

October 2007

## **CURRICULUM VITAE**

### **GENERAL INFORMATION**

**NAME:** Jacques P. TREMBLAY  
**ADDRESS:** 161 des Bois Francs, Stoneham,  
Prov. Quebec, Canada, G0A4P0  
**DATE OF BIRTH:** July 24th 1946  
**PLACE OF BIRTH:** Montreal, Canada  
**CITIZENSHIP:** Canadian

### **STUDIES**

1970: B.Sc. Biochemistry, University of McGill, Montreal  
1974: Ph.D. Neurosciences, University of California at San Diego  
1975-1976: Post-doctorates studies, University of Laval

### **WORK EXPERIENCES**

1976-1981: Assistant professor, dept. of anatomy, University of Laval  
1981-1985: Professor, dept. of anatomy, University of Laval  
1985- Titular professor titulaire, dept. of anatomy, University of Laval  
1987-1997: Director, dept. of anatomy, University of Laval  
1997- Titular Professor, dept. of anatomy-physiology, University of Laval

### **RESEARCH EXPERIENCE**

1970-1974: Graded student in Dr Barondes laboratory, UCSD  
- Electrophysiology technic  
1975-1976: Postdoctorate student in Dr Louis Poirier laboratory,  
University of Laval

- postdoctorate research in neurophysiology and neuropharmacology

- 1976: Laboratory of Neurobiology, University of Laval  
 - Electrophysiology studies, morphology and immunochemistry of synaptic transmission.
- 1987: Laboratory of Neurobiology, University of Laval  
 - Transplantation of myoblasts and gene therapy of possible treatments for muscular dystrophy of Duchenne.
- 1998: Unit of Genetics of Hospitable Center of Laval University.  
 - Transplantation of myoblasts and gene therapy of possible treatments for muscular dystrophy of Duchenne.

#### **SCHOLARSHIP AND AWARDS:**

- 1967-1970: Fellowship of Centenaire de Dominion Textile
- 1970-1974: Bursary for trainee of Medical Research Council of Canada
- 1975-1976: "Fellowship" of Medical Research Council of Canada
- 1976-1982: Bursary-searcher of Council of Research in Health of Quebec
- 2004: Best researcher in Québec province award presented by Muscular Dystrophy Canada
- 2005: Best researcher in Canada award presented by Muscular Dystrophy Canada
- 2005: Sirius Award for Research presented by the CHUQ
- 2006: Henry Friesen Award presented by the Royal College of Physicians and Surgeons of Canada and the Canadian Society for Clinical Investigation

#### **GRANTS :**

FRSQ (Institution funds)	1976-1977	19,000.
MRC (MA-5977)	1977-1979	39,570.
MRC (MA-5977)	1979-1980	30,500.
MRC (MA-5977)	1980-1981	29,700.
MRC (MT-5977)	1981-1982	40,660.
MRC (MT-5977)	1982-1983	34,240.
MRC (MT-5977)	1983-1984	34,240.
Muscular Dystrophy Association of Canada	1983-1984	31,000.

Muscular Dystrophy Association of Canada	1984-1985	27,000.
MRC (TT5977)	1984-1985	60,288.
MRC (TT5977)	1985-1986	39,725.
MRC (TT5977)	1986-1987	39,725.
MRC (TT5977) extension	1987-1988	9,931.
MRC (MT5977)	1987-1988	41,512.
MRC (MT5977)	1988-1989	55,350.
MRC (ME10150)	1988-1989	62,047.
Foundation of Council of Paediatrics Clubs	1988-1989	25,000.
MRC (MT5977)	1989-1990	55,350.
MRC (MT5977) extension	1990-1991	13,838.
Muscular Dystrophy Association of Canada	1989-1990	41,000.
Muscular Dystrophy Association of Canada	1990-1991	43,000.
MRC (MT-10827)	1990-1991	60,033.
MRC (MT-5977)	1990-1991	63,161.
MRC (MT-10827)	1991-1992	80,044.
Muscular Dystrophy Association of Canada	1991-1992	70,000.
MRC (MT-5977)	1991-1992	63,161.
MRC (MT-10827)	1992-1993	80,044.
MRC (MT-5977)	1992-1993	63,161.
Muscular Dystrophy Association of Canada	1992-1993	71,000.
Association Française contre les Myopathies (AFM)	1992-1993	56,088.
MRC (MT-10827)	1993-1994	80,044.
Association Française contre les Myopathies (AFM)	1993-1994	30,000.
Muscular Dystrophy Association of Canada	1993-1995	142,000.
Muscular Dystrophy Association of Canada	1994-1995	76,457.
Muscular Dystrophy Association of Canada	1995-1996	19,500.
Hydro-Québec FRSQ	1994-1999	205,000.
Muscular Dystrophy Ass. of Canada	1995-1996	32,000.
Association Française contre les Myopathies (AFM)	1995-1996	71,428.
Canadian Society of Haemophilia	1995-1997	90,000.
Muscular Dystrophy Foundation	1995-1996	20,000.
Association Française contre les Myopathies (AFM)	1995-1996	275,000.
Muscular Dystrophy Association (USA)	1996-1998	140,000.
Association Française contre les Myopathies (AFM)	1996-1997	412,000.
<b>Muscular Dystrophy Association of Canada</b>		
Role of inflammation in myoblast transplantation of mice, 1996/1998		\$45 000.
<b>Association Française contre les Myopathies (AFM)</b>		
Transplantation of myoblasts : a form of gene therapy 1997/2000		\$600 000.
<b>Muscular Dystrophy Association of Canada</b>		
Control of inflammation to prevent death of transplanted myoblasts. 1997/1999		\$55 000.
<b>Association Française contre les Myopathies (AFM)</b>		
Transplantation of genetically modified myoblasts. 1998/1999		\$250 000.
<b>Muscular Dystrophy of America</b>		
Improving myoblast transplantation 01/1998 - 12/2000		\$238 000.

<b>Association Française contre les Myopathies (AFM)</b> Transplantation of genetically modified myoblasts. 1999/2000	\$250 000.
<b>Association Française contre les Myopathies (AFM)</b> Auto-transplantation of genetically modified cells 02/2000 - 02/2001	\$200 000.
<b>Canadian Association of Hemophilia</b> Secretion of factors VIII and IX following myoblast transplantation in monkeys. 01/2000 - 12/2001	\$100 000.
<b>Canadian Institute of Health Research (MDAC + ALS)</b> Autotransplantation of genetically modified myoblasts and muscle derived stem cells 10/2000 - 09/2003	\$214 398.
<b>Scientific Institute E. Medea</b> Individuation and use of muscle staminal cells for therapy of muscular dystrophies. 06/2001 - 06/2003	\$28 000.
<b>Association Française contre les Myopathies (AFM)</b> Intramuscular transplantation of genetically corrected myoblast and muscle derived stem cells of SJL mice and of patients with LGMBD2B. 10/2001 10/2002	\$350 000.
<b>Association Française contre les Myopathies (AFM)</b> Development of immunological tolerance to myoblast transplantation 09/2002 - 09/2003	\$70 000.
<b>Association Française contre les Myopathies (AFM)</b> Facteurs impliqués dans la survie de cellules myogéniques après leur implantation intramusculaire. 08/2002 - 08/2003	\$45 000.
<b>Canadian Institute of Health Research (MDAC + ALS)</b> Treatment of Duchenne Muscular Dystrophy : Correction of mutated dystrophin mRNA with ribozymes. 10/2001 - 09/2004	\$247 350.
<b>Stem Cells Network</b> Therapeutic Approaches with Muscle Stem Cells 10/2001 au 03/2005	\$175 000.
<b>Scientific Institute E. Medea</b> Considering the potential of soma staminal cells as a new therapeutical approach to neurodegenerative pathologies. 08/2002 au 08/2004	\$32 000.00
<b>Association Française contre les Myopathies</b> Approach to improve myoblast migration within the host muscle after transplantation. 10/2002 - 10/2003	\$45 000.00
<b>Advance Research Myopathy</b> Transplantation of genetically modified myoblasts from patients with IBM2. 02/2003 - 02/2004	\$108 000.00
<b>Canadian Institute of Health Research (MDAC + ALS)</b>	

