



HÔPITAL DU SACRÉ-COEUR
DE MONTRÉAL

Centre de recherche

RAPPORT D'ACTIVITÉS

2004

2007



Le Centre de recherche de l'Hôpital du Sacré-Cœur de Montréal : un lieu de créativité et de transfert de connaissances.

L'un des événements marquants de l'année 2005, fût sans doute, le renouvellement de l'accréditation du Centre de recherche par le Fonds de la recherche en santé du Québec (FRSQ) pour un terme de quatre ans. Le Centre s'est vu attribuer une mention d'excellence par le FRSQ basée sur un plan de développement dont la synergie entre tous les axes du Centre de recherche est une valeur fondamentale.

La reconduction de mon mandat de directeur du Centre de recherche en novembre 2005 coïncide avec la formation d'une nouvelle équipe de gestionnaires avec le recrutement de madame Stéphanie Laporte pour le nouveau poste d'ajointe aux affaires scientifiques, complétant les fonctions d'ajointes aux affaires financières assurées par mesdames Diane Beauchamp et Mélissa Villeneuve. Ces développements s'imposent dans un contexte de croissance accélérée des activités de recherche, en particulier dans le cadre des nouveaux mandats de soins tertiaires de niveau académique attribués à notre établissement.

Au cours des trois dernières années, sept jeunes chercheurs se sont mérités une première bourse du FRSQ (junior 1), et neuf autres ont obtenu un renouvellement de leur bourse pour quatre ans, soit au niveau junior 2 ou senior. De plus, plusieurs chercheurs, jeunes et seniors, se sont illustrés aux concours des subventions des Instituts de recherche en santé du Canada (IRSC), du Conseil de recherche en sciences naturelles en en génie (CRSNG) ainsi qu'à ceux de la Fondation des maladies du cœur du Québec, de la Fondation canadienne du rein et de la Société d'arthrite.

Ces trois dernières années, un effort particulier a été apporté au développement de l'axe de recherche en traumatologie-orthopédie, considéré jusqu'à présent comme un axe "en émergence". Selon le concept multidisciplinaire présenté, on reconnaît maintenant à cet axe plusieurs secteurs : a) neurotraumatisme, douleur et stress post-traumatique, b) traumatologie-orthopédie, c) soins intensifs, d) médecine d'urgence, et e) épidémiologie. Chaque secteur s'appuie sur des forces cliniques ainsi que sur des expertises de pointe en recherche, et comprend un plan de recrutement de jeunes chercheurs. En août 2006, le ministre de la Santé et des Services sociaux annonçait la création d'un centre d'excellence en orthopédie à l'Hôpital du Sacré-Cœur de Montréal, pour lequel des développements importants en recherche sont prévus. En octobre 2006, le Centre a inauguré le *Laboratoire de biomécanique et imagerie en orthopédie et traumatologie* établi par le Professeur Yvan Petit, Ph.D. (École de technologie supérieure) avec l'appui d'une subvention FCI-Relève.

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Merci à toutes les personnes qui ont contribué à la réalisation de ce rapport d'activités

Conception : Danielle Binette
Stéphanie Laporte

Coordination : Stéphanie Laporte

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Sous la thématique *Diagnostic, physiopathologie et traitement des troubles du sommeil*, les chercheurs du Centre d'étude du sommeil se sont classés au premier rang au dernier concours pour le renouvellement de leur subvention de groupe des Instituts de Recherche en Santé du Canada (IRSC). Le terme de cinq ans (2005-2010) approuvé par les IRSC confirme qu'en plus d'avoir maintenu une productivité scientifique de haut niveau, le groupe a su renouveler sa programmation et la maintenir à la fine pointe de la discipline au niveau mondial.

Le groupe de recherche en santé cardiovasculaire poursuit avec succès le développement de ses deux thèmes principaux, les syndromes *coronariens aigus* et la *neurocardiologie*. Grâce à un don de la Succession J.A.-DeSève et de la Fondation de l'Hôpital du Sacré-Cœur de Montréal, un laboratoire expérimental de chirurgie minimalement invasive est en cours de développement pour l'étude de cibles nerveuses pour le traitement des arythmies cardiaques.

