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## The Institute for Research in Child Development



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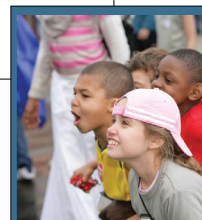
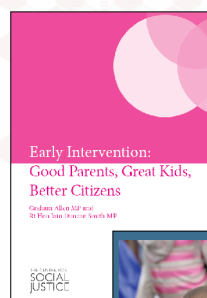
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### Context

- There is an increasing focus on early intervention and assessment
- Cross party interest in disadvantaged children and the impact of social deprivation on educational and social outcomes.
- Department of Health concerned with children's engagement with health and ...
- Everyone interested in improving childhood "wellbeing" and the potential socio-economic impact.
- Recognised need for better methods

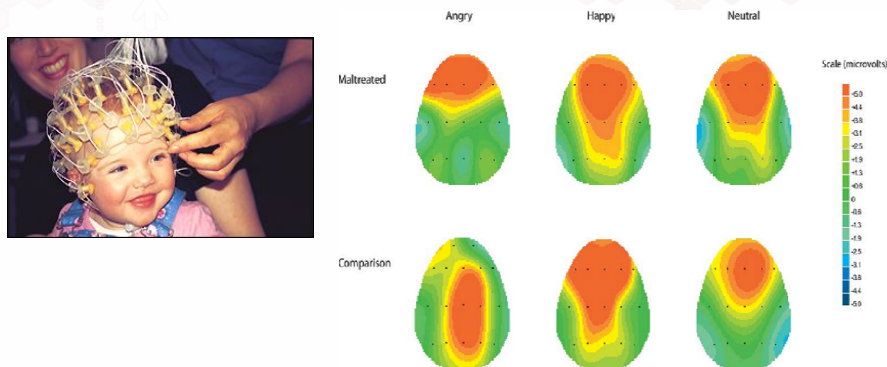


**The Bercow Report**

A Review of Services for Children and Young People (0-19) with Speech, Language and Communication Needs

### Need to consider children's brains...

There are ever improving methods that allow researchers to detect the effects of risk factors on the early brain development of children.

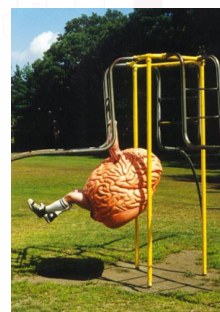


### ...and that development is dynamic

brain development must be understood within complex psychological, social and environmental contexts

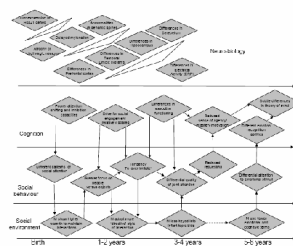
"Understanding development itself is the key to understanding developmental disorders" Karmiloff-Smith (1998)

"to trace back the origins of complex social behaviour requires a focus on developmental mechanisms, not static lesions or deficits" Pollock (2006)



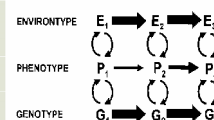
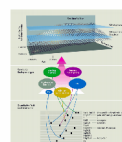
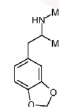
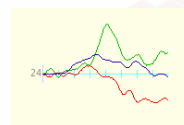
## Dealing in complexity

- The reality is that studying children requires a wide perspective, large scale studies, multiple methodologies and theoretical rigour.
- Child development is a confusing and complex thing...
- IRCD expertise spans the disciplines of Psychology, Neuroscience, Health, and Education. Our work is cited across a wider range of disciplines.
- We continue to expand by working with people across other disciplines to help understand these complexities



## Current themes

- **Adapting methodologies to help explore real world problems**
- **Understanding biological, social and environmental effects on children's cognition, health, and wellbeing**
- **Understanding development itself.**







### Some of our current projects

- Longitudinal studies
  - DAISY study (NiH funded)
  - ELAS study (Eranda funded)
  
- Health related interventions
  - Hydration study (Nestle Funded)
  - Well London study (Wellcome funded)



### Some projects in development: from infant brains to social gains

	Pre-natal stress, genetic factors, and the development of early language across European populations	ERC/ ESRC	£722k
	Differences in infant brain responses to audio-visual speech congruence: relationships with attention, social interaction, and language outcomes.	ESRC	£99k
	Using new technologies to engage parents from disadvantaged areas of East London in the assessment of the language and social development of their babies.	Nuffield foundation	£159k
	Evaluating the impact of urban regeneration on health and health inequalities in adolescents and their parents.	NIHR	£2.6m
	Britishness and the Olympics: children's national identity through the journey of the 2012 games	ESRC	£468k

