ᑎᕿᒋᔪᓇᐃᓴᓂᐅ ᐅᖏᑦ ᐊᓂᔨ ᐁ ᓂᑐᑭᔭᐸᖏᑦᑕᓴᓚᓂᐅᓂᖅ ᓂᖏᑕᐅᑭᖏᑦᑭᓴᓂᖅ
ᐊᓂᔨᖏᑦ ᐁ ᐅᐃᑭᖏᐃᐅᐁᕐᓚᓂᖅ ᐁ ᓇᓚᖏᑐᑌᓕ ᐁ ᔪᓐᐃᓴᒥᖏᑦᓴᓇᖏᑦ

ᑎᕿᒋᔪᓂᖏᐃᑭᓇ ᐅᖏᑦ ᐊᓂᔦ ᐃ ᓂᑐᑭᔭᐸᖏᑦᑕᓴᑭᓇᐃᓕᓂᖏᑦ ᓂᖏᑕᐅᑭᖏᑦᑭᓇᓂᖅ
ᐊᓂᖏᐃ ᐃ ᐅᐃᑭᖏᐃᐅᐃᐊᔪᓕᖏᑦ ᐃ ᓂᓚᖏᐅᑕᓕᖏᑦ ᐃ ᔪᓐᐃᓴᒧᑭᖏᑦᓴᓂᐅᓕᓚᓕ

Reports from the anti-diabetic plant project

ᐅᖏᑦᑐᖏᑦᐅᐃᔪᓚ
ᐅᖏᐱᖏᑦᐅᐃᔪᓗ
August **2009**

ᓴᓇᑦ ᐃᑐᑎᔪᓕᐃᓇ ᐁ ᐅᖏᑦ ᓂᑐᑭᔭᐸᖏᑦᑕᓴᓚᓂᖅ ᒥᔨᐱᒪᑎᔪᓕᐃᓇ ᐊᓂᒃ ᓴ
ᐃᑐᑎᔪᓂᓚᖅᑕᖏᑦᓴᓂᖅ ᐃᓄ ᓂᑐᖏᔨᓇᓇ ᐁ ᐅᐃᑭᖏᐃᐅᐁᕐᓚᓕᔨᓚ ᐁᓴ ᒉ ᔪᓐᐃᓴᒧᑭᖏᑦᓴᓂᐅᓕᓚᓕ

ᓴᓇᑦ ᐃᐱᑎᔪᓕᐃᓇ ᐃ ᐅᖏᑦ ᓂᑐᑭᔭᐸᖏᑦᑕᓴᓚᓂᖅ ᒥᔨᐱᒪᑎᔪᓕᐃᓇ ᐊᓂᒃ ᓴ
ᐃᐱᑎᔪᓐᓇᕐᑎᓚ ᐃᓕᓕᐅ ᓂᑐᖏᔨᓇᓇ ᐃ ᐅᐃᑭᖏᐃᐅᐃᐊᔪᓕᖏᑦ ᐃᓴ ᒐ ᔪᓐᐃᓴᒧᑭᖏᑦᓴᓂᐅᓕᓚᓕ

CIHR Team in Aboriginal Anti-Diabetic Medicines

ᑎᐸᒋᒍᓂᐦᐃᑲᓂᐦ ᐅᐦᑭ ᐊᓂᔨ ᐁ ᓂᔑᑎᓀᔪᐦᑕᕆᓇᐦᐧᑲᐦ ᓂᐦᑕᐅᑭᐦᑭᕆᓇᐦ ᐊᓂᔨᐦ ᐁ ᐧᐃᑭᐦᐃᐧᐁᐸᐦᐧᑲᐦ ᐁ ᓇᑲᐦᐅᑌᓴ ᐁ ᔑᐧᐊᕆᒥᐦᐧᑲᓇᐦᐧᓴ*

ᑎᐸᒋᒍᓂᐦᐃᑭᓇ ᐅᐦᑭ ᐊᓂᔭ ᐊ ᓂᔑᑎᓴᐦᑕᑭᓂᐧᐃᓴᐦ ᓂᐦᑕᐅᑭᐦᑭᑭᓇ ᐊᓂᐦᐃ ᐊ ᐧᐃᑭᐦᐃᐧᐊᐁᐸᓴᐦ ᐊ ᓂᑲᐦᐅᑌᓴᐦ ᐊ ᔑᐧᐊᕆᒥᐦᐧᑲᓇᐦᐧᐃᓴ*

Reports from the anti-diabetic plant project*

CIHR Team in Aboriginal Anti-Diabetic Medicines
Équipe IRSC sur les médecines autochtones antidiabétiques

ᒐᔑᔪᓴ ᐱᐳᓇᐦ ᐁ ᓂᔭᑐᐧᐃᐧᑕᐤ ᐊᓂᑭ ᑲ ᐋᐸᑎᓯᐦᑲᐦᑎᐦᐧᑲᐤ

ᑲᓀᒐᑕ ᐋᐸᑎᓯᐧᐃᓇ ᐁ ᐅᐦᑭ ᓂᑐᑎᓀᔪᐦᑕᕆᓇᐦᐧᑲᐦᐊ ᒥᔦᐱᒪᑎᓯᐧᐃᓇ ᐊᓂᑭ ᑲ ᐋᐸᑎᓯᐦᑲᐦᑎᐦᐧᑲᐤ ᐃᓇᑲ ᓂᑐᐦᐁᔪᐦᐧᑲᐤ ᐁ ᒪᔨᐦᐦᐧᑎᐸᓀᐧᑲᐤ ᐁ ᔑᐧᐊᕆᒥᐦᐧᑲᓇᐦᐧᓴᐦ ᒎᓂᐣᐤ, ᐅᐦᐸᐦᐅᐱᔨᒪ 2009

ᐋᔑᔪᓴ ᐱᐳᓇᐦ ᐋ ᓂᔑᑐᔨᐦ ᐊᓂᑭ ᑲ ᐋᐱᑎᔑᔑᑎᐦᐧᑲᐦ

ᑲᓀᒐᕆᐦ ᐋᐱᑎᓯᐧᐃᓇ ᐋ ᐅᐦᑭ ᓂᑐᑎᓀᔪᐦᑕᕆᓇᐦᐧᑲᐦᐊ ᒥᔦᐱᒪᑎᓯᐧᐃᓇ ᐊᓂᑭ ᑲ ᐋᐱᑎᔑᔑᑎᐦᐧᑲᐤ ᐃᔨᔨᐤ ᓂᑐᐦᐦᐧᑎᐸᓀᐧᑲᐦ ᐋ ᒪᔨᐦᐦᐧᑲᐱᔨᔨᐦᐦᐧᑲᐦ ᐋ ᔑᔑᐧᐊᕆᒥᐦᐧᑲᓇᐦᐧᓴᐦ ᐋ ᔑᔑᐧᐊᕆᒥᐦᐧᑲᓇᐦᐧᓴᐦ ·ᒪᓀᔦᐤ, ᐅᐦᐱᐦᐅᐱᔨᒪ 2009

Annual Team Retreat

CIHR Team in Aboriginal Anti-Diabetic Medicines
Montreal, August 2009

Conseil Cri de la santé et des services sociaux de la Baie James
ᓂᑐᔨᔨᓴ ᑲᐦ ᐃᒋᐃ ᐧᐊᐃᓴ ᐊᓇᓇᑲᒋᑕᑲᓂᐦᐧᑲᐦ
Cree Board of Health and Social Services of James Bay

Université de Montréal
McGill
Institut de recherche en biologie végétale IRBV
Jardin botanique de Montréal
Universite de Montreal
uOttawa
L'Université canadienne
Canada's university

*ᔨᐃᐱᔨᔨ ᐁ ᑲᓂᐦᐧᐊᐸᓂᐦᐧᑕᕆᓇᐦᐧᑲᐤ ᑎᐦᑲᔨ: ᐁᐅᐳᔨ ᑎ ᑭᔨᐱᓂᐦᐧᑎᒪᔨ ᒥᔨ ᐊᓂᑭ ᐊᐧᐁᓂᑭ ᐁ ᐧᐃᒋᐦᐃᐧᐁᐧᐊᐧᑕᐧᐣ ᐊᓂᔭ ᐁ ᐧᐃᒋᐦᐃᐧᐁᐸᓀᐧᑲᐦᐊ ᐁᐃᑭ ᑎ ᐧᐃᒋᐦᐃᐧᐁᐸᓀᐧᑲᐦᐊ ᐁᐃᑭ ᐁ

ᐊᓐ ᐁ ᐱᒋᐸᓕᓵ ᐁ ᓂᔨᑐᓕᓵᑕᕆᓚᓵᖅᑎᓱᓵ ᓂᓵᑕᐅᑎᑭᖅᓵ ᖁ ᑭ ᐧᐃᐅᓵᐋᑯᑦᐧᐣ ᐁ ᐅᔭᑕᐸᓕᓵᐋᑯᑦᐧᐣ ᐁ ᔑᐧᐊᕆᒥᖅᑫᑦᐧᐣ, ᐁᐅᔪᑯ ᐁ ᐧᐃᐅᓵᐋᐧᐁᑦᐧᐣ ᐋᓚᓵ ᐁ ᐧᐃᐅᓵᐊᑦᐧᐣ ᐊᐧᐁᓱᓵ ᐁ ᐅᔭᑕᐸᓕᓵᐋᑯᓕᖅᓵ ᐁ ᔑᐧᐊᕆᒥᖅᑫᓕᖅᓵ ᑲᔪ ᑎᖏᐋᓚᓵ ᑲᔪ ᐊᓂᑭ ᑲ ᓂᔨᑐᓕᓵᑕᕆᓚᓵᖅᑎᓱᓵ, ᐁᓱᔪᑯ ᐁ ᐊᐧᐸᑎᓵᑲᐧᐣᑕᐧᐣᑲᐧᐣ ᐁ ᐧᐃᐅᓵᐋᐧᐁᑦᐧᐣ ᐁ ᐊᓐᐅᓵᐋᐧᐁᑦᐧᐣ ᐁ ᐧᐃᐅᓵᐊᑦᐧᐣ ᐁ ᐅᔭᑕᐸᓕᓵᐋᑯᓕᖅᓵ ᐁ ᔑᐧᐊᕆᒥᖅᑫᓕᖅᓵ ᑭᔪ