Autotransplantation of Genetically modified myoblasts and muscle derived stem cells. 6/2003 – 5/2006	\$ 336,000.00
<b>ROTRF (Roche inc. Foundation)</b> Development of central immunological tolerance towards myoblasts transplantation. 01/2004 – 30/04/2005	\$100,000.00
<b>MDA</b> Improvement of cell transplantation by Heat Shock Protein induction. 01/2004 au 12/2004	\$75 000 US
<b>Association Française contre les Myopathies (AFM)</b> Improvement of muscle regeneration following myoblast transplantation by blocking myostatin 02/2004 au 01/2007	\$75 000.00
<b>Association Française contre les Myopathies (AFM)</b> Development of a new protocol to induce immunological tolerance to allogeneic myoblast transplantation. 07/2004 à 06/2006	\$45 000.00
<b>Advance Research Myopathy</b> Preparation of a clinical trial of autologous transplantation of genetically modified myoblasts to IBM2. 01/2005 - 12/2006	\$220 000.00
<b>NIH</b> Immune tolerance to transplanted myoblasts. 1R01AR053242-01 01/06/2006 au 30/05/2011 co-PI	\$1,625,000.00
<b>CIHR/MDC/ALS</b> Development of immunological tolerance in monkeys for therapies for muscular dystrophies based on cell transplantation 1/10/2006 au 30/9/2009	\$386 596.00
<b>AFM (global research grant)</b> 1/1/2007 au 31/12/2008	\$1,129,000.00
<b>CIHR/MDC/ALS</b> Improving MPC transplantation by increasing IGF-1 or MGF stimulation 01/10/2007 au 30/09/2010	\$378 936.00

## Research Contracts

<b>Association Française contre les Myopathies (AFM) - CELLGENE inc.</b> Phase I clinical trial of myoblast transplantation to Duchenne Muscular Dystrophy patients. 01/2002 - 12/2003	\$750 000.00
<b>Association Française contre les Myopathies (AFM) - CELLGENE</b> Protocol to induce immunological tolerance to allogeneic myoblast transplantation 07/2005 – 07/2007	\$85 000.00
<b>Association Française contre les Myopathies (AFM) - CELLGENE</b> Preparation of phase b clinical study of myoblast transplantation for Duchenne patients. 07/2005 – 03-2006	\$588 000.00
<b>Association Française contre les Myopathies (AFM) - CELLGENE</b> Phase b clinical study of myoblast transplantation for Duchenne patients.	

04/2006 – 03/2007

## TEACHING

### First degree

I participated or was in charge of these classes :

BIO-15446	Human Biology IV-A (in charge)
HTL-15781	Generale histology
MED-15685	Nervous system
NRB-18362	Neurotransmettors et receptors

### **Stage d'initiation à la recherche (Medicine faculty)**

My laboratory welcomed 6 trainees

- Gilles Plourde (Laval University)
- Paul Lépine (Laval University)
- Jean Morneau (Laval University)
- Gordon Hutchichon (Laval University)
- Céline Belhumeur (Laval University)
- Élyse Martel (Laval University)

### **Stage d'initiation à la recherche (Sciences faculty)**

- Denis Durand (computer business)
- Alain Mignault (computer business)
- Jean Morneau
- Gilles Plourde
- Rachelle Sasseville
- Céline Belhumeur
- Richard Robitaille
- Annie Normandin
- Hélène Poirier
- Sophie Roy
- Claude Labrecque
- Louis-Philippe Fortier
- Anick Lassonde
- Sophie Breton
- Élyse Martel
- Geneviève Tremblay
- Steve Verreault
- Geneviève Lahaie
- Yann Leduff
- Nikolas Bernier
- Sarah Paris-Robidas

## 2<sup>nd</sup> and 3<sup>rd</sup> degrees

I participated or was in charge of these classes :

- NRB-63044 Electrophysiology of neurons (in charge)
- NRB-63043 Neurotransmettors
- NRB-63042 Introduction of neurochemistry (in charge)
- NRB-60580 Seminar of Neurobiology I
- NRB-60581 Seminar of Neurobiology II (in charge)
- NRB-63460 Review of literature (in charge)
- MDX-63435 Advanced cell and molecular biology II

## **Direction of master degree**

- 1) Éric Philippe (9/1978 à 9/1980)  
Transmission synaptique dans l'Aplysie
- 2) Robert Laurie (9/1980 à 9/1982)  
Transmission synaptique dans le ganglion ciliaire de poule
- 3) Céline Belhumeur (9/1982 à 9/1984)  
Études morphologiques des synapses du ganglion ciliaire
- 4) Rachelle Sasseville (9/1982 à 9/1984)  
Études morphologiques à la jonction neuromusculaire de grenouille
- 5) Claude Gravel (9/1982 à 9/1984)  
Études morphologique des cellules de Purkinge avec mAbs
- 6) Richard Robitaille (9/1983 à 9/1985)  
Transmission synaptique à la jonction neuromusculaire de grenouille
- 7) Louis-Philippe Fortier (9/1987 à 9/1989)  
Rôle des canaux Ca dans la transmission synaptique
- 8) Claude Labrecque (9/1988 à 9/1990)  
Greffe de myoblastes à des souris mdx
- 9) Johnny Huard (9/1989 à 9/1991)  
Greffe de myoblastes à des patients DMD
- 10) Guy Dansereau (9/1989 à 9/1991)  
Réaction humorale suite à la greffe de myoblastes
- 11) Nathalie Albert (9/1990 à 9/1992)  
Évaluation de différentes méthodes de transfection des myoblastes

- 1/2) Benoît Guérette (9/1992 à 9/1994)  
Évidence de rejet cellulaire et humoral suite à la greffe de myoblastes
- 13) Isabelle Asselin (9/1992 à 9/1994)  
Détection de l'ARNm normal de la dystrophine
- 14) Annie Boulanger (9/1994 à 9/1997)  
Rôle des antigènes mineurs dans la greffe de myoblastes
- 15) Dominique Mayrand (9/1994 à 9/1998)  
Introduction du gene des facteurs VIII et IX dans les myoblastes
- 16) Florence Célestin (9/1994 à 9/1996)  
Évidences de réactions inflammatoires suite à la greffe de myoblastes
- 17) Christine Huard (9/1996 à 10/1998)  
Transformer les fibroblasts en myoblasts dermiques génétiquement modifiés dans un muscle de souris dystrophique
- 18) Annie Dicaire (9/1996 à 10/1998)  
Sécrétion du facteur IX suite à la transplantation de myoblastes modifiés génétiquement
- 19) Guy Morel (9/1997 à 10/1998)  
Mort des myoblastes suite à la réaction inflammatoire
- 20) Nicolas Caron (9/1997 à 12/1998)  
Sécrétion de métalloprotéinases par les myoblastes
- 21) Geoffrey Camirand (09/1997 à 04/1999)  
Rôle des glycoprotéines dans la mort des myoblastes transplantés
- 22) Mélanie Nadeau (06/1998 à 09/1999)  
Sécrétion du facteur IX chez le singe avec des myoblastes modifiés génétiquement
- 23) Pascale Boudreault (06/1998 à 09/1999)  
La production de myoblastes dans un bioréacteur
- 24) Valérie Bernard (06/1998 à 09/1999)  
Immortalization réversible des myoblastes avec un antigène T
- 25) Francisco Espinosa (01/1998 à 12/1999)  
Production de thyrosine hydroxylase par des myoblastes modifiés génétiquement



