



Breaking Through

The newsletter of the University of Ottawa Institute of Mental Health Research

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Research & Clinical Highlights

Virtual Reality Exposure Training for Anxiety Disorders by Dr. Amy Moustgaard on behalf of the Anxiety Disorders and the Operational Stress Injury Programs.

The Anxiety Disorders Program and the Operational Stress Injury Clinic have been successful in obtaining support from the Royal Ottawa Foundation for Mental Health, Veteran Affairs Canada and the United We Care Fund for the purchase of a Virtual Reality Exposure Therapy (VRET) system.

Exposure to feared stimuli, objects, and situations is considered by many experts to be an essential component of effective treatment for all anxiety disorders. Technological advances, such as virtual reality, have become useful methods of enhancing exposure to certain phobic stimuli, especially to stimuli where *in vivo* exposure would not be practical (e.g., fear of thunderstorms) or dangerous or unethical (e.g., posttraumatic events).

As both clinical programs employ exposure-based therapy within a cognitive behavioral therapy (CBT) framework to a range of anxiety-related disorders, the addition of VRET to current treatment protocols has the potential to increase patients access to exposure stimuli and improve treatment outcome.

Team members have had orientation training to the various software suites available (e.g., Virtual Iraq/Afghanistan, public speaking, flying, heights) and are in the process of integrating these new exposure-based paradigms to current programming. In addition, methods to examine effectiveness through outcome evaluation are being explored.



Editorial Notes

From the desk of Dr. Zul Merali, President & CEO of the University of Ottawa Institute of Mental Health Research (IMHR), and Director of Research at The Royal

As I reflect upon the collective activities and achievements at IMHR over the year past, I can honestly say that 2010 has been a year of memorable achievements. The strategic directions of the three corporate entities of The Royal, namely the Royal Ottawa Health Care Group (ROHCG), the Royal Ottawa Foundation for Mental Health (ROFMH) and the University of Ottawa Institute of Mental Health Research (IMHR) are fully aligned. Specifically, *Advancing Discovery* (or patient care informed by discovery) is one of the five core strategic directions of the ROHCG, which dovetails with IMHR's *From the Neuron to the Neighborhood* philosophy. An exciting collective and integrated initiative is the launch of the *Depression Research Centre*. The operating infrastructure and core technology for this initiative forms the major *Case for Support* being championed by the ROFMH. Even in the midst of a turbulent economy and difficult grant-funding environment, Research at The Royal continues to thrive and we have a lot to be proud of. Our Young Researchers hosted a very successful 3rd Annual Conference, attracting over 150 students and speakers from over 5 different universities. Our researchers continue to carry out cutting-edge research that attracts international attention (see Recent Publications & Presentations); and our ever-popular public lecture series engages and informs our community partners about exciting programs of care and research being carried out at The Royal.

Next year will continue to bring challenges and opportunities. However, I am confident that our collective efforts of research and clinical staff, young trainees and volunteers – working in partnership – will continue to make IMHR a beacon of hope for people impacted by mental illness and addiction.

Grants, Awards & Distinctions – Kudos !



Dr. John T. Arnason (an ethnobotanist), **Dr. Tony Durst** (a chemist), and **Dr. Zul Merali** (behavioral neuroscientist) were awarded a grant from the Natural Sciences and Engineering Research Council of Canada (NSERC) - through the 'Idea to Innovation Program'. This project entitled "Development of a botanical anxiolytic for the animal health market" will help to identify novel anti-anxiety

compounds from rare Costa Rican plants, to help alleviate effects of stress and anxiety in animals and humans.



The Canadian Institutes of Health Research (CIHR) recently awarded **Dr. Kimberly Matheson**, Professor and Vice-President (Research and International) at Carleton University, and her team including **Dr. Hymie Anisman** and **Dr. Zul Merali**, a Planning and Dissemination Grant entitled "Eliminating Stigma Barriers to Mental Health Care: Targeting the Health Professions". This led to a successful 2-day conference hosted at Carleton University (details in the next Newsletter Issue).



Dr. Paul Fedoroff, Director of the IMHR Forensic Research Unit, and Director of the Royal Ottawa Sexual Behaviours Clinic, was awarded the "Most de-stigmatizing story by a psychiatrist" for his submission to the Canadian Psychiatry Association President's Writing Contest. His paper described the fact that rates of sexual offense in Canada are dropping. He also explained that research has

dramatically improved the treatment and prognosis of men and women with problematic sexual interests.

Dr. Fedoroff was also recently awarded a "Sexual Intelligence Awards". Sexual Intelligence Awards honor individuals and organizations which challenge the sexual fear, unrealistic expectations, and government hypocrisy that undermine love, sex, and relationships and political freedom (ref.: www.sexualintelligence.orgawards.html#Fedoroff).



Dr. Takashi Nakao, Postdoctoral Fellow under the supervision of Dr. Georg Northoff in the IMHR Mind, Brain Imaging and Neuroethics Research Unit, was awarded a Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship totaling

just over \$13,000. The JSPS Postdoctoral Fellowship program assists promising and highly qualified young foreign researchers to conduct cooperative research of mutual interest, spanning Japan and Canada.