ᓇᓴᒍᔪᓇᐃᑲᓴ ᐅᓐᑭ ᐅ ᐁ ᐃᔨ ᓂᐃᑎᓴᐦᑕᒪᓂᖅ ᑲᓴ ᒣᑦᑲ ᐱᒋᐸᓱ ᐁ ᒪᔪᓇᐅᑦᐳᔪᓂᖅᓚ

ᐅ ᐁ ᐃᔨ ᓂᐃᑎᓴᐦᑕᒪᓂᖅᑦᑲᑭ ᓂᓐᑕᐅᓐᑭᖅᓴ, ᓇᓵᓐᑯ ᖃᑲᑎᒋᔪ ᐅ ᐁ ᐃᔨ ᐱᒋᐸᓱᓐᓚ ᐊᓂᑎ ᐃᓵᑲ ᑲ ·ᐃᑭᓐᐃᔪᑦᑕᑲ ᐊᓂᑎᒋᔪᑦᑕᑲ ᐁ ᑭᓴᐦᒋᓐᓚᑲᑦ ᐁ ᑭᓴᐦᒋᓐᓚᑲᑦ ᑲ ᑭᓴᐦᒋᓐᓚᑲᑦ ᐁ

ᑯᓴᐱᖏᓄᑦᓴᐱᖓᓂᖅ, ∇ᑯᑌ ᐅᑌ ᖁ ᑭ ᐋᖓᑌᐸᓕᓴᓄᓯ·Δᖓᓂᖅ http://www.taam-emaad.umontreal.ca/× ∇ᐅᑯ ᐃᓵ ᖁ ᑎᓯᑭᖓᑕᕆᓄᓯ·Δᖓᓂᖅ ᓄᓴᖓᓄᑯ ∇ Δᔪᓂ ᐱᒋᐸᓕᖓᓂᖅ ᖁ·ᑲᓄᓵ ᖁ ᑭ ᓱ>ᖓᑐ·∇<ᓕᖓᑕᕆᓄᖅ·ᑲᓄᓵ" ᐊᓂᔪᖓ" ᑎᐸᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ" ᐅᖓᖅ ᐃ ∇ Δᔪᓂ ᓂᐅᑎᖁᓕᖓᑕᕆᓄᓯ·Δᖓᓂᖅ, ᒥᖓᓄᖅ" ∇ᓵᑯ ᑎᐸᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ" ᒣ·ᑲᓄᓵ ∇ ᓄᓂ·ᐊᐱᖓᑕᕆᓄᖅ·ᑲᓄᓵ° ∇ᓴᑯ ∇ᑲᓄᓵ ᖁ ᑭ ·ᐊᐱᖓᑕᖓ·ᑲᓄᓵ° ᒥᓕᒍᓄᓵ ∇ᐅᑯ ·ᒣᖓᓄ ᐃ ᑎᐸᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ, ᓄᒧᐃᐃ ᒧᓱ ᑎᓄᓵ ·ᐊᐱᖓᑎ·ᐊᓄᓵ ∇ ᒥᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ ᐃᓄᓵ ᑎᓄᓵ ·ᐊᐱᖓᑎ·ᐊᓄᓵ ∇ ᒥᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ ᐃᓄᓵ ᑎᓄᓵ ᐊᓂᔪᖓ" ᐊᓂᔪᖓ" ᑎᐸᓕᒍᓕᓄᖓᐊᑲᓵᓄᖅ"

ᑎᕿᒋᓯᓇᖅᐃᑲᓐᓄᑦ ᐅᖅᑭ ᐊᓂᑌ ᐯᖅᑲᒃ ᐁ ᐅᖅᑭ ᓂᐅᑭᔾᔪᖅᑕᕆᔨᒃᑯᓐᓄᑦ ᓂᖅᑕᐅᑭᖅᑭᓐᓄᑦ ᐁ ᐅᖅᑭᐸᔪᓐᓄᑦ ᐅᐃᐅᐃᒪᑲᓂᐃᓯᒪᓕ – ᐅᒪᔨᐃᓯᒪᓕ 2009

A. ᖃᐅᑦᑎ
B. ᐊᑦᓭᓴᓐ
C. ᐅᓭᓴᑦ
D. ᐯᓂᑦ
E. ᔨᓗᔪᑦ
F. ᐅᓚᓴ

ᑎᕿᒋᓯᓇᓂᐃᑭᓐᓄᑦ ᐅᖅᑭ ᐊᓂᑦᑎ ᒥᑭᓐ ᐃ ᐅᖅᑭ ᓂᐅᑭᓴᔪᖅᑕᕆᑭᓂᐅᐃᓐᓄᑦ ᓂᖅᑕᐅᑭᖅᑭᓐᓄᑦ ᐃ ᐅᖅᐱᐸᓐᓄᑦ ᑭᓴᐳᔪᓂᐃᓯᒪᓕ – ᐊᔪᓴᒪᓕ 2009

A. ᖃᐅᑦᑎ
B. ᐊᑦᓭᓯᓐ
C. ᐅᓭᑎᑦ
D. ᐯᓂᑦ
E. ᔨᓗᔪᑦ
F. ᐅᓚᓴ

Reports from the laboratories for January – May 2009

A. Haddad
B. Arnason
C. Foster
D. Bennett
E. Cuerrier
F. Johns

A. ᑎᐸᒋᒍᓂᓪᓗᒃᓴᓐ ᐅᖏᑉ ᐊᓂᑌ "ᐊᑦᑕᑦ ᐁ ᐅᖏᑉ ᓂᑐᑎᔨᖏᑦᑕᒃᓱᓐᓄᑦᐤ" ᓂᖏᑦᐅᑎᖏᑉᑐᒃᓴᓐ (ᑐᓴᓪᓚᒃᓂᓴᓂᒡ – ᐃᓕᓴᓂᒡ 2009)

ᐁ ᑎᕋᔨᖏᑦᑕᓱᓱᒃᓴᖓ ᑭᓐ ᑕᓐ ᓄ ᓴᓂ ᓂᑐᑎᕋᔨᖏᑦᑕᒃᓱᓐᓄᑦᐤ ᐁ ᐃᕋᐸᔨᓴᓂᑦᑕᓐ ᐊᐳᔪᓂᓂᖓ ᑭᑐᕋ ᓄᖅ ᐧᐊᑭᓴᒃᓴᓐ"

ᐁᕝᔪ ᐅᕝ ᑌᕋᐊᓴ "ᐊᑦᕿᐱᓴᕋ ᐁ ᓴᓂ ᓂᑐᑎᔨᖏᑦᑕᖅᓴ ᐊᓂᕝ ᖃ ᑭ ᐱᓇᑦᑕᑦ PhD ᐅᒪᓯᓇᖏᓴᓐᓄᓐᓵ

ᐁᕝᔪ ᓄ ᓂᑐᑎᕋᔨᖏᑦᑕᖅᓴ ᑌᕋᐊᓴ ᕕᓐ ᐁ ᐃᕋᐸᔨᓴᓂᔪᓴᓐᓄᑦ ᐊᐳᔪᓂᖏᓐᓇᑦ ᐊᓂᕝ ᐁ ᒥᑦᑕ ᑭᑐᕋᑦ ᓄᖅ ᐧᐊᑭᓴᒃᓴᓐ", ᐁᕝᔪ ᐊᓂᕝ

- ᐁᓄᒃ ᖃ ᑭ ᑕᖅᐳᔨᓴᓐᓄᑦ, ᓄᓕᑦ ᒪᓴ
- ᖃ ᑭ ᐊᔪᐸᐃᔨᓴᓐᓄᑦ ᐊᓂᕝ ᓱᓕ ᐁ ᑕᖅᐳᔨᓴᓐᓄᑦ

ᓱᓕ ᑭ ᑭᓕᑕᓄ ᐅᕝᔪ ᓅᓕᓐ ᖃ·ᓄᕝᔪᖅ" ᓄ ᓂᑐᑎᖏᑦᑕᖅᓴ ᑌᕋᐊᓴ ᓄᖅ ᒣ·ᓄᓴ ᒪᓯᓇᖏᓴᓐᓄᑦ ᑎᐸᒋᒍᓂᓪᓗᒃᓴᓐ ᐊᓂᕝ ᓄ ᐃᓂ ᒥᑎᑯ·ᐊᖅᑕᖅᓵᓐ ᑭᓐ ᒪᓴ ᐸᑎᒪᒪ ᐁᕝᔪ ᐅᕝ ᐊᓴᐸᔨ ᖃ ᐃᖅᑎᑐ ᐁ ᐃᖅᑎᑕ ᐁ ᐃᓂᑕᓴᓐᓄᑦ ᐅᑐᓴᐊᖅ ᐁ ᓂᑐᖅᓴᓐᓄᑦ ᐊᓂᕝ ᑭᑐᕋᑦ, ᐁᕝᔪ ᐊᓂᕝ ᓴᓚᑯᓄᓐ salicortin ᓄ ᐃᓂᓂᓄᑐᓴᓐ ᖃ·ᓄᕝᔪ ᐁ ᓂᑐᖅᓴᓐᓄᑦᓵ

ᐁ ᑎᕋᔨᖏᑦᑕᓱᓱᒃᓴᖓ ᑭᓐ ᑕᓐ ᓄ ᓴᓂ ᓂᑐᑎᕋᔨᖏᑦᑕᒃᓱᓐᓄᑦ ᐁ ᐃᕋᐸᔨᓴᓂᑦᑕᓐ ᐊᐳᔪᓂᓂᖓ ᐃᓴᕐᒥᒃᓴᓐ"

