards have increased in scope (to also include research supported by any funder) and amount (up to £2k) to promote this activity in our anniversary year. Alongside the award scheme we will be celebrating our 12th year at Pint of Science with events scheduled in Manchester, London and Nottingham.

### 3Rs support and training

We recognise that there is an appetite for practical 3Rs support and training globally. Alongside our existing 3Rs resources, systems like the Experimental Design Assistant (EDA) and self-assessment tools, and guidelines like ARRIVE, we will look to move into trackable e-learning modules. These will allow for personalised assessment and the awarding of certificates and CPD points, starting with our established mouse handling module and moving into new experimental design courses.

In the UK, our regional team will evolve to expand our support to institutions nationwide by offering free 3Rs support and training. Details of workshops and training opportunities will be released shortly.

“Over the last 20 years, there has been a big shift in the intensity and pace of 3Rs-focused activities across the scientific sector. It has been an exciting time and I am proud of the contributions that the NC3Rs has made to this. There is still much to do though and I am looking forward to using our anniversary year to both celebrate what has been achieved and to plan for the challenges ahead. But first I would like to take this opportunity to say huge thanks to all those who have contributed to the success of the NC3Rs to date – the NC3Rs staff and Board, our collaborators, working group and panel members and of course our funders.”

Dr Vicky Robinson, Chief Executive NC3Rs

\*In recent years, the term new approach methodologies (NAMs) has come into common use in some parts of the biosciences sector – there are various definitions for NAMs but we use the term to specifically describe replacement technologies (full and partial) for use in assessing chemical or drug toxicity. You can find more information on the way the NC3Rs uses the terms on our 3Rs page.

网址: <https://www.nc3rs.org.uk/news/20-years-pioneering-better-science>

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