Dr. Georg Northoff, Director of the IMHR Mind, Brain Imaging and Neuroethics Research Unit, was recently awarded the Arnold Pfeffer Prize for 2010. The prize is affiliated with the International Society for Neuropsychanalysis, and is awarded annually to "the author of work which, in the judgment of the Committee, best advances the integration of psychoanalytic and neuroscientific knowledge". Prior recipients of the prize include Drs. Eric Kandel, Antonio Damasio, Jaak Pankseep and Helen Mayberg.



Mr. Derek Fisher was recently awarded a Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowship to pursue his studies on the "Processing of auditory-verbal deviance and related cortical morphology in first-episode and chronic schizophrenia patients" at the McLean Hospital, Harvard Medical School, under the supervision of Dr. Dean

Salisbury. Mr. Fisher is completing his doctoral program under the supervision of Dr. Verner Knott in the IMHR Neuroelectrophysiology Laboratory.



Ms. Dhrasti Shah, current Research Coordinator of Dr. Verner Knott in the IMHR Neuroelectrophysiology Laboratory, was recently awarded a Frederick Banting and Charles Best Canada Graduate Scholarships – Doctoral Award for her studies on the "Effects of acute nicotine on induced panic in panic disorder patients: a brain event-related potential (ERP) study", to be conducted with Dr. Charles Collin at the University of Ottawa.



Dr. David Hayes, Postdoctoral Fellow under the supervision of Dr. Georg Northoff in the IMHR Mind, Brain Imaging and Neuroethics Research Unit, was awarded a 3-year Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowship totaling \$135,000.

Congratulations to all!!

Young Researchers' Corner

Third Annual IMHR Young Researchers' Conference by Lisa Batten

The IMHR Young Researchers' Forum is dedicated to providing early career researchers, students, and trainees with educational opportunities in the field of mental health research. This year, Young Researchers' secured grants from CIHR and Eli Lilly that allowed for continued success in educational events and a launch of their own website, www.young-researchers.com. On March 25, 2011 at the Royal Ottawa Mental Health Centre, in collaboration with the University of Ottawa IMHR, Young Researchers' was proud to present its 3rd Annual Conference. It was an exciting day learning and networking, with 145 people registered and attendees coming from various institutes and universities in Ontario and Quebec. The student presentations were outstanding, with 52 poster and oral presentation submissions included in the scientific program. The theme this year was Lab to Life: Translational Mental Health Research. The aim was to highlight the various ways that research findings are translated into clinical applications that affect the individual lives impacted by mental illness.

The conference featured a 2-part keynote address where Rachel Scott-Mignon shared her personal experience living with Bipolar Disorder. Next, Dr. Gustavo Turecki of McGill University shared his research findings about early life adversity and epigenetic changes in suicide completers.



Rachel Scott-Mignon



Dr. Gustavo Turecki

Attendees also participated in an interactive discussion panel about how to get a job after graduation featuring Vanessa Taler, Ph.D. (University of Ottawa), Luc Boulay, Ph.D. (Eli Lilly), and Hanan Abramovici, Ph.D. (Health Canada).



(photos: Gregory Addicks and Delphie Dugal-Tessier)

Educational workshops were given on scholarship applications, publications, and forensic research by Jean-Christian Maillet and David Hayes; Derek Fisher and Lisa Batten; and Dr. Michael Seto. Outstanding oral presentation was recognized through a \$350 cash prize, and best poster presentations were each given \$250 cash prizes.



The winners were as follows: Best Oral Presentation- Amir Tahmasebi, University of Toronto; Best Clinical Research Poster Presentation- Crystal Villeneuve, Carleton University; Best Basic Research Poster Presentation (Tie)- Juan-Pablo Lopez, McGill University and JoJo Jiang, University of Ottawa; Best Undergraduate Poster Presentation- Gary Fine, Carleton University; and Viewers Choice Award (chosen by conference attendees)- Kate Raspopow, Carleton University.



Left to right: Kate Raspopow, Juan-Pablo Lopez, Rachel Scott-Mignon, Lisa Batten, Robert-Paul Juster (2nd place best oral presentation), Amir Tahmasebi and JoJo Jiang.

A sincere thank you to our Sponsors, the Scientific and Organizing Committee, and all Presenters, Attendees and Judges for their contribution to this event.

We look forward to seeing you all next year !