ᐁᕝᔪ ᐅᕝ "ᐅᑦ ᐃᑦ ᐁ ᐃᓂ ᓂᑐᑎᖏᑦᑕᖅᓴ ᐊᓂᕝ ᖃ ᑭ ᐱᓇᑦᑕᑦ PhD ᐅᒪᓯᓇᖏᓴᓐᓄᓐᓵ

ᐊᓐ ᐅᑦᓴ ᓄ ᐃᓂ ᓂᑐᑎᕋᔨᖏᑦᑕᒪᒪᓴ, ᐁᕝᔪ ᓄ ᑭᕋᑭ·ᑦᑕᓐ ᐊᐳᔪᓂᓂᖓ ᐊᓂᑭ 2 ᓄ ᐃᑎᑯᓇᑌᕋᓴ ᐁ ᓂᑦᐊᑲᒥᑦ·ᓄᑦᑕᓐ ᐊᓂᕝ ·ᐃᓕᑎᒥᓇᓐᓵ", (ᐁᔪᑦ

A. ᑎᐸᒋᒍᓂᓪᓗᒃᓴᓐ ᐅᖏᑉ ᐊᓂᑦ "ᐊᑦᑕᑦ ᐊ ᐅᖏᑉ ᓂᑐᑎᔨᖏᑦᑕᒃᓱᓐᓄᑦᐤ ᓂᖏᑦᐅᑎᖏᑉᑐᒃᓴᓐ (ᑭᓕᓵᔪᓂᓂᒡᒋ – ᐊᓂᓕᔪᓂᒡ 2009)

ᐊ ᑭᓕᔨᖏᑦᑕᓱᓱᒃᓴᖓ ᑭᓐ ᑕᓐ ᓄ ᓴᓂ ᓂᑐᑎᔨᖏᑦᑕᒃᓱᓐᓄᑦ ᐊ ᐃᓕᐸᔨᓴᓂᔪᓴᓐᓄᑦ ᐊᐱᔪᓂᓂᖓ ᑭᓐ ᒥᑦᑕ ᑭᑐᕋᑦ ᐊᑎᖏᑦᑕᓐᓄᑦᐤ"

ᐊᕝᔪ·ᐃᓂ ᐅᓄ ᑕᓕᐊᓇ "ᐊᑦᕿᐱᓴᕋ ᐊ ᓴᓂ ᓂᑐᑎᔨᖏᑦᑕᖅᓴ ᐊᓂᓄ ᓕ ᑭ ᐱᓇᑦᑕᑦ PhD ᐅᒥᓯᓇᖏᓴᓐᓄᓐᓵ

ᐊᕝᔪ·ᐃᓂ ᓄ ᓂᑐᑎᔨᖏᑦᑕᖅᓴ ᑕᓕᐊᓇ ᑭᓐ ᐊ ᐃᓕᐸᔨᓴᓂᔪᓴᓐᓄᑦ ᐊᐱᔪᓂᓂᖓ ᐊᓂᓄ ᖃ ᑭ ᐱᓇᑦ ᑭᑐᕋᑦ ᓄᖅ ᐧᐊᑭᓴᒃᓴᓐ", ᐊᕝᔪ·ᐃᓂ ᐊᓂᓄ

- ᐊᓄᒃ ᓕ ᑭ ᑕᖅᐳᔨᓴᓐᓄᑦ, ᓄᓕᑦ ᒪᓴ
- ᓕ ᑭ ᐊᑭᓐ·ᐃᐱᐸᔨᓴᓐᓄᑦ ᐊᓂᓄ ᓱᓕ ᐊ ᑕᖅᐳᔨᓴᓐᓄᑦ

ᓱᓕ ᑭ ᑭᓕᑕᓄ ᐅᓄ ᓅᓕᓐ ᓕᖅᓄᓴᓐᓄᑦ ᓄ ᓂᑐᑎᕋᔨᖏᑦᑕᖅᓴ ᑕᓕᐊᓇ ᓄᓕᑦ ᒪᖅᓄᓴ ᒥᓯᓇᖏᓴᓐᓄᑦ ᐊᓂᓄ ᓄ ᐃᓂ ᒥᑎᑯ·ᐊᖅᑕᖅᓵᓐ ᑭᓐ ᒪᓴ ᐸᑎᒪᒪ ᐊᕝᔪ·ᐃᓂ ᐊᓂᓄ ᐃᓐᓇᐃᓐᓄᑦ ᐊᓂᕝ ᐁ ᑭᓐ ᐊᔪᐸᐃᔨᓴᓐᓄᑦ ᓄᖅ ᐧᐊᑭᓴᒃᓴᓐ ᓄᓕᑦ ᐊᓂᓄ ᐁ ᓂᑐᖅᓴᓐᓄ

ᐊᓂᑦ ᐅᓂᐋᒧᐊᓪᓚᑲᓪ ᑲ ᐃᖏᑎᑯᓂᔨᖏᓐ)ₓ ᐁᓴᐢ ᒪᖅ ᐅᓴ ᑲ ᐊᐅᖏᐃᑯᓯᐣ ᓄᖏᑦᖏᓐ ᐁ ᐃᔨᐸᔪᓂᔨᖏᓐ ᓇᑲᓴ ᐊᓂᑕ ᐅᒥᖏᑯᐊᓪᓚᖏᓐₓ ᐁᐅᐢ ᒪᖅ ᐁ ᐃᑕᔨᒪᒪᓕᑲᓂᔨᖏᓐ ᖃᐢᑲᓴ ᐊᓂᑦ ᐅᑎᖏᐱᐊᓪᓚᖏᓐ ᐁ ᐊᐃᖏᑕᒪᒪᓐ ᐁ ᐊᐃᖏᑕᒪᑯᓯᐣ ᓴᓐ ᐁ ᑭᓐᓴᐢᐅᐃᓯᓂᐣ ᐅᑎᖏᐱᐊᓪᓚᖏᓐ ᖃᐢᑲᓴ ᐊᐅᖏᐃᑯᓯ

ᐊᓂᔪᒃ ᐊᐧᐁᓂᑭ ᐁ ᓱᐧᐊᐳᒥᐧᕐᐧᑕᐢ, ᐁᑯᑦ ᓄᒧᐃᐃ ᒥᔪᑦᓂᔪᒃ ᐊᓂᔪᒃ ᑲ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐣ ᐊᓂᑌ ᐋᐧᑭᔪᓫ ᐁᐅᑯ ᒪᒃ ᐊ ᐧᐃ ᐅᓱᐧᑕᑲᐧᖏ ᐅᓱᐧᑕᑲᐧᖏ ᐊᓂᑌ ᐋᐧᑭᔪᓫᐧᖏ ᑎᐧᖏ ᐁ ᐃᓱᓄᓯᐧᖏ ᑎᐧᑲᓄ ᐋᐧᑭᔪᒃ ᐊᓄ ᐁᑲ ᒥᔪᑦᓂᔨᐧᖏ ᑎ ᑭ ᐊᐸᑎᓯᒪᐧᖏ ᑲ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐧᖏ, ᐁᑯ ᒪᒃ ᑎ ᑭ ᓂᐅᑦᓴᔨᐧᑕᒪᐧᖏ ᐊᓂᔪᒃ ᓂᐧᖏᐅᑭᐧᑕᑭᐧᖏ ᐊᓂᑌ ᐅᒃᑲᓂᓱᐧᖏ ᐁ ᐃᓱ ᓂᐅᑦᓴᔨᐧᑕᒪᐧᖏ ᐊᓄ ᑭᑲ ᒥᔪᑦᓂᔨᐧᖏ ᑎ ᑭ ᒥᔪᑦᓂᔨᐧᖏ ᐁ ᐊᐸᑎᓯᒪᐧᖏ ᑲ ᑭ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐧᖏ, ᐁᑯ ᒪᒃ ᑎ ᑭ ᓂᐅᑦᓴᔨᐧᑕᒪᐧᖏ ᐊᓂᑌ ᓂᐧᖏᐅᑭᐧᑕᑭᐧᖏ ᐁ ᐃᓱᓄᓯᐧᖏ ᑎᐧᑲᓄ ᐋᐧᑭᔪᒃ ᐊᓄ ᐁᑲ ᒥᔪᑦᓂᔨᐧᖏ ᑎ ᑭ ᐊᐸᑎᓯᒪᐧᖏ ᑲ ᑭ ᒥᔪᑦᓂᔨᐧᖏ ᐁ ᐃᓱᓄᓯᐧᖏ ᑲ ᑭ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐧᖏ, ᐁᑯ ᒪᒃ ᑎ ᑭ ᓂᐅᑦᓴᔨᐧᑕᒪᐧᖏ ᑲ ᑭ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐧᖏ ᐁ ᐃᓱᓄᓯᐧᖏ ᑎᐧᑲᓄ ᐋᐧᑭᔪᒃ ᐊᓄ ᐁᑲ ᒥᔪᑦᓂᔨᐧᖏ ᑎ ᑭ ᒪᓄᐧᐊᐳᒥᐧᐃᑐᑦᓂᔨᐧᖏ ᐁ ᐃᓱᓄᓯᐧᖏ ᑲ

2) ᐊᓐ ᑭᓐ ᓄᑕᒃ ᐅᓐᓴᐃᒪᓪ, ᐅᐅᓄ ᐅ ·ᐃᑎᓐᐃ·ᐅᐸᓄᒃ ᖏ ᑭ ᑲᓇ·ᐅᔨᓐᑕᑯᓐᒃ ᓂᐅᒃᐤ ᐊᓂᑌ ᑭᔪᓄᓇᓐᒃ, ᐅᓄ ᐃᒃ ᐅᐅᒃ ᖏ ᐃᓐᑎᓄᓐᒃ ᓂᐅᒃᐤ ᐊᓂᑌ ᑎᒥᓐᓄᓇᓐᒃᓵ ᐅ ᐃᒃ ᐅ ᐃᔪᐸᓄᓐᒃ, ᐅᐅᓄ ᐅ <ᓄᔪᓄᓐᑕᒪᓐᒃ ᐊᓐ ᓂᐅᑎᓐᑕᑯᓐᒃ ᐅ ᖏ ᑭ ᐃᓂ ·ᐃᑎᓐᐃ·ᐅ<ᓄᓐᒃ, ᐅᓄ ᐃᒃ ᖏ ᑭ ᑲᓇ·ᐅᔨᓐᑕᑯᓐᒃ ᓂᐅᒃᐤ ᒥᔪᓂᓐᒃ, ᐅᐅᒃ ᖏ ᐃᔪᐸᓄᓐᒃ ᐊᓂᑌ ᒥᓄᓐᒃᓵ