- 26) Xavier Allaume (09/1999 à 12/2001)  
Role of inflammation in myoblast death
- 27) Jean-Sébastien Cadix (09/1999 à 12/2001)  
Introduction du gene de la dystrophine dans les myoblastes des patients de Duchenne
- 29) Mathieu Bujold (04/2000 à 09/2002)  
Transduction de la protéine de fusion TAT/Téломérase dans des myoblastes
- 30) Simon Quenneville (04/2000 à 09/2002)  
Production d'un vecteur adeno/AAV pour introduire le gène de la dystrophine.
- 31) Marc-Antoine Roy (09/2000 à 12/2002)  
Mutation des sites d'épissage dans le gène de la micro-dystrophine.
- 32) Geneviève Paré (09/2000 à 12/2001)  
Introduction du gène de la dysferlin dans des myoblastes.
- 33) Jean-François Lafrenière (09/2000 à 09/2002)  
Augmentation de la migration des myoblastes par les métalloprotéinases.
- 34) Philippe Mills (06/2001 à 12/2002)  
Rôle de l'urokinase plasminogen activateur dans la migration des myoblastes.
- 35) Manaf Bouchentouf (01/2002 à 09/2003)  
Diminution de la mort des myoblastes transplantés in vivo à l'aide des 'Heat Shock proteins '.
- 36) Basma Fattouma Benabdallah (01/2002 à 09/2003)  
Blocage de la myostatine avec le FLRG pour produire une hypertrophie musculaire chez les souris dystrophiques.
- 37) Jean Beaulieu (05/2003 à 12/2003)  
Transplantation de myoblastes modifiés génétiquement pour corriger la myopathie héréditaire à corps d'inclusion (HIBM)
- 38) Joël Larouche (09/2003 à 2006)  
Co-direction avec Dr. Alain Garnier (Génie Chimique) Prolifération des cellules souches isolées du muscle des singes.
- 39) Marie-Ève Ducharme (09/2002 à 06/2004)  
Transformation de cellules souches embryonniques en cellules hématopoïétiques et en myoblastes.
- 40) Evelyne Lapointe (5/2004 à 2006)  
Production de myoblastes et de cellules souches hématopoïétique à partir des

cellules souches embryonnaires.

- 41) Victor Parent (5/2004 à 2007)  
Mise au point d'un milieu de culture pour les myoblastes humains sans sérum.
- 42) Christophe Pichavant (12/2004 à 4/2007)  
Amélioration du modèle murin de la dystrophie musculaire de Duchenne.
- 43) Saloua Tagmouti (01/2005 à 2007)  
Transplantation de myoblastes dans les souris alpha sarco-glycans K.O.
- 44) Mourad Benguillil (09/2005 à 12/2006)  
Transplantation de myoblastes à des chiens dystrophiques.
- 45) Jean-Christophe Dominique (09/2006 à ...)  
Combinaison de l'électroporation avec la greffe de myoblastes.
- 46) Annick Michaud (2006 à ...)  
Infection des myoblastes avec le récepteur dominant négatif de la myostatine.
- 47) Martin Létourneau (2006 à ...)
- 48) Nicolas Huot (05/2007 à ....)  
Transformation de cellules souches embryonnaires humaines en myoblastes.
- 49) Tasnim Chakrouk (05/2007 à...)  
Electroporation de gènes pour augmenter le succès des greffes de myoblastes.
- 50) Anissa Cheick (05/2007 à...)  
Préconditionnement avec diazoxine pour réduire l'anoxie des myoblastes transplantés.
- 51) Marie-Anne Foret (05/2007 à...)  
Réduction de l'expression du récepteur RAGE avec des siRNA.
- 52) Alpha Haidara (2007 à ...)

### **Direction of doctorate degree**

- 1) Éric Philippe (9/1982 à 9/1984)  
Transmission synaptique dans le ganglion ciliaire de poulet
- 2) Richard Robitaille (9/1983 à 9/1985)  
Transmission synaptique a la jonction neuromusculaire de grenouille
- 3) Claude Labrecque (9/1991 à 9/1993)

Transplantation de myoblastes dans la souris mdx

- 4) Johnny Huard (9/1991 à 9/1993)  
Transplantation de myoblastes chez le patient DMD
- 5) Benoît Guérette (9/1994 à 9/1997)  
Réponse immune suite a la transplantation de myoblastes
- 6) Pierre Alain Moisset (9/1995 à 9/2000)  
Transfection du gene de la dystrophine dans des myoblastes
- 7) Nicolas Caron (9/1999 à 03/2004)  
Mécanisme de pénétrations cellulaires des protéines couplées à un peptide Tat.
- 8) Geoffrey Camirand (9/1999 à 03/2004)  
Induction de tolérance immunologique à la transplantation de myoblastes.
- 9) Simon Quenneville (09/2003 à 2007)  
Production de neurones à partir de cellules souches isolées du muscle.
- 11) Lionel Stephan (09/2001 à ...)  
Développement de tolérance immunologique envers la greffe de myoblastes à l'aide de greffe de moelle osseuse.
- 12) François Drouin (09/2002 à 2006) (co-direction Dr. Alain Garnier en Génie Chimique)  
Caractérisation et prolifération des cellules souches dérivées du muscle de souris.
- 13) Jean-Francois Lafrenière (09/2002 à ...)  
Augmentation de la migration des myoblastes par les métalloprotéinases.
- 14) Philippes Mills (09/2003 à 2007)  
Augmentation de la migration des myoblastes avec le MGF.
- 15) Manaf Bouchentouf (09/2003 à 2007)  
Diminution de la mort des myoblastes transplantés in vivo à l'aide des 'Heat Shock proteins '.
- 16) Basma Fattouma Benabdallah (09/2003 à ...)  
Augmentation du succès de greffes des myoblastes en bloquant la myostatine.
- 17) Christophe Pichavant (2007 à ...)  
Thérapie génique dans le cadre de la maladie Duchenne.
- 18) Victor Parent (5/2004 à 2007) Co-direction avec Génie chimique  
Mise au point d'un milieu de culture pour les myoblastes humains sans sérum.

- 19) Yann Lamarre (05/2007 à...)  
Réduction de l'inflammation pour réduire la mort des myoblastes transplantés.  
(entre autre avec adéno XIAP)
- 20) Raouia Fackfack (05/2007 à...)  
Greffe de myoblastes dont l'expression du récepteur myostatin est réduite par un shRNA.