From the Research Ethics & Scientific Review Office

'Minding your Ethics' by Dr. Keith Busby, Research Ethics & Scientific Review Co-ordinator / Research Quality Associate

Formal release of the new *Tri-Council Policy Statement Ethical Conduct for Research Involving Humans [TCPS2]* occurred in early December, 2010, heralding the end of a 3-year process of extensive consultation on the long-awaited revision to this national guideline. Since 1998 when the initial TCPS was formulated by the collaborative efforts of the three major federal granting agencies (CIHR, NSERC and SSHRC), the intervening period has allowed the Canadian research community to implement and subsequently to evaluate its use. The assessment interval has provided the opportunity for various stakeholders such as universities, research institutes, industry sponsors, and research ethics boards to document issues requiring clarification, gaps in application, and the increasing need to expand coverage to better reflect novel and unique aspects of research in the humanities and social sciences. While the previous TCPS had a decidedly biomedical orientation and did provide several updates over the years, the TCPS2 now includes new chapters on multi-jurisdictional and qualitative research, as well as enhancements and reorganization of material related to the consent process, fairness and equity in research participation, privacy and confidentiality, governance of research ethics review, conflicts of interest, research involving the First Nations, Inuit and Métis peoples, clinical trials, human biological materials (including those related to human reproduction), and human genetics research. Of particular value in the new TCPS2, is the enhanced clarity of the individually stated articles within chapters followed in each case by an explicit statement of application, thus enabling better interpretational utility. The TCPS has always been considered a living document which attempts to keep up with the dynamic nature of the research ethics landscape.

- ◆ **A revised TCPS2 Tutorial will become available near the end of April 2011. To access the new TCPS2, go to: www.pre.ethics.gc.ca.**

Research Boot Camp by Dr. Keith Busby

In continuing our series of workshops in support of the *Strategic Directions Initiative – SD#2 – Advancing Discovery*, **Drs. Nicola Wright, David Davies and Owen Kelly** spoke on April 8th, on the topic of “Clinical Service Delivery: Easy Steps to Integrating Research”.

Stay tuned for the upcoming presentation by **Dr. Keith Busby** on “*Navigating the Research Ethics Board (REB): ‘Do You Really Need a GPS Device or Will a Simple Compass Do?’*”

2011 UMRF Grant Competition by Dr. Keith Busby

The **University Medical Research Fund (UMRF)**, an internal research fund provided by the Royal Ottawa Mental Health Centre Associates in Psychiatry practice plan, offers operational grants for new or seed projects. Thanks to the Associates in Psychiatry, the researchers and clinicians at the Royal have an opportunity to compete annually for peer-reviewed UMRF grants aimed at assisting investigators to conduct individual, group, and program-based research projects.

The **deadline for submission** of applications to the next competition is **May 11, 2011 (4:00 pm)**. The Principal Investigator (PI) or a Co-Investigator must be a member of the Department of Psychiatry and the Associates group practice plan in order to apply. An applicant can submit only one proposal as a Principal Investigator (PI), but may apply as a Co-Investigator on more than one application.

For further information, please contact Dr. Keith Busby (ext. 6214 or keith.busby@rohcg.on.ca).

Grants from the 2010 competition were awarded to:

- ◆ **Dr. Paul Fedoroff, Dr. Georg Northoff and Susan Curry** (\$35,000) for their project entitled “fMRI auditory testing in pedophiles: A controlled study.”
- ◆ **Dr. Jonathan Gray, Dr. Paul Fedoroff and Susan Curry** (\$35,000) for their project entitled “Plethysmograph stimulus sets: Does use of age and gender appropriate voices affect arousal to child victim scenarios?”
- ◆ **Dr. Verner Knott, Alain Labelle and Vadim Ilivitsky** (\$35,000) for their project entitled “Sensory memory deficits in schizophrenia: Acute effect of nicotinic agonist strategy and its relationship to global functioning.”
- ◆ **Dr. Georg Northoff** (\$35,000) for his project entitled “Neural and cardiac μ -opioid receptor binding and its modulation of interoceptive neural processing – A combined 11-C-carfentanil PET and fMRI study of brain and heart”.

Around the World ...

An IMHR delegation composed of Drs. Zul Merali, David Armstrong, Jean-Claude Bisserbe, Pierre Blier, David Davies, Georg Northoff, Sabrina Paterniti and Kim Sogge visited the **U.S. National Network of Depression Centers** (NNDC) in Ann Arbor, Michigan on April 18, 2011.

More information to come in the next newsletter edition!

Interesting e-Links ...

- Interesting link of 'Quotations' on Depression: <http://thinkexist.com/quotations/depression/>.
- Link to the UK Foresight Group for recent reports on mental health: <http://www.bis.gov.uk/foresight/our-work/projects/current-projects/mental-capital-and-wellbeing/reports-and-publications>.
- Link to the reports published by the Institute of Medicine of the National Academies: www.iom.edu/Reports.

FAQs / Fun Facts !

From the Douglas Institute, McGill University: "We have demonstrated that specific compounds such as resveratrol present in red wine, polyphenols in chocolate and tea have defined neuroprotective effects," says Dr. Stéphane Bastianetto, Research Associate at the Douglas. "Not only do these compounds have anti-oxidant effects, they also interact with other cellular molecules" [Exp. Neurol. 2010, 225 (2) 237-239].

⇒ **If a person doesn't drink wine, would it benefit him to eat grapes instead?**

No. In wine, the protective factor is not in the juice. It is actually the mold that grows on the grape. If you purchase grapes and leave them in the refrigerator, you will observe that a white powder (mold) forms on the top of the grape. The more mould you have when you let the wine age, the better the taste. The percentage of mold in the recipe is very important. Bordeaux wines have less mold than Burgundy wines, which is why Burgundy wines claim to be more effective against Alzheimer's disease.