ᐅᔨᓄ ᐊᓂᔨ ᒥᓯᐅ ᐅ ᓂᐃᑭᔪᓄᓐᑕᓐᒃ ᐊᐱᕀ ᐊᓂᔨᐤ ᓂᐅᑎᑭᑯᓐᒃᓵ ᐅᔨ ᓄᓪᓄᓄᒃ ᖏ ᑭ ᐃᔪᐸᓂᓄᓐ·ᑲᐤᐤᓵ ᑐᓴ ᒪᐃ ᑭᔪᓄᓐᑕᑯᓐ ᐸᔪᒃ ᐊᓂᔨᐤ ᓂᐅᑎᑭᑯᓐᒃᓵ ᐅ ᑕᐱᔭᓄᓐ ᐅ ᐃᓂ ·ᐃᑎᓐᐃ·ᐅᐸᓐ·ᑲᐤᐤᓵ ᐊᓐ ᑲ ᒪᓂ·ᐊᑲᒥᓐᐃᑫᐸᓐᒃᓵ ᐅᔨᓄ ᐃᐸᑎᓐᐃᔨᓀᐤᓵ ᐅ ᐃᓂ ᐊᐸᑎᓐᑕᑯᓐᒃᓵ ᐅᔨᓄ ᐃᒃ ᒪᐧᑐᑐ ᐋᓯᒪᐦ ᐃᓂ ᓄᔭᑕᒥᐤ, ᐅᔨᓄ ᑭᓐ ᖏ ᓂᐃᑭᔪᓄᓐᑕᑯᓐᒃᓵ ᐅᔨ ᖏ ᑭ ᐃᓂ ·ᐃᑎᓐᐃ·ᐅᐸᓐ·ᑲᐤᐤᓵ

ᐅ ·ᐊᓵᐊᐸᓀᑕᑲᓄᐧᐣ ᑲᑎᐧᐳᓄ ᑲᔾ ·ᐃᔭᑢᐳᓄᔭ ᐅ ᐃᓂ ᑕᐧᐺᐃᑫᐸᓐᒃ ᐊᓐ ᐅ ᑲᓇ·ᐅᔨᓐᑕᑯᓐᒃ ᐱᑦ ᐊᓂᑌ ᐋᐧᑢᔨ

ᐅᔨᓄ ᐅᔨ ᒐᓱᔪᒪ ᐅᖏᐳᓐ ᐅ ᓂᐃᑭᔪᓄᓐᑕᓐᒃ ᐊᓂᔨ ᖏ ᑭ <ᓄᑕᒃ MSc ᐅᒪᓯᓇᐧᐃᑲᓐᒃᓵ

ᓂᓇᐧᓄᒍ ᖏ·ᑲᓐ ᑕᐧᐺᐃᑫᐸᓐᔨ ᐊᓂᑦ ᑭᐱᑭᒥᓇ ᐊᓐ ᐅᑎᑐ ᒥᔭᑕᐧᐃ ᖏ ᑭ ᑲᓇ·ᐅᔨᓐᑕᑯᓐᒃ ᐱᑭ ᓄᔭᑦ ᒪᖏ ᐅᑎᑐ ᐊᐱᔑᔭ ᖏ ᑭ ᑲᓇ·ᐅᔨᓐᑕᑯᓐᒃ ᐱᑭᓵ ᐅᐅᓄ ᐃᒃ ᐅ ᐃᓂ ᓂᐃᑭᔪᓄᓐᑕᓐᒃ ᐅᔨᓄ ᐃᓐᐱᓂᓐᑕᑯᓐᒃ ᐊᓐ ᐅ ᐃᐧᑎᓂᓂᐸᓐᑲᐤᐤᓵ ᐅᑭ ᐃᒃ ᐅᐅᒃ ᖏ ᑭ ᐃᓂ ᓂᐃᑭᔪᓄᓐᑕᓐᒃ ᐊᓐ ᐅ ᐃᐧᑎᓂᓂᐸᓐᑲᐤᐤᓵ ᐅᐅᓄ

ᐁ ᐊᐳᒍᑌᓄ ᐊᓂᔨ ᑎᐸᒋᔪᓀᐦᐃᑲᓀᐣ ᓱᓐ ᑲ ᐅᑎᐢᑲᓄᐦᑊᐢ

ᐸᐣᓄ ᐊᓂᔨᐣ ᑎᐸᒋᔪᓀᐦᐃᑲᓀᐣ ᑭ ᓀᐣᐞᒍᐧᐃᓱᓄ ᑐ ᑭ ᒪᔪᓀᐦᐃᑲᓄᐦᑊᐢᐣ ᐊᓂᑌ ᒥᔪᑌᐣᑲᒥᐣ ᑲ ᒪᔪᓀᐦᐃᑲᓄᐦᑊᐢᐣ ᑎᐸᒋᔪᓀᐦᐃᑲᓂᐣ, ᐊᓂᑭ ᑲ ᓂᑐᐣᐣᑕᐣᐞᐢᐣ ᐅᑎᐸᒋᔪᓀᐦᐃᑲᓂᐣ.

1) “ᐁ ᑲᓄᐞᐊᐸᐣᑭᑲᓄᐦᑊᐢᐣ ᐸᐣᓄ ᓂᐣᑭᐅᑎᑭᑲᓀᐣ ᑐ ᑭ ᐞᐃᑭᐣᐃᐞᐁᐸᓄᐦᑊᐢᐣ ᐁ ᓂᑲᐣᐃᐃᐞᐁᐸᓄᐣ ᑭᓀ ᐁᓄᐣᐸᐃᐣᐃᐞᐁᐣ ᐁ ᔑᐞᐊᑎᓂᐦᑲᓄᐦᑊᐢᐣ ᐊᓂᑌ ᑭᐞᐁᑎᓂᐣ ᑲᓄᐦᑊᐢᐣ ᐁ ᑲᐣᐸᐃᐣᐦᑊᐢᐣ: ᒪᔪᓀᐃᑲᓀ IIₓ” ᐁᐅᓄ ᐅ ᑐ ᒪᔪᓀᐃᑲᓄᐦᑊᐢᐣ ᐞᐊᐱᓄᐞᐱᒪ 2009 ᐃᐣᐸᐣᑐ ᐊᓂᑌ ᑲᓄᐦᑊᐢᐣ ᑎᐸᒋᔪᓀᐃᑲᓀᐣ ᐁ ᓄᓀᑲᑎᑭᑲᓄᐦᑊᐢᐣ ᒥᐊᐃᒪᑎᑦᐞᐃᓀ ᑲᐊ ᓂᐣᑭᐅᑎᑭᑲᓀᐣ ᓂᐣᐞᐃᓀᐣᑲᓀᐣ ᐁᓄᐞᐃᓀ ᐁᐅᓄ ᑲᓄᐦᑊᐢᐣ ᐁᓄᐞᐃᓀ ᐁᐅᓄ ᐁᐅᓄ ᐁᐅᓄ

∇ ◁ᓕᒍᒧᑎᓱᓄᖅ ᑎᐸᒋᔨᓂᐊᓵᖅ ᑲ ᐃᑎᔭᓄᐊᓵᓱᓄᖅ ᐊᓂᑌ ᑎᐸᒋᔨᓂᐊᓵᐃᖅᓂᖅ

ᐸᔭᖅ ᐊᓂᓯ ᔨᑕᖅ ᑎᐸᒋᔨᓂᐊᓵᐃᖅᓄᖅ ᑲ ᒪᔨᓂᐊᓵᐃᖅᓱᓄᖅ ᑭ ᐃᑎᔭᓄᐊᓵᐃᖅᓱᓄᖅ ᐊᓂᑌ ᓀᓇᐃᓱᓄᖅ ᐊᓂᑌ ᑎᐸᒋᔨᓂᐊᓵᐃᖅᓂᖅ ᖃ ᑭ ᒪᔨᓂᐊᓵᐃᖅᓱᓄᖅ, ∇ᔭᓄ ᐃᖅ ᒣᓱᖅ ᓂᒋᔨᓂᐊᓵᐃᒋᓀᓇᖅ ᒋᐧᐯ ᖃ ᓂᔭᐃᓀᐃᓱᓄᖅ ᐊᓂᓯ ∇ ᐃᑎᔨᓀᑌᓄᖅᓂᖅ ᐅᒪᐃᖅ ᐃᖅ ᐊᓂᓯᓄ ᑎᐸᒋᔨᓂᐊᓵᐃᖅᓄᖅ:

1) “∇ ᐧᐃᑭᓄᐃᐧ∇ᐸᓗᐧᓱᓄᖅ ᓂᓄᒋᐅᑭᑎᑲᓱᓄᖅ ᐊᓂᑌ ᑭᐧ∇ᑎᓂᓄᖅ ᑲᓀᒋᓪ ∇ ᐅᓄᐸᓗᐧᓱᓄᖅ ᖃ ᑭ ᐱᓄᑌᓂᓄᖅ ᓂᐅᓱᖅ ᐊᓂᑌ ᐧᐃᖅᓂᓄᖅ, ᐧᒣᓄᖅ ᐊᓂᓯᑎᑲᑉᓄᖅᓂᖅ” ∇ᔭᓱ ᐅᔭᓪ ᑲ ᒪᔨᓂᐊᓵᐧᐊᓱᓄᖅ ᓗ·ᐃ ᒪᕀᑎᓀᓇ, ᒋᓂᔨᓪ ᐊᑌᓗᐧᐊᓪᓗᓪᓕᕀᓪ, ᒋᒣᖅ ᓵᓪᒋᕀᓪ, ᐊᕀᕐᐳᓪ ᐊᕀᓵᓪᓕ, ᐧᐁᖅ ᐊᕀᓀᓪᓂᖅ, ᑲᔪ ᐱᔨᕀ “ᐊᑭᒋᓪ ∇ᑯᑌ ᐊᓂᑌ ᑲ ᐃᑎᔭᓄᐊᓵᐃᖅᓱᓄᖅ ᐅ ᑎᐸᒋᔨᓂᐊᓵᐃᖅᓄᖅ ᐊᓂᑌ ᒣᒋᐧᐸᓗᐧᒪᒪᓪ Metabolism ᑲ ᐃᔭᓂᐧᑲᑌᓪ ᐊᓄ ᒪᐸ