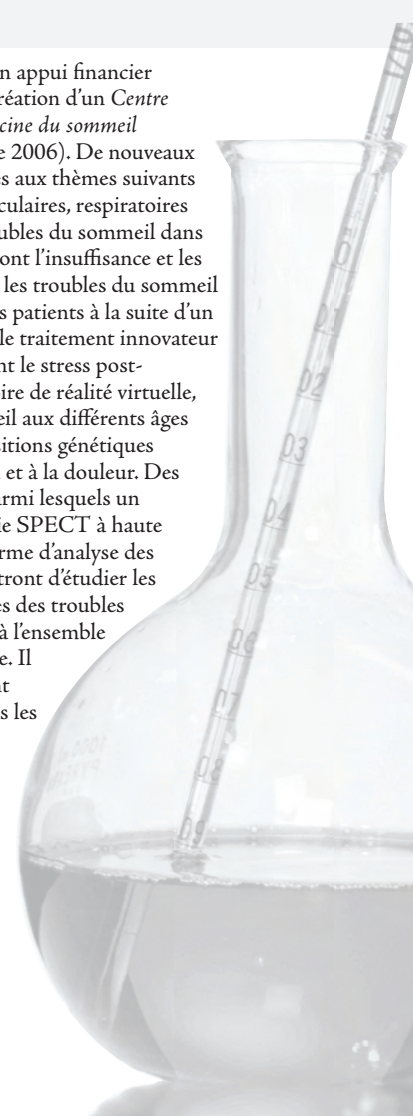
Aux nombreuses subventions en cours et à la subvention de Centre des IRSC *Asthma in the Workplace* octroyée en 2003, s'est ajoutée en 2006 une prestigieuse subvention des National Institutes of Occupational Health des États-Unis (*Towards a better understanding of work-aggravated asthma*). Cette reconnaissance internationale illustre bien le succès de ce regroupement de cliniciens chercheurs en pneumologie et de chercheurs Ph.D. dans différents domaines allant de l'épidémiologie à la biologie moléculaire.

Le Consortium de recherche en néphrologie de l'Université de Montréal créé par la Faculté de médecine de l'Université de Montréal en 2007 regroupe, dans une démarche commune de recherche et de recrutement, les forces de l'Hôpital du Sacré-Cœur de Montréal avec celles de l'Hôpital Maisonneuve-Rosemont et du Centre hospitalier universitaire de Montréal (CHUM).

Le Centre de recherche a obtenu de la Fondation canadienne de l'innovation et du ministère de la Santé

et des Services sociaux un appui financier de 5 millions \$ pour la création d'un Centre d'études avancées en médecine du sommeil (annoncé le 28 novembre 2006). De nouveaux laboratoires seront dédiés aux thèmes suivants : 1) les aspects cardiovasculaires, respiratoires et autonomiques des troubles du sommeil dans différentes pathologies dont l'insuffisance et les arythmies cardiaques, 2) les troubles du sommeil et de la vigilance chez des patients à la suite d'un traumatisme crânien, 3) le traitement innovateur des troubles anxieux, dont le stress post-traumatique, en laboratoire de réalité virtuelle, 4) les troubles du sommeil aux différents âges de la vie, 5) les prédispositions génétiques aux troubles du sommeil et à la douleur. Des équipements majeurs, parmi lesquels un système de neuroimagerie SPECT à haute résolution et une plateforme d'analyse des neurohormones, permettront d'étudier les substrats neurochimiques des troubles du sommeil et serviront à l'ensemble des chercheurs du Centre. Il s'agit d'un développement passionnant à suivre dans les prochaines années.