Announcements

◆ **Great News from the Department of Psychology!**

The Pre-Doctoral Psychology Residency Program in Clinical Psychology has been awarded the honor of an unconditional Canadian Psychological Association (CPA) accreditation. **Congratulations to the Program Director, Dr. David Davies, his colleagues and Residents for the Program advancements and successes!**

- ### ◆ **Dr. Giorgio Tasca**, Associate Professor in the Department of Psychiatry and Senior Psychologist at TOH, is the recipient of the Faculty of Medicine Tier 2 Research Chair in Psychotherapy Research. The Faculty of Medicine, University of Ottawa Research Chair Award competition support excellence in clinical research with an ultimate view to improve health and/or patient care. Dr. Tasca's proposal is to advance clinical research in Eating Disorders, First Episode Psychosis and Psychotherapy. **Congratulations Dr. Tasca !**

Upcoming Events...

The Ontario Psychogeriatric Team Exchange is scheduled for **June 1-3, 2011** in Toronto. It is the 26th Annual Team Exchange where service providers in the field of Psychogeriatrics gather to network, and enjoy an educational experience. It is attended by teams from across the province and has been organized for the past twenty five years on a rotational basis by the member teams. This year conference attendants should enjoy another rich experience, sharing knowledge on a variety of topics relevant to the population served by Psychogeriatric services.

The Department of Psychiatry 31st Annual Academic & Research Day will be held on **June 2, 2011** at the Royal Ottawa Mental Health Centre. The deadline date for abstract submission for poster presentation of basic, clinical, quantitative, qualitative, theoretical and translational research is **May 6, 2011**. Two **awards** will be offered by the University of Ottawa Department of Psychiatry (for the best poster presentation in clinical research, and in basic science). Two **Young Investigators Awards** will also be offered by the University of Ottawa Institute of Mental Health Research to acknowledge the best presentation in clinical research and in basic science research. For instructions, award guidelines and the abstract form, please refer to the email (April 11, 2011) from **Carmen Lefebvre, Manager, Department of Psychiatry** (clefebvr@rohcg.on.ca; 613-722-6521, ext.6811).

Symposia, Conferences, Meetings, Forum, Lectures ...

- ◆ **Steve Michel and Erika Jansman**, two Research Coordinators based at the Brockville site, presented their research at the **3rd Annual Young Researchers Forum** in Ottawa on March 25. Mr. Michel presented on an evaluation of an innovative metabolic clinic for forensic patients at the Forensic Treatment Unit and Ms. Jansman presented on international trends in demand for forensic mental health services.
- ◆ **The Integrated Forensic Program staff** presented talks or posters at the recent **7th Annual Pacific Forensic Psychiatry Conference** in Vancouver, BC, March 30-April 1. Topics included distinguishing types of dysfunctional anger, assessment of adult ADHD, anger management treatment, characteristics and course of individuals found Not Criminally Responsible on account of Mental Disorder, and adolescent sexual offending [see Recent Publications and Presentations].
- ◆ **Dr. Michael Seto** co-hosted a one-day meeting on ‘**Advancing Our Understanding of Treatment Change among High-Risk Sex Offenders**’ at Carleton University, with **Professor Kevin Nunes** of the Psychology Department. This meeting was funded by Public Safety Canada and featured national and international experts on risk assessment and treatment, including **Drs. Bill and Liam Marshall** of the Integrated Forensic Program.

Recent Publications & Presentations

Publications:

Bradford, J. M. W., Kingston, D. A., Ahmed, A. G., and Fedoroff, J. P. (2010). Commentary: Sildenafil in phallogometric testing—An evidence based assessment of sexual offenders. *Journal of the American Academy of Psychiatry and the Law*, 38, 512-515.

Böker, H., Northoff, G. (2010). Die Entkopplung des Selbst in der Depression: Empirische Befunde und neuropsychodynamische Hypothesen. *Psyche, Z Psychoanal* 64, 934-976.

Corneau, S., Rail, G., and Holmes, D. (2010). Le *pourquoi* du spectacle : motivations relatives à la consommation de pornographie chez les hommes gais. *Canadian Journal of Communication*, 35 (2), 197-218.

Crocker, A. G., Nicholls, T. L., Côté, G., Latimer, E., and Seto, M. C. (2010). Individuals found Not Criminally Responsible on account of Mental Disorder: Are we providing equal protection and equivalent access to mental health services to accused mentally ill individuals across Canada? *Canadian Journal of Community Mental Health*, 29, 1-8. [This is one of the first publications emerging from the National Trajectory Project, a major forensic research initiative funded by the Mental Health Commission of Canada. Dr. Seto is the Ontario lead for this project].

de Greck, M., Gang, W., Yang, X., Wang, Y., Northoff, G., Han, S. (2011). Neural substrates underlying intentional empathy. *Social Cognitive and Affective Neuroscience*.

de Greck, M., Scheidt, L., Bölter, A.F., Frommer, J., Ulrich, C., Stockum, E., Enzi, B., Tempelmann, C., Hoffmann, T., Northoff, G. (2010). Multimodal psychodynamic psychotherapy induces normalization of reward related activity in somatoform disorder. *The World Journal of Biological Psychiatry*, 2010, 00: 1-13.

