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The booklet is published after each examination series, as soon as the assessment materials become available to the public.

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Where an exam paper has more than one document associated with it, each document is identified with its separate acknowledgements.

**From the January 2013 series onwards, only the examination material containing third party material will be included in the Acknowledgement Booklet. Therefore please assume that any exam papers or subject areas not listed in this booklet are entirely © OCR.**

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<b>Level 3 Applied Science</b>				
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 1: Science fundamentals</b>	Question Paper	Q5	© Chatchawat Prasertsom, Shutterstock Photo Library, www.shutterstock.com
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 2: Laboratory techniques</b>	Question Paper	Q2(c), Fig. 2.3  Q4(b), Fig. 4.1 and 4.2  Q4(c)  Q6(a)(ii), Fig. 6.1 and 6.2	Akkawi, M et al, 'HPLC separation and in vitro antimalarial studies of Artemisia annua plants from two different origins: Cameroon versus Luxembourg', 2014, Malaria World Journal. Reproduced by the Creative Commons Attribution Licence (CC-BY).  Source: www.i.imgur.com. OCR is aware that third party material appeared in this exam but it has not been possible to contact and acknowledge the source.  © Animated Healthcare Ltd, Science Photo Library, www.sciencephoto.com  Kaur, R et al. 'Effect of chlorhexidine, povidone iodine, and ozone on microorganisms in dental aerosols: Randomized double-blind clinical trial, 2014', 25(2), 160-165, www.ijdr.in, Indian Journal of Dental Research. Reproduced under the Open access - Creative Commons Licence.

<b>Level 3 Applied Science (cont)</b>				
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 3: Scientific analysis and reporting</b>	Question Paper	Q2, Fig. 2.1	Lewis, S, Cratsley, C & Demary, K 'Mate recognition and choice in Photinus fireflies', December 2004, 41: 809–821, <a href="http://www.sekj.org">www.sekj.org</a> , Finnish Zoological and Botanical Publishing Board. Reproduced by kind permission of the Finnish Zoological and Botanical Publishing Board.
			Q6(b)	Tankeshwar Acharya, adapted from 'Bacterial Culture Media: Classification, Types, Uses', <a href="http://www.microbeonline.com">www.microbeonline.com</a> , Microbe Online. Reproduced by kind permission of Tankeshwar Acharya.
			Q6(c)(i)	© ferryina, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
			Q6(d)(i)	OCR is aware that third party material appeared in this exam but it has not been possible to identify and acknowledge the source.
			Q7(b), Fig. 7.2	'Comparison of occupant head acceleration between the crash test and MADYMO simulation', <a href="http://www.researchgate.net">www.researchgate.net</a> , ResearchGate. Reproduced under the Creative Commons Licence Attribution 3.0 Unported (CC BY 3.0).

<b>Level 3 Applied Science (cont)</b>				
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 22: Global scientific information</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 23: Scientific research techniques</b>	Question Paper	Q1, Fig. 1.1	E Mountjoy, N M Davies, D Plotnikov, G D Smith, S Rodriguez, C E Williams, J A Guggenheim, D Atan 'Education and myopia: assessing the direction of causality by mendelian randomisation' 6 June 2018, <a href="http://www.bmj.com">www.bmj.com</a> , BMJ. Reproduced under the Open access - Creative Commons Licence.
			Table 2.2, Source A	'Food Safety Act 1990 - Food safety and consumer protection', <a href="http://www.legislation.gov.uk">www.legislation.gov.uk</a> , Food Safety Act 1990. Reproduced under the Open Government Licence v3.
			Table 2.2 Source B	Adapted from 'Microbiology', <a href="http://www.eurofins.com">www.eurofins.com</a> , eurofins BioPharma Product Testing. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
			Table 2.2 Source C	Source: <a href="http://www.lumnicleanse.com">www.lumnicleanse.com</a> . OCR is aware that third party material appeared in this exam but it has not been possible to contact and acknowledge the source.