3) “ᐊᐅᐁᓯᓗᓪ ᐁ ᓰᐅᑲᒪᒥᐧᑫᐧᑦᐅ ᐁ ᓂᐃᑎᓀᓂᒪᓕᒪᓄᐅᑦᐅ ᐁ ᐃᓗ ᐅᐃᑎᐧᐃᓄᐅᑦᐅ ᒪᓕᐊᒥᓄᓇᓐᓂᐊᓄᓪᓕ, ᐊᐅᓪᓴ ᓂᐧᑕᐅᑎᐧᑎᒪᓄᓪᓴ ᐁ ᐊᐸᑎᐧᑦᐅᐅ ᐃᓄᐅ ᐊᐅᑎ ᐁᐃᑎᓕᐅᓪ ᐁᐃᓕᑎᐧᑦᐅᐅ ᐁ ᐅᐃᑎᐧᐃᓄᓪᓴ ᐁ ᓰᐅᑲᒪᒥᐧᑫᐧᑦᐅᐅ” ᐁᓴᐅᐟ ᐅᓴ ᐅ ᒥᓯᓂᐊᒥᐧᐅ ᐃᓕ ᓰᐅᑲᒪᒥᐧᑫᐧᑦᐅᐅ ᐃᓕᑎᐧᑦᐅᐅ ᐁᐃᓕᑎᐧᑦᐅᐅ ᐁᐃᓕᑎᐧᑦᐅᐅ ᐁ

B. ᑎᐸᓭᒍᓂᖅᐊᑲᓐ ᐊᓂᑌ ᐃᖃᓂᓴᓐ ᓪᓚᐸ ᐁ ᐅᖅᓭᐸᓐᖏᑦ
(ᓴᐃᐊᒪᑲᓂᐊᓕᒫᓐ – ᐊᒥᐃᓕᒫᓐ 2009)

ᐁ ᐅᔨᖅᑕᕆᔨᖅ ᐁᑎᑐ ᐁ ᒥᔪᐸᔪᖅ ᐁ ᐅᖅᑭ ᓂᐅᑎᖃᔪᑕᕆᔨᖅ ᑎᐅᖓᓐ

ᐁᐅᓂ ᐁ ᐅᑭᒪᐅᑦ ᐊᐃᒡᖅ ᓴᓪᓕ ᐅᑌ ᐁ ᐅᖅᑭ ᓂᐅᑎᖃᔪᑕᒪᖅᓯᖅ ᓂᖅᑕᐅᑭᖅᑳᓴᖅ ᐁᐅᓂ ᐃᓕ ᑲᐊᐹᖅᑲᖅᖃᖅ ᐁ ᐃᓚᓂᐅᐊᖅᑕᖅ ᐁ ᐃᓕ ᓂᐅᖅᑎᓂᐅᔪᓐᓇᖅᑐᖅ ᐃᓕᓴᐅᑎᓂᖅᓱᖅ ᐁᔪᓂ ᑲᓐ ᑲ ᐅᓐᖑᓂᐅᔪᖅᑕᖅ ᐊᓂᔪ ᑕᓐᓇᖅᑐᖅ ᐁ ᐅᓐᖑᓂᐅᔪᖅᑕᖅ ᐊᓂᑌ ᐅᖅᑭ ᐁ ᐃᓚᓂᐅᔪᖅᑕᖅ ᐊᓂᔪ ᐁ ᐃᓚᓂᐅᔪᖅᑕᖅ ᐃᓕᓴᐅᑎᓂᖅᓱᖅ ᐁᔪᓂ ᑲᓐ ᑲ ᐅᓐᖑᓂᐅᔪᖅᑕᖅ ᐊᓂᔪ ᐁ ᐃᓚᓂᐅᔪᖅᑕᖅ ᐊᓂᑌ ᐅᖅᑭ ᐁ ᐃᓚ

∇ ·Δ" ᑎᔭᓂᓪᓕᕆᓂ·ᑲᐤ" ∇ ᓂᑐ"ᐊᔨᓂ·ᑲᐤ" ᑫ·ᑲᓯ" ᐊᓂᑦ ᓀᓂ"ᓂ ᓂ"ᑦᐅᑭ"ᑭᕆᓂᓕᐣ

ᓴᓵ ᑦ ᑭᓵᑦᓂ ᐊᓂᒪᒪ ᒧᒪ"ᐊᒣᑦ ᐊᓂᓯ ∇ <"ᑲᓂᐱᑎ"ᖅ ᓀᓂ"ᓂ ᑫ·ᑲᓯ" ∇ ᓂᑐ"ᐊᔨᓂᔨ·ᑲᐤ" ᐊᓂᑦ ·ᐃᔨᑎᐱᐊᔨᔨᣲ ∇ᓯᐊ ᒪᐣ ᑲ ᒥᔭᖅ"ᖅ ᓂᐊ·ᑦᔭᓵ <"ᑲᓀ ∇ ᐃᑌᔪ"ᑦᐊᔨᓂ·ᑲᐤ" ᑫ·ᑲᓯ" ∇ ᓂᑐ"ᐊᔨᓂᔨ·ᑲᐤ"ᓵ ∇ᓯᐊ ᒪᐣ ᐅᓯ ᑲ ᐃᑎᔭᓵ"ᐊᖅ ᐊᓂᑌ "ᐊᑦᑦ ᓓᔪ ᑫ ᐅ"ᑭ ᓂᐃᑎᔭᓵ"ᑦᕆᓂᓕᐣ·ᑲᐤ" ᑫ ᑦ ᒪᔨᑐ"ᒥᔪᔨᓂᔨ·ᑲᐤ" ∇ ᔨᓵ·ᐊᑲᒥ"·ᑲᓂᔨᑌᓵ ᐊᓂᓵ ᒪᐣ ᓴᓵ ∇ ᑎᔭᓵ"ᕆᑯ"·ᑲᐤ" ᕆᓀ ∇ ᐊᑦ ᐃ"ᑎᔨ"ᑲᐤ" ᐊᓂᑦ ·ᐃᔨᑎᐱᐊᔨᔨᣲ, ∇ᐅᔨ ᓴᓵ ᑫ ᑦ ᓂᐃᑎᔭᓵ"ᑦᕆᒪᖅ ᕆᓀ ∇ ᐃᔭᐸ"ᕆᑦᓴ ᒪᒧᐅ ᑫ ᒥᔭᖅ ∇ ᒪᐅᑎᓵ"ᐊᐣᑲᐤ" ᐅ"ᑭ ᐊᓀ ᐊ ᐅᔭᕆᐸᔨᐃ·∇ᓴ ∇ ᔨᓵ·ᐊᑲᒥ"·ᑲᓂᔨᑌᓵᣲ

∇ᔨᓀ ᐅᓯ" ᑲ ᑲᓂ·ᐊᐸ"ᑕ"ᖅ ᔪᔭᐃ ᐊᓀᑐᓂᓯ ᑲᓄᑐ ∇ ᐃᔨ ᓂᑐ"ᔨᓂᔨ·ᑲᓴᓵ ᑫ·ᑲᓯ" ᐊᓂᑦ:

- ᑲᑎᑫᔨ ᓄᐃ"
- ᐃᓭ"ᑎᔨ ᐊᔭᑦ"ᔨᓭᐸ"ᑎᔨᑌ ᑲᔭ ·ᐃᓯᑦ
- ·ᐊᑦᕆᓭᑲᓀ ·ᐃᓯᑦ

∇ᔨᑦ ᒪᐣ ∇ <"ᑲᓭᐱᑎ"ᖅ ᐊᓂᓯ" ᒧᑲᓯ" ∇ ᓂᑐ"ᔨᓂᔨ·ᑲᓴᓵ", ∇ᔨ ᒧᖅ ∇ ᓂᑐᑭᑦᐅ"ᑕ"ᖅ ᑕ·∨ ᒧ ᑦ ·ᐃᑎ"ᐃ·∇<ᔨ"·ᑲᓴᓵ" ∇ᑲ ᒧ ᑦ ᐅᓭᒪᓴ ᐊᓂᑦ ∇ ᐅ"ᑭ ᓂᔪᑐᔨᓭᓀ"ᑌ ᐅ"ᑭ ᐊᓀ ᐊ ᐅᔭᑕ"ᑌ ᐊᓂᑦ ∇ ᑦᕆᓂᓕᐣ·ᑲᓭᓀ"ᑌ ᑲᑦ ᐸᔭᑎ"·ᑲᓂ"ᑌ, ∇ᔨᓀ ᔭᓵ ᒧ ᑦ ᓂᑐᑭᑦᐅ"ᑕᒪᓀ"ᑌ ᑕᓀ ∇ ᐃᔭᐸ"ᑕᔭᑲ ᒪᐅᑦ ᒧ ᒥᔭᖅ"ᑕᑲᓀ"ᑌ ᑲᑦ ᐊᓂᑦ ᐊᑦᕆᓂᓕᐣ·ᑲᓴᓵ", ∇ᔨᑦ