### East London partners

- IHHD
- QMUL
- Newham hospital trust
- Homerton hospital trust
- Tower Hamlets children's services
- More being developed



- See [www.uel.ac.uk/IRCD/people](http://www.uel.ac.uk/IRCD/people) for wider academic collaborators

### IRCD contribution to interdisciplinary work@uel

- Provide in depth understanding of children's cognitive and social development
- Provide the hard theoretical underpinnings to studies of the effect of social change on children
- Provide expertise in a range of methodological approaches
- Provide links to child development experts in the UK and overseas.
- Use our experience of assessing children from infancy through to adolescence
- Use our experience in running projects and gaining funding.





## RESEARCH & KNOWLEDGE EXCHANGE Conference 2010



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### Outputs 2008 to date for REF2013

1. Cebula, K., **Moore, D.G.** & Wishart, J. (2010) Social Cognition in Children with Down's Syndrome: Challenges to Research and Theory Building. Invited Review. *Journal of Intellectual Disability Research*, 54, 113-134
2. Csibra, G., **Kushnerenko, E.**, & Grossmann, T. (in press). Electrophysiological methods in studying infant cognitive development. To appear in C. Nelson & M. Luciana (Eds.), *Handbook of Developmental Cognitive Neuroscience* (2nd Edition) MIT Press, Cambridge, MA.
3. **Edmonds, C.J.** & Burford, D. (2009). Should children drink more water? The effects of drinking water on cognition in children. *Appetite*, 52, 776-779.
4. **Edmonds, C.J.** & Jeffes, B. (2009). Does having a drink help you think? 6-7 year old children show improvements in cognitive performance from baseline to test after having a drink of water. *Appetite*, 53, 469-472.
5. **Edmonds, C.J.**, Isaacs, E.B., Cole, T.J., Rogers, M., Lanigan, J., Singhal, A., Gringras, P., Denton, J., & Lucas, A. (under revision). Effects of birthweight on cognition in childhood: a monozygous twin study. *Pediatrics*
6. **Edmonds, C.J.**, Isaacs, E.B., Visscher, P.M., Rogers, M., Lanigan, J., Singhal, A., et al. (2008). Inspection time and cognitive abilities in twins aged 7 to 17 years: development, heritability and genetic covariance. *Intelligence*, 36, 210-225.
7. Fewtrell, M.S., Bishop, N.J., **Edmonds, C.J.**, Isaacs, E.B. & Lucas, A.L. (2009). Aluminium exposure from intravenous feeding solutions and later bone health: 15 year follow-up of a randomised trial in preterm infants. *Pediatrics*, 124, 1372-1379.
8. Gillibrand, R., **Lam, V. L.**, & O'Donnell, V. (forthcoming, eds.). *Developmental psychology: A European text*. Harlow: Pearson.
9. Guerrero, S., Enesco, E., & **Lam, V.** (under review). Racial awareness, cognitive performance and affect: a study with preschool children. *Social Development*.
10. Jansson-Verkasalo, E., Ruusuvirta, T., Huotilainen, M., Alku, P., **Kushnerenko, E.**, Suominen, K., Rytty, S., Luotonen, M., Kaukola, T., Tolonen, U., Hallman, M. (submitted). Delayed perceptual narrowing in prematurely born human infants is associated with compromised language performance at 2 years of age. *Proc Natl Acad Sci U S A*
11. **Kushnerenko E.**, Teinonen T., Volein A., Csibra G. (2008) Electrophysiological evidence of illusory audiovisual speech percept in human infants. *Proc Natl Acad Sci U S A*. 2008 105(32):11442-5.
12. **Kushnerenko, E.**, Johnson, M.H. (in press) The Newborn Behavior. To appear in Lagercrantz, H. Hanson, M., Peebles, M., & Evrard, P. (Eds) *The Newborn Brain: Neuroscience and Clinical Applications* (2nd Edition)
13. **Lam, V. L.**, & Leman, P. J. (2009). Children's gender- and ethnicity-based reasoning about foods. *Social Development*, 18, 478-496.
14. **Lam, V. L.**, Guerrero, S., Damree, N., & Enesco, I. (in press). Young children's racial awareness and affect in a multiracial context. *British Journal of Developmental Psychology*.