<b>Level 3 Applied Science (cont)</b>				
<b>05847, 05848, 05849, 05874, 05879</b>	<b>Unit 23: Scientific research techniques (cont)</b>	Question Paper	Table 2.2 Source D	Adapted from 'UV Light That is Safe For Humans but Bad for Bacteria and Viruses', 9 February 2018, <a href="http://www.genengnews.com">www.genengnews.com</a> , Genetic Engineering and Biotechnology News. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
			Table 2.2 Source E	A McLeod, K H Liland, J E Haugen, O Sorheim, K S Myhrer, A L Holck, adapted from 'Chicken fillets subjected to UV-C and pulsed UV light: Reduction of pathogenic and spoilage bacteria, and changes in sensory quality', 23 November 2017, <a href="http://www.onlinelibrary.wiley.com">www.onlinelibrary.wiley.com</a> , Wiley Online Library. Reproduced under the Creative Commons Attribution 4.0 International (CC BY 4.0).
			Table 2.2 Source F	Adapted from 'Case Studies', <a href="http://www.quadram.ac.uk">www.quadram.ac.uk</a> , Quadram Institute. Reproduced by kind permission of the Quadram Institute.
			Table 2.2 Source G	Hannah Fox, 'Why you should think twice before buying that UVC disinfection gadget', 3 May 2021, <a href="http://www.which.co.uk">www.which.co.uk</a> , Which? News. Reproduced by kind permission of Which?
			Q3, Fig. 3.1	© Deyan Georgiev, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>

### Level 3 Applied Science (cont)

<p><b>05847, 05848, 05849, 05874, 05879</b></p>	<p><b>Unit 23: Scientific research techniques (cont)</b></p>	<p>Question Paper</p> <p>Pre-Release</p>	<p>Q3, Fig. 3.2</p> <p>Source A</p> <p>Source B</p>	<p>© tetiana_u, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a></p> <p>Adapted from 'Trawl fishing ban off Sussex coast aims to restore seaweed forests', 22 March 2021, <a href="http://www.theguardian.com">www.theguardian.com</a>, PA Media, The Guardian. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.</p> <p>Matthew Bennion, Chris Yesson, Juliet Brodie, adapted from 'Remote sensing of kelp: novel methods for mapping and monitoring wild kelp resources', 16 November 2017, <a href="http://www.macroalgalresearchgroup.com">www.macroalgalresearchgroup.com</a>, Macroalgal Research Group. Reproduced by kind permission of Juliet Brodie.</p>
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## Level 2 Business

<b>05891, 05892</b>	<b>Unit 1: Principles of working in business administration</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05891, 05892</b>	<b>Unit 2: Understand the role of an administrator</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 3 Business</b>				
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 1: The business environment</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 2: Working in business</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 3: Business decisions</b>	Question Paper	Q3(a)	Chris Martin, Steven Hope, Sanah Zubairi, Ipsos MORI Scotland, 'The role of digital exclusion in social exclusion' page 9, September 2016, <a href="http://www.carnegie_uk_trust">www.carnegie_uk_trust</a> , Carnegie UK Trust. Licensed under the Creative Commons Attribution-ShareAlike 3.0 Unported Licence.
		Pre-release	Appendix 1	Adapted from 'The Mobile Economy Sub-Saharan Africa 2019', <a href="http://www.gsma.com">www.gsma.com</a> , GSMA Intelligence © GSMA Intelligence 2018. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
			Appendix 2	Adapted text from online article by Sarah Knapton, 'Discarded phones, computers and electronics behind world's fastest growing waste problem' 13 December 2017, <a href="http://www.telegraph.co.uk">www.telegraph.co.uk</a> , © Telegraph Media Group Limited 2017.