ᐁ ᑌᓵᐳᓗᓀᑲᓄᑦ ᓂᐩᑕᐅᑭᑦᑭᓴᓐ ᓂᐲ ᖃᓐᓂ ᒪᓕ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᐊᐸᑭᐩᑕᓗᓀᑦ

ᐁᓐᔪ ᒣᓴᓕ ᓂᕆᑎᓪᓚᐩᑕᓪᒥᒪᓗᑦ ᐸᓄᓚᑦ ᑲᔪ ᑲᖏᓪᒪᐃᓐ ᐊᓂᔨ ᐊᓗᑭᐤ ᖁ ᐃᔨᓂ ᓂᓪᑕᔪᓴᓀᑦ ᓂᓪᑕᐅᑭᑦᑭᓴᓐ ᐊᓐ ᓂᐲ ᖃᓐᓂ ᒪᓕ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᑌᓵᐳᓗᓀᑦᓯᓄ ᐸᔪᓄ ᐊᓂᔨᓪᓄ ᐁ ᐅᓪᐸᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᐊᐸᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᑌᓵᐳᓗᓀᑦᓯᓄ, ᐁᔨᓐᔪ ᐁ ᐸᑭᐱᓪᐃᓐᔪᑦ ᐊᓵᐊᓐ ᐁ ᐊᐱᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᓂᐲ ᐁ ᑌᓵᐳᓗᓀᑦᓯᓄ, ᐁᔨᓐᔪ ᒪᓕ ᐁᐊᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᐃᓪᐱᓪᓄ ᐊᓐᔪᑌᓵᑕᐳ ᐁ ᑌᓵᐳᓗᓀᑦᓯᓄᓚᓄ, ᐁᔨᓐᔪ ᒪᓕ ᐁᐊᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᐃᑕᐸᑭᑎᓪᓕᑦᓯᓄ ᐊᓂᔨ ᐱᓪᓄ ᑎᓵᔨᐤ ᐁ ᓂᑐᐳᓐᔪᓪᓄ ᐁ ᑎᖏᐳᓐᔪᓪᓄᑦᓯᓄ ᐊᓂᐲ ᓂᐩᑕᓗᓀᑦᓯᓄ, ᐁᔨᓐᔪ ᒪᓕ ᐁᖏᑎᓪᓕᑦᓯᓄ ᐊᓂᐲ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᐁᔨᓐᔪ ᒪᓕ ᐅᖏ ᓴᓐᓄ ᐁ ᒧᑎᐃᓐᔪᑦ ᐱᓪᓄᑐᓐᔪᓪᓄᑦ ᐁᔨᓐᔪ ᐳᖏ ᐁ ᓂᐩᑕᓗᓀᑦᓯᓄᓂᑎᓪᓕᑦᓯᓄ ᐊᓂᐲ ᐁ ᐃᓐᔪ ᐱᓪᓄᑐᓐᔪᓪᓄᑦᓯᓄᓚᓄ ᐊᓂᐲ ᐁ ᐃᓐᔪ ᐱᓪᓄᑐᓐᔪᓪᓄᑦᓯᓄ genes ᑲ ᐃᓐᓂᓪᑎᑌᓪᑲᓄ ᐊᓐᔪ ᐁᐅᓐᔪᓪᓄᑦᓯᓄ ᐁᐃᓐᔪᑦ ᐁᐅᓐᔪᓪᓄᑦᓯᓄ ᐁᐃᓐᔪᑦ ᐁᐅᓐᔪᓪᓄᑦᓯᓄ genes ᑲ ᐃᓐᓂᓪᑎᑌᓪᑲᓄ

ᐁ ᑌᓵᐳᓗᓀᓂᓪᐃᓄ ᓂᐩᑕᐅᑭᑦᑭᓴᓐ ᓂᐲ ᑭᖅ ᒪᓕ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᐁᐱᑭᐩᑕᓗᓀᑦᓯᓄ

ᐁᓐᔪ ᒪᓕᑲᓄ ᓂᐅᑎᓴᓪᒪᐃᓐᓚᓗᓄ ᐱᓪᓄᑐᓐᔪ ᑭᖅ ᑲᖏᓪᒪᐃᓐᔪ ᐊᓂᐳ ᐊᓪᓄᓀ ᓂ ᐃᓐᓂ ᓂᐅᑎᓪᓕᑦᓯᓄᓂᐃᓄᑦ ᓂᓪᑕᐅᑭᑦᑭᓴᓐ ᐊᓐ ᓂᐲ ᑭᖅ ᒪᓕ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᑌᓵᐳᓗᓀᓂᓪᐃᓄᑦᓯᓄ, ᐁᔨᓐᔪᑦ ᐁ ᐸᑎᐱᓪᐃᓐᔪᑦ ᐊᓵᐊᓐ ᐁ ᐁᐱᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᐁᐱᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᑌᓵᐳᓗᓀᓂᓪᐃᓄᑦᓯᓄ, ᐁᔨᓐᔪᑦ ᒪᓕ ᐁᐃᓐᔪᓪᓄ ᐊᓐ ᐃᓐᔪᑌᓵᑕᐳ ᐁ ᐁᐃᑭᑦᑕᐃᓐᔪᑦ ᐊᓂᐲ ᐁ ᑌᓵᐳᓗᓀᓂᓪᐃᓄᑦᓯᓄ ᐁᐅᓐᔪᑦ ᒪᓕ ᐁᐅᓐᔪᑦ ᐊᓂᐲ ᐁ

ᒋᓂᑌ ᖁ ᐃᔨ ᓂᑐ"ᔨᔨᓂ"ᖁᓄ"·ᑲᐤ" ᐊᓂᓱ" ᓂ"ᒋᐅᑭᓂᑭᑲᓄ" ᖁ ᐅ"ᑭ ᓂᑐᑎᖁᔨ"ᒋᓄᓂ·ᐃᐤ"

ᐁᓱᐟ ᑲ ᐃᒋᐸᑎᑭᒋᐟ ᐅᓂᓱᐃᓄᐟ ᐁᓂᓱᐃ ᐁᓂᓱᐃ ᖁ ᐊᓂᐃᓂᓱᐃᓄ" ᐊᓂᐃ ᓂ"ᒋᐅᑭᓂᑭᑲᓄ" ᖁ ᑭ ᐊᐸᑭ"ᒋᓄᓂᑲᔨ"·ᑲᐤ" ᐊᓂᑌ ᐁ ᐅ"ᑭ ᓂᑐᑎᖁᔨ"ᒋᓄᓂᑲᓄ" ᓂ"ᒋᐅᑭᓂᑭᑲᓄ"ₓ ᐊᓂᑌ ᐅᒋ"ᖏ ᑲ ᐃᔨ ᒥᔨᓂᒋᓄᖏ, ᐁᐅᓄ ᐁ ᐃᔨ ᐅᒋ"ᐃ·ᐊᐱᔨᖏ ᐃᔨᒥᓄ ᑭᐸ ᐃᔨᓂᒥᓄ ᓀ"ᒋ"ᖏ ᖁ ᑭ ᐃᔨᐱᔨᖏ ᐊᓂᐃᓄ ᓀᓱ ᒥᔭᑎ ᐊ ᐃ"ᑎᔨᓂᔨᓂᒪ"ᖏ ᑲᓀᐸᑲ ᐅᒥ"ᔨ"ₓ ᐊᐅᓄ ᐅᒪ"ᖏ ᐃᔨ ᐅᒥ"ᔨ"ₓ ᐁ

2. ᐁ ᓚᐅᖏᑐᓇ·ᑲᐤ ᓄᐤ ᑎᕿᐯᑲᖏᐞᑲᓄᓇ kg. ᐊᓂᔪ ·ᐞᔅᑭᒋᔨᔭᖏ ᐊᓂᑌ ·ᐃᕿᒣᔨᔭᖏᑦ ᐁ ·ᐞᑎᖏᐞᔨᑦ ·ᑲᓱᓗ ᖏᐞᐊᓱᓗᓇ ᐃᔨᒪ ᐁ ·ᐞᑎᖏᐞᔨᑦ ᐁᑲᐤᐤᓄᑦ ᐅᔪ ᓂᖏᐅᑎᒋᑲᓂᔪ ᐃᔨᒪ ᐁ ·ᐞᑎᖏᐞᔨᑦ

3. ᐁ ᓂᑐᖏᐞᓂᖏᑎᓄᑦ ᓂᔪᔨᓄ ᓂᖏᐅᑎᒋᑲᓂᖏᖅ ᐊᓂᑌ ᐞᓂᒥᓇᓂᖏᑦ ᐁ ᐞᑎᖏᐞᔨᑦ ᓂᖏᐅᑎᒋᑲᓂᖏᖅ:

- ᐞᓂᒥᓇᖅ
- ᑲ ᐊᐱᔅᓱᓄᑲᖅ ᐞᓂᒥᓇᖅ
- ᓂᔭᑎᒥᖅ
- ᑲ ᒥᔅᑲᖅ ᐞᓂᒥᓇᖅ
- ᓂᑎᐞᒥᖅ

ᑎᐟ ᓚᐟ ᑲ ᑭᔅᕿᑲᓇᖅ ᐁ ᓂᑐᖏᐞᓂᖏᑎᓇᖅ, ᐁᐞᑦ ᓇᓇᖅᐞ ᑲ ᐃᖏᑎᓇᖅ ᐁ ᐞᑐᑭᔨᑦᖏᕿᑲᓇᖅ ᐁᐅᐞ ᐁ ·ᐞᖅ ·ᐞᔨᐟᒋᑕᒪᖅ ᑦᐧᐱ ᑎ ᑭ ·ᐞᑎᖏᐞᔨᐟᐅᐟᑲᖅ ᐁ ᓚᔨᖏᕿᑲᓂᖏᖅ ᐁ ᑦᖏᐅᓂᖅ ᐞᑲ ᑎᐟᑲᖅ ᐁ ᑭᔨᐅᓇᓇᑲᓇᖅ, ᓄᔭᑦ ᓚᐟ ᑎ ᑭ ·ᐞᑎᖏᐞᔨᐟᐅᐟᑲᖅ ᐁᑲ ᑎ ᑭ ᐅᓇᑭᐟᔨᖅᐞᔨᐟᐅᑲ ᑎᑲᓇ ᐊᓂᑌ ᐱᖏᑦᓵ ᐅ ᓚᐟ ᐁ ᐞᔅᓂᑐᖏᑎᓇᖅᒋᒪᖅ, ᐁᐞᑦ ᓚᐟ ᐁᑐᖏᐞᓂᖏᑎᓇᖅᒋᒪᖅ, ᐁᐞᑦ ᓚᐟ ᐁᑎᑕ ᓚᐟᑲᖅ ᐁ ᑭᔨᐅᓇᓇᑲᓇᖅ