### **Research training (niveau externat et internat)**

Gilles Plourde : Transmission synaptique dans l'Aplysia californica

### **Director of postdoctorate trainee**

- 1) Jean-Thomas Vilquin (6/1993 à 6/1996)  
Greffe syngénique de myoblastes: anticorps contre la dystrophine
- 2) Ikuo Kinoshita (9/1993 à 12/1995)  
Immunosuppression avec FK506 dans la greffe de myoblastes
- 3) Hijiri Ito (01/1996 à 12/1996)  
Greffe de myoblastes chez le chien et le singe
- 4) Valentine Brussee (01/1996 à 01/2000)  
Rôle de l'exercice excentrique dans le greffe de myoblastes aux souris mdx
- 5) Frank Merly (06/1996 à 06/1997)  
Contrôle de la mort des myoblastes par le TGF-beta
- 6) Daniel Skuk (06/1996 à 10/2004)  
Identification d'anti-inflammatoires contrôlant la mort des myoblastes
- 7) Sophie Seigneurin-Venin (07/1997 à 02/2000)  
Réaction inflammatoire suite à la greffe de myoblastes
- 8) Daniel Jung (09/1997 à 07/1998)  
Correction des gènes dans les myoblastes avant leur transplantation
- 9) Karine Leriche-Guérin (07/98 à 06/2002)  
Transformation de fibroblasts en myoblastes et épissage des exons mutés pour restaurer l'expression de la dystrophine
- 10) ElMostafa El Fahime (09/1998 à 05/2004)  
Rôle de la stromelysine 3 dans la progression tumoral: Cancer du sein
- 11) Yvan Torrente (06/1999 à 08/2001)

## Rôle des cellules souches dans la régénération musculaire

- 12) Thomas Paccalet (06/2007 à ...)  
Développement d'une thérapie génique pour la Myopathie Héritaire à Corps d'Inclusion (HIBM)
- 13) Daniel Cerri (09/2007 à ...)  
Correction génétique des myoblastes de chiens dystrophiques.

## **EXTERNAL PARTICIPATIONS**

Eastern chapter Canadian Society for Neuroscience  
Member 1976 to 1990

American Society of gene Therapy  
Member 1987 to 2007  
Member of the Musculo-Skeletal Disorder Committee (2001 to ...)

Association Paralysie Cérébrale  
Member of board of directors (1982-1984)

Muscular Dystrophy of Canada  
Member of scientific committee – (1991-1995)  
President of Encan Nancy Moreau Gala 2002, 2003 and 2004.

Medical Research Council of Canada  
Member of program committee (1985-1986)  
Member of grant committee of for neuroregulatory mechanisms (1989-1991)

Muscular Dystrophy Association (MDA) (USA)  
Vice-president June 1997 to June 1999

Parent's Project for Muscular Dystrophy  
Member of scientific committee (June 1996 to June 1998)

Cell Transplant Society  
Member of executive committee of (since March 1999)  
Secretary 2003 to 2006  
President 2006-2007

External examiner for thesis:  
January 1998, M. Jason White, Melbourne Neuromuscular Research Center,  
Fitzroy, Australie

StemCellNetwork  
Member since April 2001

## Management responsibilities

- Director of program committee, neurobiology
- Member of UPA, anatomy
- Director neurobiology program (1986-1987)
- Director anatomy department (1987- 1997)

## Scientific criticism

### Grants

- external referee CRSQ
- external referee CRM
- external referee March of Dimes
- external referee British Columbia Health and Welfare
- internal referee program committee of MRC
- internal referee postdoctorate bursary committee for FRSQ
- internal referee neuroregulation committee of MRC
- referee NIH committee for gene therapies (2001)
- referee NIH committee for clinical trials of gene therapy for belt dystrophy for Mendel group (2002)
- president NIH committee for remits of muscular dystrophy research center (June 2003)
- internal referee NIH committee Skeletal Muscle Biology and Exercise Physiology (SMEP) (Mars 2004)
- Member of assessment committee 'Nanomedecine and regenerative medecine' CIHR September 2004

### Scientific publications :

- co-publisher Cell Transplantation review (section muscle and bone)

### Member of the Editorial board of the following scientific journals

- European Journal of Histochemistry
- Tissue Engineering
- Graft: Organ
- Cell Transplantation
- Molecular Therapy

### - Referee for the following following scientific journals:

- Canadian Journal of Physiology and Pharmac.
- Brain Research
- Molecular Neurobiology
- Synapse
- Journal of Neuroscience
- Journal Cell Biology
- Muscle and Nerve

- Experimental Cell Research
- Journal Orthopaedic Research
- Human Gene Therapy
- Gene Therapy
- Transplantation
- Journal of Animal Science
- Nature
- Nature Biotechnology
- Journal Cell aging
- Cancer Research
- FEBS Letters
- Human Molecular Genetics
- American Journal of Transplantation
- Journal of Cell Science
- Stem Cells

### **LAVAL UNIVERSITY COLLABORATOR**

Dr Reynald Roy, Immunologist, dept medicine  
 Dr Jean-Pierre Bouchard, Neurologist, dept medicine  
 Dr Jack Puymirat, Neurologist, dept medicine  
 Dr Claude Gravel, Molecular Biologist, dept psychiatry

### **LAVAL UNIVERSITY EXTERNAL COLLABORATOR**

Dr Michel Fardeau, INSERM 153 and Hôpital Pitié-Salpêtrière, Paris, France  
 Dre Kathryn Wood, John Radcliffe Hospital, Oxford University, England  
 Dr Marc Entman, Baylor College of Medicine, Houston, TX, USA  
 Dr Denis Barriteault, Université Paris XII, Paris, France  
 Dr Richard Bartlett, University of Miami Medical School, Miami, FL, USA  
 Dr Jeff Chamberlain, Universi. of Michigan Med School, Ann Harbor, MI, USA  
 Dre Eva Engvall, Burnham Institute, La Jolla, CA, USA  
 Dr Giovanni Meola, San Donato Hospital, University of Milan, Milan, Italy  
 Dr Dusty Miller, Fred Hutchinson Cancer Research Center, Seattle, WA, USA  
 Dr Paul Robbins, University of Pittsburgh Medical School, Pittsburgh, PA, USA  
 Dr Jean-Thomas Vilquin, Hôpital La Pitié-Salpêtrière, Paris, France  
 Dr Jean-Claude Kaplan, Hôpital Cochin, Paris, France  
 Dr Georges Karpati, McGill University, Montréal, Québec, Canada  
 Dr Paul Holland, McGill University, Montréal, Québec, Canada  
 Dr Michael Rudnecki, MacMaster University, Toronto, Ontario, Canada  
 Dr Jean-Michel Vos, USA.

### **EVALUATION OF DOCTORATE THESIS**

Thesis of Jason White, Melbourne University, Australia

## INVITED CONFERENCES

- 1) Sept 1976 McGill University  
Dept. of Physiology  
"Depression, facilitation and PTP in *Aplysia californica*"
  
- 2) Nov. 1976 Participation aux échanges France-Québec avec présentation de conférences dans les laboratoires de:  
  
Dr Jouvett (Université Claude Bernard, dépt. méd. exp.)  
Dr Tauc (CNRS, Gif sur Yvette)  
Dr Gerchenfeld (École Normale Supérieure, Paris)  
Dr Arvanilaki (CNRS, Marseille)  
  
Titre de la conférence: "*Étude de la plasticité de la transmission à la synapse RC1-R15 de l'Aplysie*".
  
- 3) Sept. 1977 Participation à une émission de télévision à Radio-Québec dans la série: "*La science en question*".
  
- 4) Août 1980 Participation aux échanges France-Québec avec présentation de conférences dans les laboratoires de:  
  
Dr Jouvett (Université Claude Bernard, dépt. méd. exp.)  
Dr Couteau (Université de Paris, lab. de cytologie)  
Dr Droz (Centre d'études nucléaires de Saclay, dépt. de biologie)
  
- 5) Oct. 1980 McGill University, Dept. of Physiology "*Study of depression, facilitation and PTP in Aplysia californica*".
  
- 6) Nov. 1980 Montreal General Hospital  
"*The dynamic morphology of synaptic contacts: exocytosis, endocytosis and vesicles recycling*".
  