Dulude L., Labelle A., Knott V. (2010). Acute nicotine alteration of sensory memory impairment in smokers with schizophrenia. *Journal of Clinical Psychopharmacology*, 30, 5, 541-548.

Duncan, N.W., Enzi, B., Wiebking, C., Northoff, G. (2011). Involvement of glutamate in rest-stimulus interaction between perigenual and supragenual anterior cingulate cortex: A combined fMRI-MRS study. *Human Brain Mapping*.

Fan, Y., Duncan, N. W., de Greck, M., Northoff, G. (2010). Is there a core neural network in empathy? An fMRI based quantitative meta-analysis. *Neuroscience and Biobehavioural Reviews*.

Fan, Y., Wonneberger, C., Enzi, B., de Greck, M., Ulrich, C., Tempelmann, C., Bogerts, B., Doering, S., and Northoff, G. (2010). The narcissistic self and its psychological and neural correlates: an exploratory fMRI study. *Psychological Medicine*, doi:10.1017/S003329171000228X.

Recent Publications & Presentations

Flament, M., Bissada, H., Spettigue, W., (2011). Evidence- based pharmacotherapy of eating disorders. *International Journal of Neuropsychopharmacology*, 1-19.

Gagnon, M. and Holmes, D. (2010). Accessibilité aux pharmacothérapies antirétrovirales : vers une compréhension politique de la situation en Afrique sub-saharienne. In S. Yaya (Ed). *Les maux et les choses de la santé : acteurs, pratiques et systèmes de santé dans le Tiers-monde*. Québec : Les Presses de l'Université Laval.

Grimm, S., Ernst, J., Boesiger, P., Schuepbach, D., Boeker, H., Northoff, G. (2011). Reduced negative BOLD responses in the default-mode network and increased self-focus in depression. *World Journal of Biological Psychiatry*, doi:10.3109/15622975.2010.54514.

Hasler, G., Northoff, G. (2011). Discovering imaging endophenotypes for major depression. *Molecular Psychiatry*. 1–16.

Hayes, D.J., Hoang, J., Greenshaw, A.J. (2010). The role of nucleus accumbens shell GABA receptors on ventral tegmental area intracranial self-stimulation and a potential role for the 5HT(2C) receptor. *Journal of Psychopharmacology*, DOI: 10.1177/0269881110389212.

Heinzel, A., Schäfer, R., Müller, H.W., Schieffer, A., Ingenhag, A., Eickhoff, S.B., Northoff, G., Franz, M., Hautzel, H. (2010). Increased Activation of the Supragenual Anterior Cingulate Cortex during Visual Emotional Processing in Male Subjects with High Degrees of Alexithymia: An Event-Related fMRI Study. *Psychother Psychosom*, 79(6):363-370.

Heinzel, A., Schäfer, R., Müller, H.W., Schieffer, A., Ingenhag, A., Northoff, G., Franz, M., Hautzel, H. (2010). Differential modulation of valence and arousal in high-alexithymic and low-alexithymic individuals. *Neuroreport*, 21(15):998-1002.

Holmes, D. and Gastaldo, D. (2010/2004). The Ontology of Nursing – Nursing as Means of Governmentality. In P. Reed, N. Shearer & Leslie H. Nicoll (Eds). *Perspectives on Nursing Theory – 5th Edition*. Philadelphia : Lippincott Williams & Wilkins.

Holmes, D. and O'Byrne, P. (2010). Subjugated to the 'Apparatus of Capture': Self, Sex and Public Health Technologies. *Social Theory and Health*, 8 (3), 246-258.

Holmes, D., O'Byrne, P., and Gastaldo, D. (2010). Transgressive Pleasures: Conducting Research in the *RadSex* Domain. In Ivy Bourgeault (Ed). Sage.

Holmes, D., O'Byrne, P. and Murray, S.J. (2010). Faceless Sex: *Glory Holes* and Sexual Assemblages. *Nursing Philosophy*, 11, 250-259.

Kingston, D. A. (in press). Hypersexual disorder: Conceptualization, assessment, and intervention. In A. Phenix & H. Hoberman (Eds.), *Diagnosis, risk assessment, and management of sexual offenders*.

Kingston, D. A., and Malamuth, N. M (in press). Pornography and Sexual Aggression: Problems with Aggregate Data and the Importance of Individual Differences: Comment on Diamond et al. (2010). *Archives of Sexual Behavior*.

Knott V., Fisher D., Millar A. (2010). Differential effects of nicotine on P50 amplitude, its gating, and their neural sources in low and high suppressors. *Neuroscience*, 2010, 170, 816-826.

Makinen, J.A. and Ediger, L. (2011). Rebuilding Bonds after the Traumatic Impact of Infidelity. In J. L. Furrow, B. Bradley, & S. M. Johnson (Eds.) *The Emotionally Focused Casebook: New Directions in Treating Couples*. New York: Routledge.