C. ᑎᐸᓕᒍᓂᓐᐃᑲᓴ ᐊᓂᑌ ·ᓭᔭᑎᕀ ᓪᐸ ᐁ ᐅᖃᐸᓕᖅ

(·ᐃ·ᐃᒪᒃᓂᐋᓂᒪ – ·ᒪᑯᐋᓂᒪ 2009)

ᐅᑎᖏ ᐁ ᐃᔅ ᓂᑐᑎᓕᓐᑕᒃᓄ·ᑲᓴᖏ ᓂᖏᑕᐅᑎᑎᑲᓴ, ᐁᑯᕀ ᐁ ᓂᑐᑎᓕᓐᑕᒃᓄᖓ ᐁᑲᖏ ᐁ ᑎᐅᑎᓕᓐᑕᒃᓄ·ᑲᓴᖏ ᐊᓂᔨᖏ ᓂᖏᑕᐅᑎᑎᑲᓴ ᑭᑯ ᐁ ᐃᐸᑎᖏᑕᒃᓄ·ᑲᓴᖏ ·ᐁᒥᔅᑎᑯᔨᓴᓰ ᓂᑐᖏᑯᔨᓴ — ᓄᔅᕀ ᑲᔮ ·ᕿᔅᑌ ᐁ ᑭ ᐃᔅᐸᓕᖏᓵ ᐅ ᒪᑲ ᐁ ᐃᔨ ᓂᑐᑎᓕᓐᑕᒋᒪᖏ, ᓄᓇᖏᑯ ᐃᔨ ᑯᔨ ᐁᑲᖏ ᑎᑯᴱ ᐁᐃᔨ ᑎᖏᑕᒃᓄᓵ ᐊᓴ ᓅᔅᒋᒪ ·ᐃᑯ ᐃᔨ ᑭᖏᑲᐃᑕᒋᒪᖏ ᐁ ᑭ ᐊᑕᖏᑕᒃᓄ·ᑲᓴᖏ ᐊᓂᔨᖏ ᓂᖏᑕᐅᑎᑎᑲᓴ ᐅᖏ ᐊᓴ ᐃᔨ ᐊᒥᑕᒃᓄᓵ ᐊᓴ ᑭᓴ ᑲᑕᖏ ᐁᑲᖏ ᐃᔨ ·ᐃᖏ ᓂᑐᑎᓕᐃᒋᒪᖏ ᐊᓂᑌ ᐃᖏᑕᐅᑎᑎᑲᓴ ᐊᓂᔨᖏ ᓂᖏᑕᐅᑎᑎᑲᓴ ᐅᖏ ᐊᓴ ᐁᐃᔨᖏᑕᒃᓄᓵ ᐊᓴ ᐁᐃᔨᖏᑕᒃᓄᓵ

ᓂᑐᐃᓕᓐᓄᑦ ᐅᐅᓄ ᐊᓐ ᑲ ᓂᑐᑎᑭᓕᕆᓂᖅ ᐊᓐ ᐅᑎᑐ ᐅ ᒪᕐᓄ·ᐋᑲᒪᓴ ᐅ ᑭ ᐃᓴ·ᓴᐳᖅᓀᐊᑯᓂᖅ ᓂᑦᑕᐅᑎᑭᑲᓐᓄᑦ ᐋᖅᑭᓐᓄ ᑫ·ᑲᓐ ᑫ ᑭ ᐃᕐᐸᓕᖅ ᐅ ᐃᓂ ᑕᖅᑲᐃᖅᓯᓕᖅᓄᑦ ᐅᐅᓄ ᓴᓐ ᑲ ᓂᑐᑎᑭᓕᕆᓂᖅ ᑲᑎᑫᐳᓄ ᑲᔪ ·ᐃᓴᕐᐳᓄᑦ ᐅᐅᓄ ᑲᔪ ᒣ·ᑲᓴ ᐅ ᓂᑐᑎᑭᓕᕆᓂᖅ ᑲᖅᑎᒋᔨᓐᓂᖅ ᐅᐅᓄ ᒪᓐ ᐅ ·ᐋᐸᑎᒪᖅ ᐅᑎᐃ ᑕᕐᑕᐃ ᐅ ᓂᑐᐃᓴᐳᓄᑦ ᐅᑎᐃ ᐅ ᑭᖅᑐᐃᓴᐳᓄᑦ ᐅᑎᐃ ᐅ ᐅᓂᐳᓄᑦ, ᐅᐅᓄ ᐅᑎᐃ ᐅ ᐃᔨᓴᓄᑦ ᑫ ᐅᑎᐃ ᑭᖅᑐᐃᓴᐳᓄᑦ ᐅ ᐃᔨᓴᓄᑦ ᐊᑐᓂᖅ ᐅᑎᐃ ᐅᑎᐃ ᐅᑭᓐᓄᑦ

ᑕᖅᑲᐊᒃᓴᓪᓗᒍ ᐊᓐ ᐃᓄ ᖁᓄᓐ ᐁ ᓂᑐᖅᓯᓚᐅᖅ ᐁᑲ ᑭᓚᐅᓕ ᐁ ᐃᖅᑎᓂᖅ ᐊᑎᑌ ᒥᖅᓂᖅ, ᐁᐅᓄ ᓇᑲᑎᓂᒃᑯᖅ ᐁ ᑭ ᐅᑭᐃᓐᓂᒃ ᐊᐸᑎᓂᒃᑯᖅ ᐁ ᑭ ᐅᑭᐃᓐᓂᒃᑯᖅᓂᒃ ᐊᐸᑎᓂᒃᑯᖅ ᐁ ᑭ ᐅᑭᐃᓐᓂᒃᑯᖅ ᐁ ᑭ ᐅᑭᐃᓐᓂᒃᑯᖅᓂᒃ ᐊᐸᑎ

ᒪᓕᓇ"ᐋᑲᓄ" ∇ ·ᐊᐸ"ᑎ·ᐊᓀ"·ᑲᐤ"

ᐅᑭ ∇ Δ"ᑦ·ᑦᐤ ᐊ·∇ᓂᑭ ∇ ᐊᐸᑎᓕ·ᑦᐤ ∇ ᓂᐃᑭᔭᒥᑦ"·ᑲᐤ" ᓂ"ᑦᐅᑭ"ᑭᑲᓄ", ∇ᓱᕇ ᒉ ·ᐊᐸ"ᑎ·∇·ᑦᐤ ᒪᓕᓇ"ᐋᑲᓄ" ∇ ·ᐊᐸ"ᑎ·ᐊᓀ"·ᑲᐤ" ᒣ·ᑲᓴ ∇ ᓂᔅᑐ·ᐋᓭᓀᖅᓴ ·ᐊᐱძᓂᐋᓕᒪ ∇ Δᔭᐸᔪ"ᓴ ᐊᓄ ᓄᔅᑕᒪ ᒪᓕᓇ"ᐋᑲᓄ", ∇ᐅᕇ ᐊᓄ ∇ ᒪᓕᓭᑌᓴ ᑦᓄ ∇ ᐋᔨ ᑦ"ᐃᒉᔭᒥ"·ᑲᐤ" ᓂ"ᑦᐅᑭ"ᑭᑲᓄ" ᐊᓂᑌ ∇ ᐊᐸᑎᓕᒪᒪᓴ ∇ᓀᓴᐃᔪᔭᓴ ᐊᓂᑌ ᐋ"ᑭᓱ ᑲ Δ"ᑎძᒥ·ᑲᐤ"ₓ ᐊᓄ ᑭᓄ ძᑦᑲ, ∇ᐅᕇ ∇ ᒪᓕᓭᑌᓴ ᑦᓄ ᒉ ᐃᔨ ᑦ"ᑲᐃᒉᔭᒥ"·ᑲᐤ" ᓂ"ᑦᐅᑭ"ᑭᑲᓄ" ᒉ ᐋ"ᑌᐸᒥ"·ᑲᐤ" ᔨᑦ·ᐊᑲᒥ"·ᑲᐤ" ᓂᑐ"ძᔭᓄ" ᐊᓂᑌ ᐋ"ᑭᓱₓ ᐅᓱᒥ" ᒪᓄ ᒪᓕᓇ"ᐋᑲᓄ", ∇ᐅძᓄ" ᐅᓱᒥ":