- 7) Déc. 1980 Hôpital de l'Enfant-Jésus  
"*L'utilisation de l'Aplysia californica comme modèle pour l'étude de la transmission synaptique*".
  
- 8) Jan. 1984 Participation aux échanges Ontario-Québec avec présentation d'une conférence dans les universités suivantes:
  - Université McGill
  - Université de Sherbrooke
  - Université de Montréal
  - Université Queen
  - Université McMaster
  - Université de Toronto
  - Université d'Ottawa



Titre de la conférence: "*Morphometric changes produced by stimulation in synapse of the chick ciliary ganglion*".

- 9) Oct. 1984 Président d'un symposium intitulé *Mechanisms of transmitter release* tenu durant le congrès de la Société des neurosciences à Anaheim, CA, USA. Présentation d'une conférence d'introduction pendant ce symposium.
- 10) Jan. 1987 Conférencier invité pour un symposium sur les mécanismes de la transmission synap-tique dans le cadre des Winter Conferences on Brain Research, Vail, CO, USA.
- 11) Août 1987 Conférencier invité pour un symposium sur la transmission synaptique au cours du second congrès mondial de Neurosciences, Budapest, Hongrie.
- 12) Juin 1988 Tremblay, J.P., Korn, H., Grinnell, A.D., Robitaille, R., Woitowicz, Atwood, A., Henneman, E. and Redman, S. Workshop. Society for Neurosciences, 18e Congrès Annuel, Toronto, Ontario, Canada. *Non uniformity of synaptic physiology: implications for plasticity in the nervous system.*
- 13) Sept. 1990 Conférencier dans un symposium sur le transfert des myoblastes. VII International Congress on Neuromuscular Diseases, Munich, Allemagne.
- 14) Sept. 1990 Conférencier au congrès intitulé *Muscular Dystrophy Research 90: from molecular diagnosis toward therapy*, Venise, Italie.
- 15) Fév. 1991 Conférencier invité, département de physiologie, Université de Montréal. *Transplantation de myoblastes.*
- 16) Mars 1991 Conférencier invité, Hospital for Sick Children, Toronto, Ontario, Canada. *Preliminary results of human myoblast transplantations.*
- 17) Juin 1991 Conférencier invité pour le 4<sup>e</sup> Colloque National sur les maladies neuromusculaires à Montpellier, France. Symposium intitulé: *Thérapie cellulaire*. Titre de la conférence: *Transplantations de myoblastes dans les muscles de patients atteints de la dystrophie de Duchenne.*
- 18) Juil. 1991 Conférencier invité par l'Université de Milan, Italie, département de neurologie. Titre de la conférence: *Clinical trial of myoblast transfer.*
- 19) Mai 1992 Conférencier invité par le Service de neurologie de l'Hôpital de la Salpêtrière, Paris, France. Titre de la conférence: *Les problèmes immunologiques associés à la transplantation de myoblastes.*

- 20) Mai 1992 Conférencier invité par la MDA lors d'un colloque sur les thérapies sur la Dystrophie musculaire de Duchenne, Houston, Texas, USA. Titre de la conférence: *Results of pre-liminary trials of myoblast transfer in human.*
- 21) Juin 1993 Conférencier invité pour le 5<sup>e</sup> Colloque National sur les maladies neuromusculaires à Strasbourg, France. Symposium intitulé: *Aspects Thérapeutiques.* Titre de la conférence: *Problèmes immunologiques associés à la transplantation de myoblastes chez la souris et l'homme.*
- 22) Mars 1994 Conférencier invité de la *MDAC Scientific Retreat* à Val Morin, Québec, Canada. Titre de la conférence: *Investigation of immunological problem following myoblast transplantation in mice.*
- 23) Mai 1994 Conférencier invité pour le Congrès de l'ACFAS à Montréal, Québec, Canada pour un colloque intitulé: *Maladies musculaires et cardiomyopathies: Recherches génétiques et thérapeutiques.* Titre de la conférence: *Problèmes immunologiques associés à la transplantation de myoblastes chez l'humain.*
- 24) Juin 1994 Conférencier invité lors du Workshop for Gene and Cell Therapy at the John Robarts Research Institute, London, Ontario, Canada. Titre de la conférence: *Immunological problems following myoblast transplantation.*
- 25) Juil. 1994 Conférencier invité à Nagasaki University Hospital, Nagasaki, Japon. Titre de la conférence: *Problems and future of myoblast transfer.*
- 26) Oct. 1994 Conférencier invité à Orlando, FL, USA, par la Muscular Dystrophy Research Foundation. Titre de la conférence: *The future of myoblast transfer.*
- 27) Oct. 1994 Conférencier invité pour une session intitulée: *Therapy for Childhood Neuromuscular Disease* dans le cadre du *International Child Neurology Congress* à San Diego, CA, USA. Titre de la conférence: *Myoblast transfer.*
- 28) Oct. 1994 Conférencier invité pour le congrès de l'American Society for Histocompatibility and Immunogenetics à Pittsburgh, PA, USA dans le cadre du Symposium intitulé *Cell Transplantation.* Titre de la conférence: *Myoblast Transplantation.*
- 29) Avr. 1995 Conférencier invité pour le symposium: *"Regeneration: today and tomorrow"* tenu dans le cadre du "Fifth Annual Meeting of the Wound Healing Society" à Minneapolis, MN, USA. Titre de la conférence: *Myoblast transplantation for skeletal muscle regeneration in Muscular Dystrophy.*
- 30) Fév. 1996 *Problems and solutions in myoblast transplantation.* Conférence présentée à Transkaryotic Therapies Inc., Cambridge, MA, USA.

- 31) Juin 1996 Immune response following gene therapy in the Parent's project for Muscular Dystrophy. Conférence présentée à l'Université de Pittsburgh, Pittsburgh, PA, USA.
- 32) Sept. 1996 *Myoblast transplantation: many problems and some solutions*. Conférence présentée en session plénière. The Cell Transplant Society, Third International Congress, Miami Beach, FL, USA.
- 33) Oct. 1996 *Principaux problèmes qui ont limité le succès de la transplantation de myoblastes et quelques solutions*. Conférence présentée en session plénière du 6e Colloque sur les Maladies Neuromusculaires. Versailles, France.
- 34) Mars 1997 *Recent progress in myoblast transfer therapy: control of the immune response*. Parent's Project, Pittsburgh University, Pittsburgh, PA, USA.
- 35) Mai 1997 *The problems responsible for the limited success of myoblast transplantation and some solutions*. MDA/AFM Gene Therapy Meeting à Tucson, AZ, USA.
- 36) Août 1997 Participation au symposium. *Immunogenicity: its role in cell transplantation and gene therapy*. Sirot 97, Haifa, Israel
- 37) Nov. 1997 *Control of inflammatory reaction and specific immune response following myoblast transplantation and gene transfer with adenovirus*. Fifth Meeting of the European Group on Human Gene Transfer and Therapy (conférencier invité).
- 38) Mai 1998 Conférence dans un symposium. *Treatment of dystrophies and other diseases by the transplantation of genetically-modified cells*. World Muscle Meeting, Naples, Italy.
- 39) Juin 1998 Conférence plénière: *Duchenne muscular dystrophy: recent advances in cell and gene therapy*. 34 th Neuropathology Meeting, Association La Nostra Famiglia, Milan, Italie.
- 40) Juin 1998 Invited speaker Symposium on Cell Based Therapy. *Myoblast transfer*. Third Canadian Gene Therapy Symposium, Montréal, Québec, Canada.
- 41) Juin 1998 Invited speaker *Transplantation de myoblastes*. Conférence présentée dans le cadre de l'École d'été en Myologie, Institut de Myologie de la Salpêtrière, Paris, France.
- 42) Juillet 1998 Invited speaker Présentation dans un symposium. *Myoblast transplantation: problems and solutions*. XVIII World Congress of the Transplantation Society, Montréal, Québec, Canada.
- 43) Août 1998 Invited speaker Conférence dans un symposium: *Potential therapies of the human dystrophies. Transplantation of normal or genetically modified cells to*

*treat dystrophies and non muscular diseases.* Neuromuscular Disorders, Adelaide, Australie.