René Cardinal



Axes de recherche

Génétique et épidémiologie des maladies rénales
Neurosciences - Santé mentale
Santé cardiovasculaire
Santé respiratoire
Traumatologie - Orthopédie

Responsables

François Madore
Jacques Montplaisir
Teresa Kus
Catherine Lemière
Gilles Lavigne
Co-responsable : Julio Fernandes

COMITÉ D'ÉTHIQUE

Me André Morel, président et représentant de l'Université de Montréal (2005)

Me Chantal Roy, présidente et représentante de l'Université de Montréal (2006)

M. David Williamson, scientifique non médecin, secrétaire (2005), vice-président (2006)

Dr Martin Albert, scientifique médecin (2005)

M. Guy Beauregard, personne spécialisée en éthique

Dr Patrick Bellemare, scientifique médecin

Dr Marcel Boulanger, membre non affilié représentant la collectivité

Mme Henriette Bourassa, membre non affilié représentant la collectivité

Dr Jadranka Spahija, scientifique non médecin

Madame Nathalie Demers, scientifique non médecin

Dr Razvan Diaconescu, scientifique médecin (2006)

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Mme Marie-France Thibaudeau, scientifique non médecin

Membres substitués (2006)

Dr Martin Albert, scientifique médecin

Me Marie Boivin, juriste

Dr Marie Dumont, scientifique non-médecin

Mme Paule Savignac, personne spécialisée en éthique

Dr Arthur Pagé, membre non affilié représentant la collectivité

Mme Françoise Charland Mérel, représentante du public pour les projets de l'HSCM

Mme Monique Séguin, représentante du public

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Dr François Madore, co-président (2005), président (2006)

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Dr Andrée Daigneault, psychiatre (2006)

M. Guy Beauregard, invité

Dr Marie-France Beauchesne, pharmacienne

Dr Donald Bouthillier, psychologue

Dr Jean Leblanc, psychiatre

Dr Karim Maghni, chercheur

Dr Denyse Gautrin, chercheuse

Dr Anne-Julie Frenette, pharmacienne
1 représentant du service d'hématologie, en alternance à chaque réunion

COMITÉ DE LA RECHERCHE

Dr René Cardinal, directeur de la recherche, président

Dr Vincent Castellucci, adjoint au Vice-doyen à la recherche, Faculté de médecine

M. Daniel Castonguay, directeur des soins infirmiers

Dr Jean-Paul Ferron, directeur de l'enseignement

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M. Michel Larivière, directeur général

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Dr Jean-Luc Malo, chercheur

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COMITÉ DE GESTION

Dr René Cardinal, directeur du Centre de recherche, président

Dr François Madore, directeur adjoint, recherche clinique et responsable Axe génétique et épidémiologie des maladies rénales

Dr A. Robert LeBlanc, directeur adjoint, recherche et développement

Mme Stéphanie Laporte, adjointe administrative aux affaires scientifiques

Mme Diane Abastado, attachée de direction (2004-2005)

Mme Diane Beauchamp, adjointe administrative aux affaires financières

Dr Teresa Kuš, responsable Axe santé cardiovasculaire

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Dr Jacques Montplaisir, responsable Axe neurosciences/santé mentale

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Dr Julio Fernandes, co-responsable Axe traumatologie/orthopédie

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Mme Stéphanie Falco, représentante des étudiants (2006)

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M. Éric Beaumont, chercheur utilisant des animaux

M. Yvan Girardin, représentant de la collectivité

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M. Madjou Thierno Bah, étudiant