McCabe, J. and Holmes, D. (2011). Reversing Kristeva's First Instance of Abjection: The Formation of Self Reconsidered. *Nursing Inquiry*, 18 (1), 1-7.

Milin, R., Walker, S., Duffy, A. (2010). Assessment and Treatment of Comorbid Psychotic Disorders and Bipolar Disorder. *Clinical Manual of Adolescent Substance Abuse Treatment*. Eds. Kaminer, Y., Winters, K. American Psychiatric Publishing Inc.

Recent Publications & Presentations

Nakao, T., Osumi, T., Ohira, H., Kasuya, Y., Shinoda, J., Yamada, J., Northoff, G. (in press). Medial prefrontal cortex–dorsal anterior cingulate cortex connectivity during behavior selection without an objective correct answer. *Neuroscience Letters*.

Northoff, G. (Commentary) (2010). Region-Based Approach versus Mechanism-Based Approach to the Brain. *The International Neuropsychanalysis Society, Neuropathologies of the Self: A General Theory*, 167-170.

Northoff, G. (in press). Self and brain: what is self-related processing? *TICS-949*; DOI: 10.1016/j.tics.2011.03.001.

Northoff, G. (in press). *Neuropsychanalysis in practice: Brain, Self and Objects*, Oxford University Press (<http://ukcatalogue.oup.com/product/academic/pn/psychology/identity/9780199599691.do?sortby=bookTitleAscend>).

Northoff, G., Duncan, N.W., Hayes, D.J. (2011). The brain and its resting state activity - Experimental and methodological implications. *Progress in Neurobiology*.

Northoff, G., Hayes, D.J. (2011). Is Our Self Nothing but Reward? *Biological Psychiatry*, doi:10.1016/j.biopsych.2010.12.014.

Northoff, G., Qin, P. (2011). How can the brain's resting state activity generate hallucinations? A 'resting state hypothesis' of auditory verbal hallucinations. *Schizophrenia Research*.

Northoff, G., Qin, P., Feinberg, T.E. (2011). Brain imaging of the self – Conceptual, anatomical and methodological issues. *Consciousness and Cognition*.

Northoff, G., Wiebking, C., Feinberg, T., Panksepp, J. (2011). The 'resting-state hypothesis' of major depressive disorder—A translational subcortical–cortical framework for a system disorder. *Neuroscience and Biobehavioral Reviews*.

O'Byrne, P. and Holmes, D. (2010). Drug use as Boundary Play: A Qualitative Exploration of Gay Circuit Parties. *Substance Use and Misuse*, 10 (15), 1-13.

O'Byrne, P. and Holmes, D. (2010). Desire, Drug Use, and Unsafe Sex: A Qualitative Examination of Gay Men who Attend Gay Circuit Parties. *Culture, Health & Sexuality*, 1-13.

Perron, A. and Holmes, D. (2010). En marge de l'expérience citoyenne : le cas des personnes atteintes de maladies mentales. *Santé Mentale*, 147, 17-22.

Perron, A., Rudge, T., Blais, AM. and Holmes, D. (2010). The Politics of Nursing Knowledge and Education: Critical pedagogy in the Face of the Militarisation of Nursing in the War on Terror. *Advances in Nursing Science*, 33 (3), 184-195.

Perron, A. and Holmes, D. (2011). Vers une compréhension élargie des phénomènes liés à la santé: l'utilité des sciences sociales au regard de la maladie mentale. In Nicolas Vonarx, Louise Bujold & Louise Hamelin-Brabant (Eds). *Des sciences sociales aux sciences infirmières: les lieux d'une rencontre*. Québec: Les Presses de l'Université Laval.

Perron, A. and Holmes, D. (2011). Constructing Mentally Ill Inmates: Nurses' Discursive Practices in Corrections. *Nursing Inquiry*, 18(1), 1-14.

Qin, P., Di, H., Lui, Y., Yu, S., Gong, Q., Duncan, N.W., Weng, X., Laureys, S., Northoff, G. (2011). Anterior Cingulate Activity and the Self in Disorders of Consciousness. *Human Brain Mapping*.

Qin, P., Liu, Y., Shi, J., Wang, Y., Duncan, N.W., Gong, Q., Weng, X., Northoff, G. (2011). Dissociation between anterior and posterior cortical regions during self-specificity and familiarity: A combined fMRI–meta-analytic study. *Human Brain Mapping*.

Rail, G., Holmes, D., and Murray, S.J. (2010). The Politics of Evidence on “Domestic Terrorists”: Obesity Discourses and their Effects. *Social Theory and Health*, 8 (3), 259-279.

Schwartz, K., O'Brien, A-M., Morel, V., Armstrong, M., Moore, P., Flemming, C. (2011). Community Treatment Orders: The Service User Speaks. *International Journal of Psychosocial Rehabilitation*, 15(1).