- 44) Août 1998 Invited speaker Conférence dans un Workshop: *Growth Factors and Muscles. Myoblast transplantation in fibrotic muscles is improved by bFGF.* Neuromuscular Disorders, Adelaide, Australie.
- 45) Dec. 1998 Tremblay, J.P., Brussee, V., Skuk, D., and Jung, D. Invited speaker *Recent development in myoblast transplantation.* Tissue Engineering and Biomaterials. XIemes Entretiens du Centre Jacques Cartier, Lyon, France.
- 46) Mars 1999 Invited speaker Conférence dans un symposium: Tremblay, J.P., Skuk, D. and Brussee, V. *Recent progress in myoblast transplantation.* Fourth International Congress of the Cell Transplant Society, Montreux, Suisse.
- 47) Avril 1999 Invited speaker Conférence dans un symposium on Cell Therapy. Tremblay, J.P. and Skuk, D. *Successful transplantation of myoblasts throughout the biceps of monkeys.* Fourth DMD Gene Therapy Workshop, Paris, France.
- 48) Août 1999 Invited speaker Conférence dans un symposium. *"Recent progress of myoblast transplantation in a primate".* International Conferences on Gene Therapy and Molecular Biology and Medecine, Crete, Grèce.
- 49) Mars 2000 Invited speaker Conférence intitulée: *Planning of a new clinical trial of myoblast transplantation.* Congrès International de Myologie, Nice, France.
- 50) Avril 2000 Invited speaker Conférence intitulée : *Myoblast transplantation in non-human primates'* Pittsburg Orthopaedic Tissue Engineering Symposium. Pittsburg, PA, USA.
- 51) Juin 2000 Invited speaker Conférence intitulé: *Myoblast transplantation in non-human primates', The Parent project annual conference: Duchenne in the Millenium.* Pittsburg, PA, USA.
- 52) Nov 2000 Invited speaker Conférence intitulé: *' Progrés dans la transplantation de myoblastes à des fins thérapeutiques',* Société de Biologie, Paris, France
- 53) Déc 2000 Invited speaker Conférence intitulé: *'Transplantation de myoblastes pour le traitement des myopathies et des insuffisances cardiaques',* Association Française contre les Myopathies, Paris, France.
- 54) Juin 2001 Invited speaker *Myoblast transplantation in primates. Parent Project for Muscular Dystrophy 7<sup>th</sup> Annual National Conference June 22-24 2001.*
- 55) Oct 2001 Invited speaker *Prolongation of complete allogeneic myoblast survival using anti-CD154 antibody and donor-specific transfusion. 10<sup>th</sup> Anniversary Congress of the Cell Transplant Society, October 14-17, 2001.Keystone Colorado.*

- 56) Oct 2001 Invited speaker Implication of uPA system in the myoblast migration. 10<sup>th</sup> Anniversary Congress of the Cell Transplant Society, October 14-17, 2001.Keystone Colorado.
- 57) Oct 2001 Invited speaker Dynamics of the early immune cellular reactions after myoblast transplantation. 10<sup>th</sup> Anniversary Congress of the Cell Transplant Society, October 14-17, 2001.Keystone Colorado.
- 58) Oct 2001 Invited speaker Technical and immunological factors affecting the efficacy of intramuscular donor-myoblast injections in non-human primates: potential clinical implications. 10<sup>th</sup> Anniversary Congress of the Cell Transplant Society, October 14-17, 2001.Keystone Colorado.
- 59) Avril 2002 Invited speaker Human myoblast transplantation. In Cystic Fibrosis and Neuromuscular Diseases : perspectives from cell therapy. Association Française contre les Myopathies. Paris 25 au 27 Avril 2002.
- 60) Juillet 2002 Invited speaker Conférence dans un symposium. Defining myoblast transplantation parameters  
Xth Internationale Congress on Neuromuscular Diseases, Vancouver July 12-15 2002
- 61)July 2003 Invited speaker Development of immunological tolerance to myoblast transplantation. Federation of American Societies for Experimental Biology Summer Conference entitled Skeletal Muscle and Satellite Cells. Tucson, AZ.
- 62) Sept 2003 Invited speaker Transplantation of myoblasts : recent progress. 32<sup>nd</sup> European Muscle Conference, Montpellier, France Sept 7-10 2003
- 63) Fév 2004 Invited speaker Stem cell from bench to bedside. Myocardial regeneration : which cells and why. XVII International congress endovascular interventions. Phoenix AZ Fév 8-11 2004
- 64) Avril 2004 Invited speaker Développement d'une thérapie pour la dystrophie musculaire de Duchenne basée sur la greffe de myoblastes ou de cellules souches. Conférence CREFSIP Université Laval.
- 65) Juin 2004 Invited speaker Preliminary results of myoblast transplantation to DMD patients. Annual Meeting Muscular Dystrophy Canada. Toronto,Canada
- 66) Juin 2004 Invited speaker Résultats préliminaires de la greffe de myoblastes chez des patients DMD. Généthon. Paris, France
- 67) Oct 2004 Invited speaker Transplantation de myoblastes dans des modèles animaux et chez l'humain. 7<sup>e</sup> colloque Association de thérapie génique du Québec. Québec, Canada

- 68) Nov 2004 Invited speaker Ex vivo gene therapy. 8th International Congress of Cell Transplant Society. Boston, USA
- 69) Feb 2005 Invited speaker "Which Cell and Why: For Myocardial Repair" in the Plenary Session Angiogenesis, Myogenesis, and Tissue. International Congress XVIII on Endovascular Interventions, February 13-17, 2005, in Scottsdale, Arizona
- 70) Feb 2005 Invited speaker Immunogenicity of Stem Cells. Would the presentation title you listed below, Development of immunological tolerance to avoid the rejection of allogeneic cells. International Congress XVIII on Endovascular Interventions February 13-17, 2005, in Scottsdale, Arizona.
- 71) Mai 2005 Invited speaker Restoration of dystrophin expression in the muscle fibers of Duchenne Muscular Dystrophy patients immunosuppressed with tacrolimus. Myologie May 9-13 2005, Nantes, France.
- 72) Juin 2005 Invited speaker Conference in the Skeletal Muscle Satellite and Stem Cells Symposium: Progress in myoblast transplantation in DMD patients and in animal models. FASEB Meeting June 11-16, 2005 Tucson, Arizona, USA
- 73) Oct 2005 Invited speaker Participation to a round table on Stem Cell Research during the INRS-Institut Armand-Frappier Congress, Lac-à-l'eau Claire, Quebec, Canada
- 74) Nov 2005 Invited speaker Conference entitled: "Myoblast transplantation: a potential therapeutic tool for muscle disease" in a Symposium entitled "Muscle Stem Cells" during the Canadian Society for Exercise Physiology (CSEP), Ottawa, Canada.
- 75) Nov 2005 Invited speaker Conference entitled: Results of a Phase I clinical trial of transplantation of muscle precursor cells to DMD patients. Stem Cell Network annual meeting. Calgary, Alberta, Canada
- 76) Jan 2006 Invited speaker Conference entitled: 'Progress in myoblast transplantation in animal models and in DMD patients'. In a meeting called Translation of exon skipping to the clinic: how to make it a cure for Duchenne Muscular Dystrophy? Saturday January 14<sup>th</sup>, 2006 – Principality of Monaco
- 77) Mai 2006 Invited speaker Conference in a symposium on Immunological Tolerance entitled: 'Development of immunological tolerance for muscle precursor cell transplantation.' Cell Transplant Society Congress, Milan, Italy
- 78) June 2006 Invited speaker Conference presented in the 6<sup>th</sup> Annual S Mouchly Small Muscle Symposium, Progress in myoblast transplantation in animal model and in DMD patient. University of Massachusetts, Amherst, MA, USA
- 79) June 2006 Conference entitled: Dystrophin Expression in Muscles of Duchenne Muscular Dystrophy Patients Following High-Density Injections of Normal Myogenic Cells.