<b>Level 3 Business (cont)</b>				
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 9: Human resources</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 10: Economics for business</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 15: Change management</b>	Question Paper/ Resource Booklet		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 2 Digital Media</b>				
<b>05897, 05899</b>	<b>Unit 1: Digital media and emerging technologies</b>	Computer Based Test	Q3	OCR is aware that third party material appeared in this exam but it has not been possible to identify and acknowledge the source.
<b>05897, 05899</b>	<b>Unit 2: Principles of concept design and pre-production</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 3 Digital Media</b>				
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 1: Media products and audiences</b>	Insert	Fig. 1  Fig. 2  Fig. 3	<p>Data from 'How often, if at all, do you watch men's English Premier League football matches, either on television or live at a stadium?' YouGov - VAR. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.</p> <p>Data from 'Most-watched sports games on television in the UK in 2019', 1 June 2021, <a href="http://www.statista.com">www.statista.com</a>, Statista 2021. Item removed due to third party copyright restrictions.</p> <p>Diagram adapted from online Qualitative research report 'An exploration of people's relationship with PSB, with a particular focus on the views of young people', July 2020, <a href="http://www.ofcom.org.uk">www.ofcom.org.uk</a>, © Ofcom 2020.</p>
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 2: Pre-production and planning</b>	Question Paper/Insert		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 6: Social media and globalisation</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 25: Research for product development</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 2 Engineering</b>				
<b>05887, 05888</b>	<b>Unit 1: Fundamentals of mechanical, electrical/electronic and fluid power engineering</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05887, 05888</b>	<b>Unit 2: Application of engineering principles</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 3 Engineering</b>				
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 1: Mathematics for engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 2: Science for engineering</b>	Question Paper	Q2(a), Fig. 1	Aircraft silhouette © 4LUCK, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 3: Principles of mechanical engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 4: Principles of electrical and electronic engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 23: Applied mathematics for engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 24: Project management for engineers</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 2 Health &amp; Social Care</b>				
<b>05880, 05881</b>	<b>Unit 1: Principles of working in health, social care and childcare</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05880, 05881</b>	<b>Unit 2: Health and safety in practice</b>	Computer Based Test	Q1(e), Image 2	(Modified image), © Tartila, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>



<b>Level 3 Health &amp; Social Care</b>				
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 2: Equality, diversity and rights in health and social care</b>	Question Paper	Q1(a)	Adapted from 'Human Rights Act 'absolutely key' to big justice fights of last 20 years', 9 November 2018, <a href="http://www.amnesty.org.uk">www.amnesty.org.uk</a> , Amnesty International UK. Reproduced by kind permission of Amnesty International UK.
			Q2(a)	Adapted from 'Accessible Information Standard How do GP practices make their services accessible to patients with a communication support need?' 8 May 2018, <a href="http://www.healthwatchislington.co.uk">www.healthwatchislington.co.uk</a> , Healthwatch Islington. Reproduced by kind permission of Healthwatch Islington.
			Q4(a)	Chaka L Bachmann (Stonewall) and Becca Gooch, (YouGov). Adapted from 'LGBT in Britain', <a href="http://www.stonewall.org.uk">www.stonewall.org.uk</a> , Stonewall. Reproduced by kind permission of Stonewall.
			Q5(a)	Adapted from 'Concerns over lack of clinical training causing avoidable learning disability deaths', 15 February 2018, <a href="http://www.mencap.org.uk">www.mencap.org.uk</a> , Mencap. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 3: Health, safety and security in health and social care</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 3 Health &amp; Social Care (cont)</b>				
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 4: Anatomy and physiology for health and social care</b>	Question Paper	Q2(a)(i)  Q4(e)	© lukaves, iStock Photo Library, <a href="http://www.istockphoto.com">www.istockphoto.com</a>  (Modified), © Vecton, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 6: Personalisation and a person-centred approach to care</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 7: Safeguarding</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 25: Research methods in health, social care and childcare</b>	Pre-release	Research Article A  Research Article B	Adapted from an article by Edward Melhuish, 'Longitudinal research and early years policy development in the UK', 7 September 2016, International Journal of Child Care and Educational Policy, <a href="http://www.ijccep.springeropen.com">www.ijccep.springeropen.com</a> . Reproduced under open access terms.  Adapted text from an article by Laura Di Bona, Sheila Kennedy, Gail Mountain 'Adopt a Care Home: An intergenerational initiative bringing children into care homes', Dementia, Volume 18, Issue 5, pp 1679–1694 © 2017 The Author(s) under the terms of the CC-BY-NC-ND licence.