Recent Publications & Presentations

Seto, M. C., Hanson, R. K., and Babchishin, K. M. (2011). Contact sexual offending by men arrested for child pornography offenses. *Sexual Abuse: A Journal of Research and Treatment*, 23, 124-145. [This article by Seto et al. was published in the March 2011 issue of the journal, *Sexual Abuse*, which was a special issue on internet-facilitated sexual offending guest-edited by Dr. Seto of the Integrated Forensic Program, along with Dr. Karl Hanson of Public Safety Canada].

St-Pierre, I. and Holmes, D. (2010). The Relationship between Organizational Justice and Workplace aggression. *Journal of Advanced Nursing*, 66 (5), 1169-1182.

Supady, A., Voelkel, A., Witzel, J., Gubka, U., Northoff, G. (2011). How is informed consent related to emotions and empathy? An exploratory neuroethical investigation. *J Med Ethics*, doi:10.1136/jme.2010.037937.

Wiebking, C., de Greck, M., Duncan, N.W., Heinzl, A., Tempelmann, T., Northoff, G. (2011). Are emotions associated with activity during rest or interoception? An exploratory fMRI study in healthy subjects. *Neuroscience Letters*, 491, 87-92 doi:10.1016/j.neulet.2011.01.012.

Zierhut, K., Bogerts, B., Schott, B., Fenker, D., Walter, M., Albrecht, D., Steiner, J., Schütze, H., Northoff, G., Düzel, E., Schiltz, K. (in press). The role of hippocampus dysfunction in deficient memory encoding and positive symptoms in schizophrenia. *Psychiatry Research: Neuroimaging*.

Conference Presentations:

Ahmed, A. G., Kingston, D. A., Gray, J., Bradford, J. M., and Seto, M. C. (2011, March). The assessment and diagnosis of attention deficit hyperactivity disorder in an adult forensic population. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Ahmed, A. G., Kingston, D. A., DiGiuseppe, R., Bradford, J. M., and Seto, M. C. (2011, April). Developing a clinical typology of anger disorders. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Ahmed, A. G., Kingston, D. A., Diguseppe, R., Gray, J., and Woods, V. (2011). Clinical profile of patients presenting with dysfunctional anger. 7th Annual Pacific Forensic Psychiatry Conference. Vancouver, BC.

Bone, M., Jacobs, A.M., Davies, D., Moustgaard, A., Ritchie, L., and Shlik, J. A. Naturalistic study of group cognitive-behavioural treatment of generalized anxiety disorder: Implications for intolerance of uncertainty and comorbid depression. Poster to be presented at the Inaugural Conference of the Canadian Association of Cognitive and Behavioural Therapies, **May 2011**, Toronto.

Busch, S., Kelly, O., Davies, D., Moustgaard, A., Ritchie, L., Anisman, H., and Shlik, J. Group cognitive-behavioural therapy for panic disorder: Efficacy and influence of depressive symptoms on treatment outcome. Poster to be presented at the Inaugural Conference of the Canadian Association of Cognitive and Behavioural Therapies, **May 2011**, Toronto.

Crocker, A. G., Nicholls, T. N., Seto, M.C., Côté, G., and Latimer, E. (2011, April). The National Trajectory Project: A Canadian study of individuals declared Not Criminally Responsible on account of Mental Disorder. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Duffy, A., Milin, R., Horrocks, J. Persson, G., Doucette, S., Leuschen, C., James, T., Grof, P. The Relationship Between Substance Use Disorders and the Early Stages of Bipolar Disorder: A Prospective Longitudinal Study of the Offspring of Bipolar Parents. (2010). Annual Meeting of the American Academy of Child and Adolescent Psychiatry (AACAP), New York.

Eke, A. W., and Seto, M. C. (2011, March). Identifying recidivism risk factors for child pornography offenders from police files. In M. C. Seto (Chair), Child pornography offenders : Characteristics and risk of recidivism. Symposium presented at the 4th International Congress of Psychology and the Law, Miami.

Fedoroff, J.P., Bradford, J., Curry, S., Kingston, D. "Central and peripheral hormones in sexual aggression, and recidivism in sexual offenders." American Academy of Psychiatry and the Law Tucson Arizona, **October 2010**.

Recent Publications & Presentations

Fisher D., Labelle A., Knott V. "Event-related potential and sLORETA correlates of sensory gating in high and low suppressors with schizophrenia." 50th Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon, **September 29- October 3, 2010.**

Gates, M., Marshall, L., and Alquire, T. (2011, April). A new approach to the treatment of domestically violent men: Methods and outcome. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Holmes, D. and O'Byrne, P. (2011). Subjugated to the 'Apparatus of Capture': Self, Sex and Public Health Technologies. Health, Wellness and Society Conference. University of California – Berkeley.

Illing, V., Davies, D., Cantor, Z., Moustgaard, A., and Shlik, J. Assessment of regional treatment needs for obsessive-compulsive disorder. Poster to be presented at the Inaugural Conference of the Canadian Association of Cognitive and Behavioural Therapies, **May 2011**, Toronto.