Presented during the 9th Annual Meeting of American Society of Gene Therapy Congress, Baltimore, MD, June 1-3.

- 80) July 2006 Invited speaker Conference entitled: 'Cell Transplantation' presented during the World Transplant Congress Boston, USA, July 22-27.
- 81) Sept 2006 Invited speaker Conference presented during the reception of the Henry Friesen Award presented during the Canadian Society for Clinical Investigation Annual Meeting 'Development of a cell therapy for recessive muscular dystrophies and a view of the future'. Ottawa, Canada
- 82) Nov 2006 Invited speaker Genetic modification of myoblasts, 9ième colloque de l'Association de thérapie génique du Québec (ATGQ) Montréal, Canada.
- 83) Feb 2007 Main organisator of the International Workshop on Cell Migration Introduction conférence : Introduction to myoblast transplantation and to the migration problem. Evry, France.
- 84) May 2007 Invited speaker *Allogeneic and autologous transplantation of myoblasts : potential therapies for recessive muscular dystrophies. The 20<sup>th</sup> Anniversary of the DMD Gene Discovery: Impact on Muscle Biology, Disease and Therapy* symposium. Ottawa, Canada.
- 85) June 2007. Transplantation of autologous genetically modified myoblasts: a possible treatment for recessive muscular dystrophies. American Society of Gene Therapy Annual Meeting, Seattle, USA.
- 86) Sept 2007 Myoblast transplantation: a potential treatment for several recessive muscular dystrophies Invited Speaker: Presidential Symposium Joint Conference CTS IPITA IXA Minneapolis USA
- 87) Sept 2007 Revisiting the problem of the limited migration of myoblasts transplanted in a muscle. Invited Conference. Joint Conference CTS IPITA IXA Minneapolis USA

## **PATENT APPLICATION**

**1** : Method of in vitro preconditioning of healthy donor's myoblasts before transplantation thereof in compatible patients suffering of recessive myopathies like muscular dystrophy, for improving transplantation success. DH/11229.70.

**US patent #5833978** (10 nov. 1998)

**2** : Method of restoring a functional protein in a tissue by cell transplantation (demandes PCT/CA96/00191; CA 2,260,808; EP 96907971.4; US 09/405,572)

**3** : Method of in vitro preconditioning healthy donor's myoblasts before transplantation (demandes PCT/CA97/00774; CA 2,269,096; EP 97944670.5; US 09/284,605 +CIP 10/105,815)

**US Patent n° 10/105,815**

Apply for : March 21th 2002

Approved : October 11th 2006

**4** : Treatment of hereditary diseases with gentamicin  
(demande US 09/469,622 et CA 2,292,874)

**PUBLICATIONS****- 1971 -**

1. Johnson, R., Vergriete, J.C. and Tremblay, J.P. Analyse automatisée de l'électrocardiogramme et du vectocardiogramme. *L'Union médicale du Canada*, 100: 1935-1942,
2. Rosenberg, R., Dalessio, D., Tremblay, J. and Woodman, D. Kinetics of acetyl-choline syn-thesis and hydrolysis in myasthenia gravia. *Science*, 173: 644-645.

**-1974 -**

3. Schlapfer, W.T., Woodson, P.B.J., Tremblay, J.P. and Barondes, S.H. Depression and frequen-cy facilitation of a synapse in Aplysia californica: evidence for regulation by availability of transmitter. *Brain Research*, 76: 267-280.
4. Tremblay, J., Schlapfer, W.T., Woodson, P.B.J. and Barondes, S.H. Morphine and related compounds: evidence that they decrease available neurotransmitter in Aplysia californica. *Brain Research*, 81: 107-118.
5. Tremblay, J., Simon, M. and Barondes, S.H. Cerebroside may be falsely identified as a soluble brain specific protein. *J. Neurochem.*, 23: 315-318.

**-1975 -**

6. Schlapfer, W.T., Woodson, P.B.J., Smith, C.A., Tremblay, J. and Barondes, S.H. Marked pro-longation of post-tetanic potentiation at a transition temperature and its adaptation. *Nature*, 258: 623-625.
7. Woodson, P.B.J., Schlapfer, W.T., Tremblay, J.P. and Barondes, S.H. Cholinergic agents af-fect two receptors that modulate transmitter release at a central synapse in Aplysia californica. *Brain Research*, 88: 455-474.
8. Schlapfer, W.T., Woodson, P.B.J., Tremblay, J.P. and Barondes, S.H. Resting values of the parameters of a flow model of transmitter economics at a plastic synapse in Aplysia californica. *Neuroscience abstract*, p. 645.
9. Traynor, M.E., Woodson, P.B.J., Tremblay, J.P., Schlapfer, W.T. and Barondes, S.H. Specific decrease of PTP duration by ethanol at a synapse in Aplysia exhibits prolonged tolerance. *Neuroscience abstract*, p. 643.



10. Tremblay, J.P., Woodson, P.B.J. and Schlapfer, W.T. Monoamines effects on the depression frequency facilitation and post-tetanic potentiation a cholinergic synapse in Aplysia californica. *Can. Med. Assoc. J.*, p. 328.
11. Woodson, P.B.J., Schlapfer, W.T., Tremblay, J.P. and Barondes, S.H. Changes in the parameters of a flow model of transmitter economics during and after repetitive stimulation at a plastic synapse in Aplysia californica. *Neuroscience abstract*, p. 644.

**- 1976 -**

12. Schlapfer, W.T., Tremblay, J.P., Woodson, P.B.J. and Barondes, S.H. Frequency facilitation and post-tetanic potentiation of a unitary synaptic potential in Aplysia californica are limited by different processes. *Brain Research*, 109:1-20.
13. Tremblay, J.P., Woodson, P.B.J., Schlapfer, W.T. and Barondes, S.H. Dopamine, serotonin and related compounds: presynaptic effects on synaptic depression frequency facilitation and post-tetanic potentiation at a synapse in Aplysia californica. *Brain Research*, 109: 61-81.
14. Woodson, P.B.J., Schlapfer, W.T., Tremblay, J.P. and Barondes, S.H. Resting and stimulated values of model parameters governing transmitter release at a synapse in Aplysia californica. *Brain Research*, 109:21-40.
15. Woodson, P.B.J., Schlapfer, W.T., Tremblay, J.P. and Barondes, S.H. Synaptic depression at a synapse in Aplysia californica: analysis in terms of a water flow model of neurotransmitter. *Brain Research*, 109: 41-59.
16. Woodson, P.B.J., Tremblay, J.P., Schlapfer, W.T. and Barondes, S.H. Heterosynaptic inhibition modifies the presynaptic plasticities of the transmission process at a synapse in Aplysia californica. *Brain Research*, 109:83-95.