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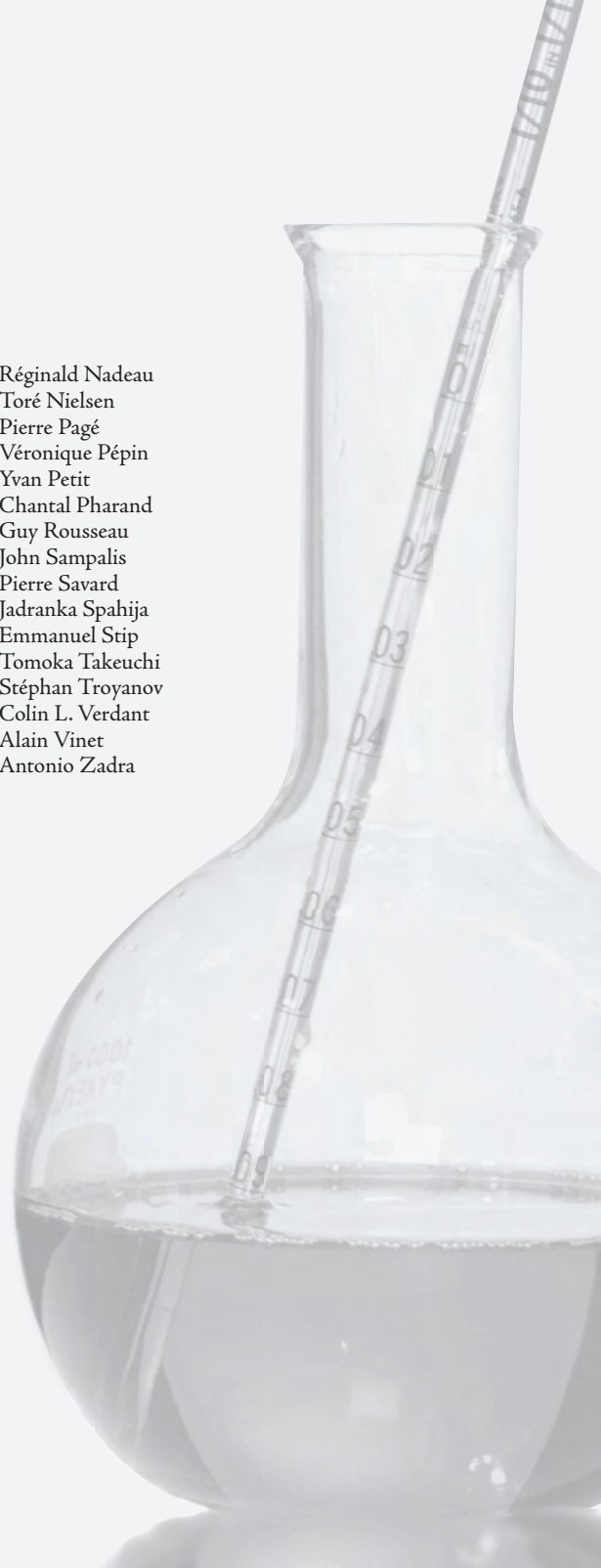
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 Elham Emani
 Mark Potse

DIPLÔMES OBTENUS

M.Sc.

2004-2005
 Madjou Thierno Bah
 Simon Corbeil-Létourneau
 Nicolas Debrand
 Louisa Deutsch
 Mírcea Dragos
 Pascal Falla-Vollita
 Frédéric Girard
 Cécile Guyon
 Clemente Lacerda
 Sania Mansouri
 Jocelyn Morettini
 Nadia Ouaked
 Georgeta Sas
 Julie Simard

2005-2006

Riad Benghida
 Brian D'Anjou
 Stéphanie Falcao
 Isabelle Hamel-Hébert
 Anna Kawinska
 Barbara Morquette
 Romana Popovichi
 Maud Richard
 Frédéric Vallais
 Mélanie Vendette
 Mona-Rita Yacoub

2006-2007

Marta Bolanos
 Philippe Stenstrom
 Marie Lordkipanidzé

Ph.D.

2004-2005
 Virginie Bernier
 Jean-François Gagnon
 Annik K.-Laflamme
 2005-2006
 Dominic Beaulieu-Prévost
 Mathieu Boucher
 Caroline Drapeau
 Nelly Huynh
 Nicholas Pesant
 2006-2007
 Marilyn De Chantal
 Valérie Mongrain

Post-doctorat/Fellows

2004-2005
 Paola Lanfranchi
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 2006-2007
 Stéphanie Mazza

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 Carole Trudeau
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DÉPART À LA RETRAITE

Diane Abastado

ORGANISMES AVEC COMITÉ DE PAIRS

- Association pulmonaire du Canada
- Conseil de recherches en sciences humaines du Canada (CRSH)
- Conseil de recherche en sciences naturelles et en génie (CRSNG)
- Conseil québécois de la recherche sociale (CQRS)
- Fondation canadienne de la recherche sur les services de santé (FCRSS)
- Fondation canadienne du rein (FCR)
- Fondation canadienne pour l'innovation (FCI)
- Fondation des maladies du cœur du Canada (FMCC)
- Fondation des maladies du cœur du Québec (FMCQ)
- Fonds de la recherche en santé du Québec (FRSQ)
- Fonds québécois de la recherche sur la nature et les technologies
- Fonds québécois de la recherche sur la société et la culture
- Institut national du cancer du Canada (INCC)
- Instituts de recherche en santé du Canada (IRSC)
- Institut de recherche Robert-Sauvé en santé et sécurité du travail (IRSST)
- Nano Québec
- National Institutes of Health (NIH)
 - National Heart, Lung and Blood Institute (NHLBI)
 - National Institute for Occupational Safety and Health (NIOSH)