## RESEARCH & KNOWLEDGE EXCHANGE Conference 2010



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15. **Lam, V.**, & Smith, G. (2009). African and Caribbean adolescents in Britain: ethnic identity and Britishness. *Ethnic and Racial Studies*, 32, 1248-1270.
16. Leipälä, J., Partanen, E., **Kushnerenko, E.**, Huotilainen, M., Fellman, V. (Submitted) Perinatal cerebral insults alter auditory event-related potentials. *Early Human Development*
17. Leman, P. J., & **Lam, V. L.** (2008). The influence of race and gender of children's conversations and playmate choices. *Child Development*, 79, 1329-1343.
18. **Moore, D.G.** (in press) The development of levels of understanding of human motion, form and meaning: evidence from the perception of human point-light displays by infants and people with autism. In: *Early development of Body Representations*, Brownell C. & Slaughter V. (Eds) Cambridge University Press
19. **Moore, D.G.**, Goodwin, J.E., & Oates, J.M. (2008) A modified version of the BSID-II scales for cognitive matching of infants with and without Down syndrome. *Journal of Intellectual Disability Research* 52(6), 554-561.
20. **Moore, D.G.**, Oates J.M., Goodwin, J.E., & Hobson, R.P. (2008). Behaviour of infants with Down syndrome and their mothers in the still-face paradigm. *Infancy* 13(1), 75-89
21. **Moore, D.G.**, Turner, J.J.T. et al (in press) In-utero exposure to Ecstasy (MDMA) and Methamphetamine (MA): preliminary findings, limitations and predictions. Invited chapter for Philip Preece and Ed Riley (Eds). *The price for the child. Exposure to foetal teratogens and long-term neuro-developmental outcome*.
22. **Moore, D.G.**, Turner, J.J.T., Parrott, A.C., Goodwin, J.E., Fulton, S.E., Min, M.O., Fox, H.C., Braddick, F.M.B., Toplis, A., **Axelsson, E.L.**, Lynch, S., Ribeiro, H., Frostick, C.J. & Singer L.T. (in press) During pregnancy, recreational drug-using women stop taking ecstasy (MDMA) and reduce alcohol consumption but continue to smoke tobacco and cannabis. *Journal of Psychopharmacology*
23. Nobes, G., Panagiotaki, G. & **Pawson, C. J.** (2009) The influence of negligence, intention, and outcome on children's moral judgments. *Journal of Experimental Child Psychology*, 104, p.382-397
24. Parron, C., Da Fonseca, D., Santos, A., **Moore, D.G.**, Monfardini, E., & Deruelle, C. (2008) Recognition of biological motion in high functioning children with Autistic Spectrum Disorders. *Autism* 12, 261-274
25. **Tomalski P.** & Johnson M.H. (in press). What are the effects of early adversity on the adult and developing brain? *Current Opinion in Psychiatry*.
26. **Tomalski, P.**, Csibra, G., & Johnson, M. H. (2009). Rapid orienting toward face-like stimuli with gaze-relevant contrast information. *Perception*, 38(4), 569-578.
27. **Tomalski, P.**, Johnson, M. H., & Csibra, G. (2009). Temporal-nasal asymmetry of rapid orienting to face-like stimuli. *Neuroreport*, 20(15), 1309-1312.
28. Wall, M., Hayes, R., **Moore, D.G.** et al (2009) Evaluation of community level interventions to address social and structural determinants of health: a cluster randomised controlled trial. *BMC Public Health* 9:207



### Output quality

Journal name	N	IF
Proceedings of the National Academies of Science	ü ü	9.4
Pediatrics	ü ü	4.8
Child Development	ü	3.8
Current Opinion in Psychiatry	ü	3.8
Intelligence	ü	3.8
Journal of Psychopharmacology	ü	3.8
Autism	ü	2.7
Appetite	ü ü	2.3
Journal of Experimental Child Psychology	ü	2.3
Infancy	ü	2.2
Early Human Development	ü	2.1
BMC Public Health	ü	2.0
Journal of Intellectual Disability Research	ü ü	1.9
Neuroreport	ü	1.9
British Journal of Developmental Psychology	ü	1.6
Perception	ü	1.4
Social Development	ü ü	1.1
Ethnic and Racial studies	ü	0.9
Mean		3.1



### Future



- Develop UEL world reputation in social neuroscience and social deprivation
- Make people understand the importance of considering a wider range of methods and approaches
- Make “UEL working for children” a cross-university theme
- Become the “go-to” world centre for complex longitudinal studies of SES-related effects in childhood

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