**- 1977 -**

17. Tremblay, J.P. and Plourde, G. Presynaptic modulating effects of GABA on depression, facilitation and post-tetanic potentiation of a cholinergic synapse in Aplysia californica. *Can. J. Physiol.* 55: 1286-1301.
18. Tremblay, J.P. and Grenon, G. Benzodiazepines mimic the presynaptic action of GABA on a cholinergic synapse of Aplysia. *Neuroscience abstract* p. 520.

**- 1979 -**

19. Tremblay, J.P., Colonnier, M. and McLennan, H. An electron microscope study of synaptic contacts in the abdominal ganglion of Aplysia californica. *J. Comp. Neurology* 188: 367-390.
20. Colonnier, M., Tremblay, J.P. and McLennan, H. Synaptic contacts on glial cells in the abdominal ganglion of Aplysia californica. *J. Comp. Neurology* 188: 391-400.

**- 1980 -**

21. Tremblay, J.P., Grenon, G. and Plourde, G. The effects of hemicholinium-3 on synaptic depression, facilitation and PTP at an identified synapse of Aplysia californica. *Can. J. Physiol. and Pharm.* 58: 373-383, 1980.
22. Tremblay, J.P. and Grenon, G. Benzodiazepines modify synaptic depression, frequency facilitation and PTP of an identified cholinergic synapse of Aplysia. *Life sciences* 27: 491-496, 1980.

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23. Philippe, E., Grenon, G. et Tremblay, J.P. Mechanism of action of baclofen on synaptic depression, frequency facilitation and PTP at an identified synapse of Aplysia californica. *Can. J. Physiol. Pharmacol.*, 59: 244-252, 1981.
24. Tremblay, J.P. and Philippe, E. Morphological changes in presynaptic terminal of the chick ciliary ganglion after stimulation in vivo: a stereological study showing a net loss of total membrane. *Exp. Brain Research*, 43: 439-446, 1981.
25. Philippe, E. and Tremblay, J.P. In vivo stimulation of a cholinergic synapse of the chick ciliary ganglion induces a reduction in the number of dense core vesicles. *Neuroscience Letters*, 24: 307-312, 1981.

**- 1982 -**

26. Tremblay, J.P. and Grenon, G. Modulation of synapse RC1-R15 of Aplysia californica, by fiber(s) of the right connective. *Can. J. Physiol. and Pharmacol.* 60: 685-697, 1982.
27. Philippe, E. and Tremblay, J.P. Heterogeneous labeling of mitochondria, endoplasmic reticulum, microfilaments and synaptic vesicles with a lectin (DBA-peroxidase), *Neurosc. Letters* 30: 7-12, 1982.
28. Laurie, R.E. and Tremblay, J.P. Boutons originating from the same axon do not participate equally in synaptic transmission. *Neurosc. Letters*, 29: 135-140, 1982.

**- 1983 -**

29. Philippe, E. and Tremblay, J.P. Labeling of an intermediate saccule of the Golgi Apparatus and of parts of the endoplasmic reticulum by a lectin (Soybean agglutinin) in the chick ciliary ganglion. *Neurosc. Letters*, 35: 121-126, 1983.
30. Philippe, E. and Tremblay, J.P. Increased number of peptidergic and cholinergic vesicles in synapses of the chick ciliary ganglion following 10 Hz in vivo stimulation. *Neurosc. Letters*, 35: 149-154, 1983.
31. Tremblay, J.P., Laurie, R.E. and Colonnier, M. Is the MEPP due to the release of one or to the simultaneous release of several vesicles at one active zone? *Brain Res. Review*, 6: 299-314, 1983.

**- 1984 -**

32. Tremblay, J.P., Robitaille, R. and Grenon, G. Distribution of spontaneous release along the frog neuromuscular junction. *Neur. Lett.* 51, 247-252, 1984.

**- 1985 -**

33. Tremblay, J.P., Gravel, C. and Hawkes, R. A monoclonal antibody to B-tubulin identifies a subset of neurons and axons in the chick ciliary ganglion. *Can. J. Biochem. and Cell Biol.* 63, 458-469, 1985.
34. Tremblay, J.P., Robitaille, R. and Grenon, G. Miniature endplate potential amplitudes corrected for spatial decay are not normally distributed. *Brain Research* 328, 170-175, 1985.

**- 1986 -**

35. Tremblay, J.P., Belhumeur, C., Sasseville, R. and Grégoire, L. Non monotonic morphometric changes produced the mouse neuromuscular junctions following in vivo stimulation at various frequencies. *Exp. Brain Res.* 61, 638-644, 1986.
36. Belhumeur, C. and Tremblay, J.P. Fast turnover of clear vesicle membrane in frog sympathetic ganglion. *Neuroscience* 17, 1267-1274, 1986.

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37. Robitaille, R. and Tremblay, J.P. Incorporation of vesicular antigens into the presynaptic membrane during exocytosis at the frog neuromuscular junction: a light and electron microscopy immunochemical study. *Neurosci.* 21, 619-629, 1987.
38. Tremblay, J.P., Grégoire, L., Sasseville, R. and Belhumeur, C. Repeated stimulation of the dystrophic mouse neuromuscular junctions. *Muscle and Nerve* 10, 303-311, 1987.
39. Robitaille, R. and Tremblay, J.P. Non uniform release at the frog neuromuscular junction: evidences of morphological and physiological plasticities. *Brain Res. Review* 12, 95-116, 1987.
40. Robitaille, R., Tremblay, J.P. and Grenon, G. Non uniform distribution of MEPP amplitudes along the length of frog neuromuscular junction. *Neuros. Lett.* 74, 187-192, 1987.
41. Robitaille, R., Tremblay, J.P. and Grenon, G. Interrelation between MEPP amplitude and MEPP frequency in different regions along the frog neuromuscular junction. *Brain Res.* 408, 353-358, 1987.

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42. Tremblay, J.P., Grégoire, L., Sasseville, R. and Belhumeur, C. Reduction of postjunctional folds density and depth in dystrophic mice. *Synapse.* 2, 148-156, 1988.
43. Tremblay, J.P., Robitaille, R. and Atwood, H.L. "Gaba and benzodiazepines in invertebrate species" in "GABA and benzodiazepine receptors" Vol. 1, pp 23-58, 1988. *Eds. R.F. Squires, C.R.C. Press Inc.*

44. Labrecque, C., Tremblay, J.P. and Fahim, M.A. Scanning electron microscopic study of the neuromuscular junction of dystrophic mice. *J. of Exp. Neurol.* 100, 51-64, 1988.

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45. Tremblay, J.P., Robitaille, R., Martineau, O.C.A. and Fahim, M. Proximo-distal gradients of the postjunctional folds at the frog neuromuscular junction: a scanning electron microscopic study. *Neuroscience.*, 30, 535-550, 1989.
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Tagmouti, S., Restoration of alpha-sarcoglycan expression by transplantation of normal myoblasts. **(In preparation).**

Geoffrey Camirand<sup>2</sup>, Lionel Stéphan<sup>2</sup>, Joël Rousseau<sup>2</sup>, Mélanie K. Sackett<sup>2</sup>, Nicolas J. Caron<sup>2</sup>, Philippe Mills<sup>2</sup>, Josef Kurtz<sup>3</sup>, Megan Sykes<sup>3</sup> and Jacques P. Tremblay<sup>2</sup> Lack of thymic selection of neo-gene expression despite central tolerance after myogenic cell transplantation. **To be resubmitted**

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