Impey D., Chique-Alfonzo M., Fisher D., Shah D., Knott V. "Effects of acute nicotine administration on later visual spatial processing." 15th World Congress of Psychophysiology, Budapest, Hungary, **September 1-4th, 2010.**

Jacobs, A.M., Lee, A.M.S., and Bisserbe, J-C. A behavioural activation group treatment protocol for depression. Poster to be presented at the Inaugural Conference of the Canadian Association of Cognitive and Behavioural Therapies, **May 2011**, Toronto.

Jaworska N., Thompson A., Shah D., Fisher D., Ilivitsky V., Knott V. "The late positive potential to emotive faces after acute tryptophan depletion in individuals with a family history of depression." 50th Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon, **September 29- October 3, 2010.**

Kelly, O., Bone, M., Davies, D., Moustgaard, A., Ritchie, L., Shlik, J. Comparison of the Psychometric and Predictive Properties of Self-report Measures Assessing Symptom Severity and Functional Impairment in a Specialized Anxiety Disorders Program. Poster to be presented at the 72nd Annual Convention of the Canadian Psychological Association, **June 2011**, Toronto.

Knott V., Millar A., McIntosh J., Villeneuve C., Fisher D., Ilivitsky V., Horn E. "Effects of glutamatergic-nicotinic interactions on behavioural and P300 responsivity during sustained attention." 50th Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon, **September 29- October 3, 2010.**

Milin, R. Substance Use Disorders (SUD) and Psychosis: Focus on Cannabis, Assessment and Treatment. Symposium: Current and Emerging Challenges in Addiction Psychiatry. **(2010).** Canadian Psychiatric Association, 60th Annual Conference, Toronto.

Milin, R. Ask the Expert: Cannabis Abuse in Adolescence. **(2010).** Canadian Academy of Child and Adolescent Psychiatry, 30th Annual Conference, Toronto.

Milin, R. The Association of Substance Use and Psychotic Disorders: Focus on Cannabis and Youth. **(2010).** National Anti-Drug Strategy (NADS) Speaker Series, Strategic Initiatives and Law Reform, Department of Justice Canada. Ottawa.

Murata, L., Antonello, C., Robertson, S., Silverman, M., Cotaras, C., Robertson, C. A Multidisciplinary, Solution-Focused Healthy Lifestyle Education Group for Persons with Mental Illness, 1st International Symposium on Nursing Intervention Research, **April 6-8, 2011**, Montreal.

Murphy, L., Fedoroff, J.P., Gray, J. "Impact of Circles of Support and Accountability on Members" American Academy of Psychiatry and the Law Tucson Arizona, **October 2010.**

Nicholls, T. N., Crocker, A. G., Seto, M. C., and Côté, G. (2011, April). Gender and process through Review Board dispositions: Socio-demographics, dispositions, & recommendations. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Recent Publications & Presentations

Page, G., Di Giulio, G., Francis, K., Davies, D., and Shlik, J. Cognitive-Behavioral Group Therapy for Comorbid Depression and Generalized Anxiety: A Pilot Study. Poster to be presented at the 72nd Annual Convention of the Canadian Psychological Association, **June 2011**, Toronto.

Ray, J. V., Kimonis, E. R., and Seto, M. C. (2011, March). Personality and behavior correlates of child pornography viewing in a community sample of pornography users. In M. C. Seto (Chair), *Child pornography offenders : Characteristics and risk of recidivism*. Symposium presented at the 4th International Congress of Psychology and the Law, Miami.

Ritchie, L. Recovery Group: Revisiting Group Facilitation by In-Patient Nurses. Paper to be presented at the National Conference for Mental Health Nursing, **October 2011**, Toronto.

Robinson, J., Chagigiorgis, H., Marshall, L.E. (2011, March). An examination of a treatment group for anger management problems in incarcerated mentally ill offenders. 7th Annual Pacific Forensic Psychiatric Conference, Vancouver, BC.

Seto, M. C., Jansman, E. M., Crocker, A. G., Nicholls, T. N., and Côté, G. (2011, April). International trends in demand for forensic mental health services. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

Shah D., Heenan A., Choueiry J., Clough E., Jaworska N., Fish D., Ilivitsky V., Knott V. "Electrophysiological effects of acute combination pharmacotherapy on executive control of attention in morning abstinent smokers using a modified Wisconsin Card Sorting task." 50th Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon, **September 29- October 3, 2010**.

Smith D., Grant B., Fisher D., Borracci J., Labelle A., Knott V. "Effects of nicotine on sensory gating and its sources in schizophrenia patients." 50th Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon, **September 29- October 3, 2010**.

Stewart, W., and Patterson, B. (2011, April). St. Lawrence Valley Correctional and Treatment Centre – Secure Treatment Centre. 7th Annual Pacific Forensic Psychiatry Conference, Vancouver, BC.

St-Pierre, I. and Holmes, D. (2010). Broadening the understanding of intra/inter professional aggression: A nursing managers' perspective. Second International Conference on Violence in the Health Sector, Netherlands.

Comments & Suggestions

The University of Ottawa IMHR welcomes your suggestions on improving our newsletter and making it more informative. To submit suggestions, please contact Dr. Martine Lafrance, Project Director, at 613-722-6521, ext. 6727, or by email at martine.lafrance@rohcg.on.ca.