### Level 3 Health & Social Care (cont)

<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 25: Research methods in health, social care and childcare (cont)</b>	Pre-release	Research Article C	Adapted text from an article by Inderpal Singh, Daniel Duric, Alfe Motoc, Chris Edwards, Anser Anwar, 'Relationship of Prevalent Fragility Fracture in Dementia Patients: Three Years Follow up Study', Geriatrics, 30 November 2020, Volume 5, Issue 4. Published under an open access Creative Common CC BY Licence.
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## Level 2 IT

05883, 05884	<b>Unit 1: Essentials of IT</b>	Computer Based Test	Q1  Q15  Q26	© yongyuan, iStock Photo Library, <a href="http://www.istockphoto.com">www.istockphoto.com</a>  © Sanny11, iStock Photo Library, <a href="http://www.istockphoto.com">www.istockphoto.com</a>  © Science Photo Library, Getty Images, <a href="http://www.gettyimages.co.uk">www.gettyimages.co.uk</a>
05883, 05884	<b>Unit 2: Essentials of Cyber Security</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 IT

<b>Level 3 IT</b>				
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 1: Fundamentals of IT</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 2: Global information</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 3: Cyber security</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit CC: Cloud Technology</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

<b>Level 3 Performing Arts</b>				
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 1: Prepare to work in the performing arts sector</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 2C: Proposal for a commissioning brief</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 3: Influential performance practice</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 32: Arts administration</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 33: Original performance</b>	Pre-release	Performance stimulus 1  Performance stimulus 2	© KornT, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>  Transcript of Barack Obama's Victory Speech, 5 November 2008, Election 2008. OCR is aware that third party material appeared in this exam but it has not been possible to identify and acknowledge the source.

## Level 2 Sport

<b>05885, 05886</b>	<b>Unit 1: Physical activity, health and wellbeing</b>	Computer Based Test	Q12-14, Fig. 2  Q35-37, Fig. 4	© leonello, iStock Photo Library, <a href="http://www.istockphoto.com">www.istockphoto.com</a>  Adapted from 'Active Lives Adult Survey', November 2019/20 Report, published April 2021, <a href="http://www.sportengland.org">www.sportengland.org</a> , Sport England. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
<b>05885, 05886</b>	<b>Unit 2: Physical preparation and readiness for sport and physical activity</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Sport

05826, 05827, 05828, 05829, 05872	<b>Unit 1: Body systems and the effects of physical activity</b>	Question Paper	Q15  Q17	(Modified) © Elen Bushe, Shutterstock Photo Library, www.shutterstock.com  (Modified) © BlueRingMedia, Shutterstock Photo Library, www.shutterstock.com
05826, 05827, 05828, 05829, 05872	<b>Unit 3: Sports organisation and development</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations
05826, 05827, 05828, 05829, 05872	<b>Unit 4: Working safely in sport, exercise, health and leisure</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations
05826, 05827, 05828, 05829, 05872	<b>Unit 21: The business of sport</b>	Question Paper	Q17(a)	James Hale, adapted from 'How much did Logan Paul and KSI make from their 'YouTube World Boxing Championship'? A lot', 27 August 2018, www.tubefilter.com, Tubefilter. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.  Rachel E Greenspan, adapted from 'How controversial YouTuber Jake Paul became a must-watch boxer', 30 November 2020, www.insider.com, Insider. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.



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