- Régie régionale de la santé et des Services sociaux (RRSSS)
- Secrétariat des chaires de recherche du Canada
- Société Alzheimer du Canada
- Société d'arthrite
- Société québécoise d'hypertension artérielle
- Valorisation-Recherche Québec (VRQ)

FONDACTIONS PRIVÉES

- Fondation de l'Hôpital du Sacré-Cœur de Montréal
- Fondation Gemma Moisan
- Fondation Jacques et Michel Auger
- Fondation J.A. DeSève
- Richard and Edith Strauss Canada Foundation

CHAIRES PHILANTHROPIQUES

- Chaire Eli Lilly du Canada de recherche en schizophrénie
- Chaire en orthopédie
- Chaire AstraZeneca en santé respiratoire
- Chaire psychopharmaceutique Pfizer, Bristol-Myers Squibb, Smith-Kline-Beecham, Eli Lilly

AUTRES ORGANISMES

- Fondation canadienne pour les soins intensifs
- Fondation de l'ordre des dentistes du Québec
- Institut Nazareth et Louis-Braille

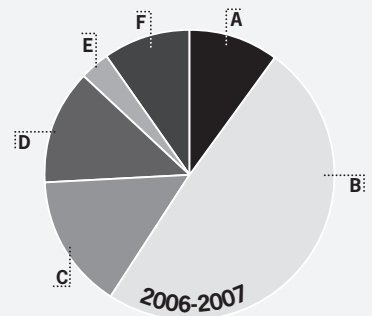
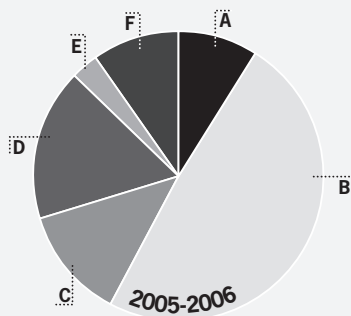
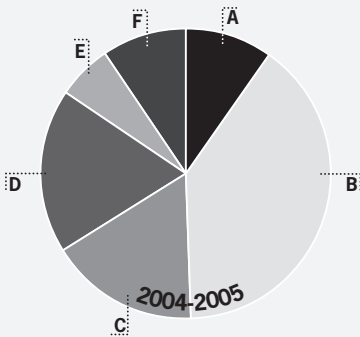
BOURSES OBTENUES PAR LES CHERCHEURS DEPUIS 2004

- Mohamed Benderdour (2004 et 2006)
- Simon Bacon (2006)
- Lucie Blais (2006)
- Julie Carrier (2004)
- Manon Labrecque (2004)
- Paola Lanfranchi (2005)
- Patrick Lavigne (2006)
- Kim Lavoie (2006)
- Hélène Lefebvre (2004)
- François Madore (2004)
- Karim Maghni (FRSQ 2004)
- Guy Rousseau (FRSQ 2005)
- Jadranka Spahija (FRSQ 2005)
- Stéphan Troyanov (FRSQ 2006)
- Colin Lagrenade-Verdant (FRSQ 2006)
- Antonio Zadra (FRSQ 2006)

CHERCHEURS ET ÉTUDIANTS

	2004 2005	2005 2006	2006 2007
Chercheurs autonomes	40	43	48
Chercheurs associés	30	40	49
Stagiaires post-doctoraux	6	5	6
Étudiants au doctorat	40	53	50
Étudiants à la maîtrise	45	43	37
Diplômes octroyés (Ph.D.)	2	5	2
Diplômes octroyés (M.Sc.)	9	10	3

ACTIVITÉS FINANCIÈRES



**2004
2005**

**2005
2006**

**2006
2007**

725 000 \$
2 909 822 \$
1 231 694 \$
1 339 596 \$
453 275 \$

191 950 \$
271 170 \$
220 000 \$

706 875 \$
3 755 510 \$
965 350 \$
1 310 534 \$
234 998 \$

259 091 \$
265 802 \$
220 000 \$

706 875 \$
3 468 991 \$
1 051 647 \$
917 248 \$
233 258 \$

211 215 \$
236 295 \$
220 000 \$

Subventions du FRSQ (Centre) (A)
Subventions d'organismes avec comité de pairs¹ (B)
Bourses d'organismes avec comité de pairs¹ (C)
Contrats de recherche avec compagnies privées² (D)
FCL, FEI et VRQ² (E)
Fondation de l'Hôpital du Sacré-Coeur de Montréal² (F)
• Dons au Centre de recherche
• Transferts aux chercheurs
• Participation aux chaires philanthropiques

7 342 507 \$

7 538 160 \$

7 045 532 \$

TOTAL

¹Selon le registre central déposé au FRSQ en novembre de chaque année

²Sur base d'encaissement



ARTICLES
DANS DES
PÉRIODIQUES
AVEC COMITÉ
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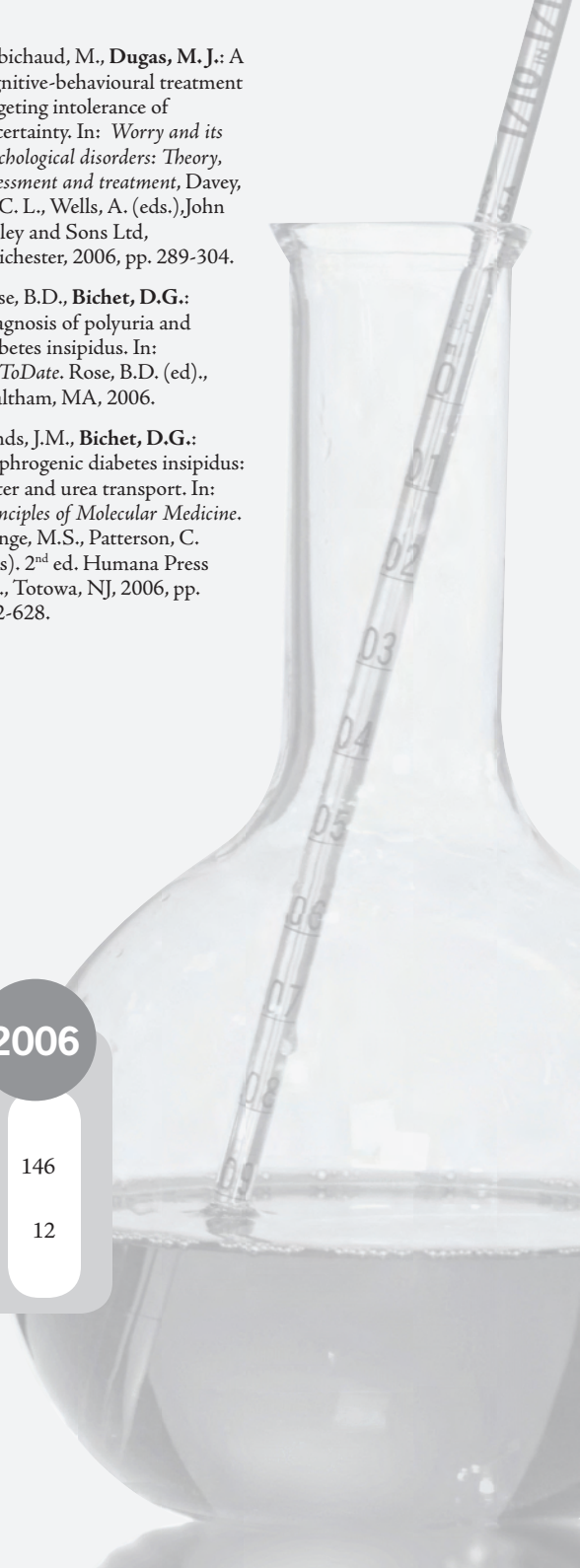
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5400, boul. Gouin Ouest,
Montréal (Québec) H4J 1C5

Tél. : 514.338.2222
Télec. : 514.338.2694

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