- ᑭᑲ ᑭ ᓄᑲ"ᐃᒉᐸᒥᐊ ᓂ"ᑦᐅᑭ"ᑭᑲᓄ" ∇ ᑭ ᑎ·ᑦᐳ"ᒉᓂ·ᑲᐤ" ᐅ"ᑭ ᐊᓄ ∇ ᐃᔨ ᐊᐸᑎᓭᒪᑲᖏ Cytochrome P450 3A4 ᐊᓄ ᑲ Δ"ᑎძᖏ ᐊᓂᑌ ᐋ"ᑭᓱ? ᐅ ᒪᓄ ᒪᓕᓇ"ᐋᑲᓄ, ∇ᐅძ ᒉ ·ᐊᐸ"ᑎ·ᐊᓀ"·ᑲᐤ" ᐊᓂᑌ ∇ ᓂᔅᑐ·ᐋᓭᓀᖏ ᓂᑐ"ძᔭᓄ" ∇ ᐊᔨᒪᑦᑲᓀ"ᖏ, ·ᐊᐱძᓂᐋᓕᒪ June 3-6, 2009ₓ ∇ᓱᕇ ᑲ ᐅᓂ"ᑦᐸᑦ ᑎᓭᓴ ᑦᒪ, ᓭᑦ ᓴᑦ, ᐱᔪᖅ "ᐊᑦᑦ, ·ᐞᓄ ᐊᖅᓭᓕᓂᓄ, ᑲᔾ ᐸᖅᔨᓄ ·ᓵᔅᑎᖅₓ
- ᐯᓴᕇ ᐋᓭᓀ ᓂ"ᑦᐅᑭ"ᑭᑲᓄ ᓂᑐ"ძᔭᓄ ᑦ"ᑲᐤ" ᑦᐸᑎᓕᒪᖏ ᐊᓄ ∇ ᐋᔨ ᐱᒥ<ᔭ"ᐋᓕᒪᑲᖏ Caco-2 cells ᑲ ᐋᔨᓂ"ᑲᑌ"·ᑲᐤ" ᒉ·ᑲᓴᕇ" ᐊᓂᑌ ᐋ"ᑭᓱₓ ∇ᐅძ ᐅ ᓴᐸᑎ ᒉ ·ᐊᐸ"ᑎ·ᐊᓀ"·ᑲᐤ" ᐅ ∇ ᓂᔅᑐ·ᐋᓭᓀᖏₓ ∇ᓱᕇ ᐅᓱᕇ ᑲ ᐅᔨ"ᑦ·ᑦᐤ ᐅᑲ·ᑭᑦᐅᑭᑲᖏ, ᒪᑲ·ᑦᓭᓂ, ·ᓵᐯᔪᑾ, ᒧ"ᐊᒧᒪᑦ, ·ᐊᑦᔅᑐ-ᑦᔪᑦ, ᓭᓕᒪ, ·ᓵᔅᑎᖅ, ᑲᔾ ᐊᖅᓭᓕᓂᓄₓ

∇ᐅძ ᐅ ᐊᐱᔨᔅ ∇ ᒪᓕᓭᑌᓴ ᐅ"ᑭ ᐊᓄ ∇ᑎᑐ ᒥᔅᑕ"ᐋ ᑲ ᒪᓕᓭᑌᓴ ᑎᐸᑦᒧᓕᓇ"ᐋᑲᓄ ᑲ ᒪᓕᓇ"ᐋᑲᓭᓂᐋᖏ ᐊᓂᑌ ·ᓵᔅᑎᖅ ᓴᐸ ∇ ᐅ"ᑭ ᓂᑐᑦᔭᔪᔅᑎᐸᓭᑦᑲᓭᓀ"·ᑲᐤ" ᓂ"ᑦᐅᑭ"ᑭᑲᓄ"ₓ

ᒥᓕᓂ"ᐋᑭᓄ" ᐊ ·ᐊᐱ"ᑎ·ᐊᓂ·ᐃᖏ"

ᐅᑭ ᐊ Δ"ᑦᑲ ᐊ·ᐊᓂᑭ ᐊ ᐊᐱᑎᒧᑲ ᐊ ᓂᑐᑦᔪᔭᒥᑎᖏ" ᓂ"ᑦᐅᑭ"ᑭᑭᓄ", ᐊᓱ·Δᵈ ᔪ ·ᐊᐱ"ᑎ·ᐊᑲ ᒥᓕᓂ"ᐋᑭᓄ" ᐊ ·ᐊᐱ"ᑎ·ᐊᓂ·ᐃᖏ" Ꮖ·ᑲᓴ ᐊ ᓂᔅᑐᔭᓭᓂ·ᐃᖏ ᒧᑐᑲ"ᐅᐊᒧᒪ ᐊ ᐃᔪᐱᖏₓ ᐊᓄ ᓭᔅᑎᒪ ᒥᓕᓂ"ᐋᑭᓄ", ᐊᐅᕇ ᐊᓄ ᐊ ᒥᓕᓭᑌᓴ ᑦᓄ ᐊ ᐃᐱ ᑦᑲ"ᐃᐅᐊᔪᖏ" ᐊᓂᑌ ᐊᐱᑎᒧᒥᑭᖏ ∇ᓀᓴᐃᔪᔭᒥ ᐊᓂᑌ ᐊᐱᑎᓕᒪᑲᖏ ᐊᓂᑌ ·ᓵᔅᑎᖅ ᓴᐸ ᐊ ᐅᑭ ᓂᔅᑐᔭᓭᓂ·ᐃᖏ ᐊᓂᑌ ᐊᐱᑎᓕᒪᑲᖏ ᐅᑭ ᐊᓄ

D. ᑎᕿᑭᒍᓂᖅᐊᑲᓐ ᐊᓂᑌ ᐯᓂᑦ ᐁ ᐅᖅᑭ ᓂᑐᑎᓴᖅᑕᒃᓱᓐᓄᐤ ᓂᖅᑕᐅᑎᑭᓇᓐ ᐁ ᐅᖅᑭᕿᓴᖅ
(ᐅᐊᐅᐊᒪᓂᐊᓕᒡ – ᐅᒧᐊᓕᒡ 2009)

ᐁ ᑎᕿᑐᑌᓄ

ᐅᑌ ᐁ ᐅᖅᑭ ᓂᑐᑎᓴᖅᑕᒃᓱᓐᓄᐤ ᓂᖅᑕᐅᑎᑭᓇᓐ, ᐁᐅᓂ ᐁ ᐊᔪ ᓂᑐᑎᓴᐊᑕᒃᓱᓐᓄᖅ ᑕᐅᐯ ᖁ ᑭ ᐅᐊᑎᖅᐊᐅᐊᕿᓴᐅᓐᓄᐤ ᐊᓂᓕᐤ ᓂᖅᑕᐅᑎᑭᓇᓐ ᐁᒃ ᖁ ᑭ ᐅᓴᒪᓐ ᐊᓂᑦ ᐁ ᐅᖅᑭ ᓂᓕᑐᓕᓴᓐᓄᖅ ᐊᓂᓕᓐ ᐁ ᐅᔅᑎᑦᓂᖅᐊᓯᓂ ᐊᑐᐅᓂ ᐁ ᔪᓕᐊᑲᒥᓐᓄᖅ ᐊᑐᓕᓐ ᓴᔅᓄ ᓅᓐᑕᓄᖅ ᓴᔅᓄ ᐊᔅᐱᒥᓄᖅ ᐁ ᐃᓐᑎᓯᓂᓴᓄ ᐊᑐᐁᓂ ᓄᐊᓕᔪ ᐅᒥᓄᖅ, ᐁᓯᑦ ᖁ ᑭ ᐅᓴᒪᓂᓴᓄ ᐊᑐᐁᓂ ᐊᓂᑦ ᐁ ᐅᖅᑭ ᓂᓴᓓᓂᖅ—ᐁᐅᓯ ᐅ ᐁ ᐃᔅᐱᓴᑦ ᐊᑐᐁᓂ ᐁ ᔪᓕᐊᑲᒥᓐᓄᖅ ᐊᓂᓕᓐ ᐃᓐᓇᒃ ᐁ ᐅᖅᑭ ᓂᓴᓓᓂᖅ, ᐁᓯᑦ ᖁ ᑭ ᐅᓴᒪᓂᓴᓄ ᐊᑐᐁᓂ ᐊᓂᓕᓐ ᐁ ᐅᖅᑭ ᓂᓴᓓᓂᖅ—ᐁᐅᓯ ᐅ ᐁ ᐃᔅᐱᓴᑦ ᐊᑐᐁᓂ ᐁ ᔪᓕᐊᑲᒥᓐᓄᖅ ᐊᓂᓕᓐ ᐃᓐᓇᒃ ᐁ ᐅᖅᑭ ᓂᓴᓓᓂᖅ, ᐁᓯᑦ ᖁ ᑭ ᐅᓴᒪᓂᓴᓄ ᐊᑐᐁᓂ

- ᐊᖏᑦᑐᖅ ᐁ ᐊᒡ ᓂᖏᑕᐅᑦᑕ ᐊᓐ ᒥᔅᑎᓂᓄ, ᐊᓂᑌ ᐯᓪᓚᓄ ·ᐃᓂᐯᔪᖏᖅ ᓄᔅᑦ ᒪᒃ ᓅᖏᑭᖅᖅ (·ᐊᑦᓴᖏᐃᓱᓂᔅ ᓄᔅᑦ ᒥᔅᑎᓯᓗ)
- ᐊᖏᑦᑐᖅ ᐁ ᐊᒡ ᓂᖏᑕᐅᑦᑕ ᐊᓐ ᒥᔅᑎᓄ, ᐊᓂᑌ ᒪᔅᖁᔪᖏᖅ ᓄᔅᑦ ᒪᒃ ᐸᔪᖅ
- ᑕᓐ ᐁᑎᑐ ᖁ ᒥᔪᐸᔭᖅᖅ ᐁ ᓂᑐᖏᔭᓂᖏᓓᓄᖅᖅ, ᐁᐅᔪ ᐊᓐ ·ᐃᔨᑭᖅ, ᓄᔅᑦ ᐊᔅᑕᖏᔪᓐ, ᓄᔅᑦ ᒪᒃ ᐅᔅᖁᔪᔅ

ᐊᓂᔨ ᑲ ᓂᐁᑭᔭᖏᑕᖏᓱ ᐊᔅᓯ, ᐁᔨᔪ ᑲ ᒥᔪᔪᐊᖏᑦᑕ ᒥᔪᐅ ᐊᓐ ᐁ ᐃᔪᓇᔪᔪᑦ ᐃᓇᖏᑎᔪ (ᐊᔅᑕᖏᔪᓂᓄ, ᐅᔅᖁᔪᔅ, ᑲᔭ ·ᐃᔨᑭᖅ) ᐁ ·ᐃᑭᖏᐃ·ᐁᐸᔭᖏᖅ ᖁ ᐅᖏᑭ ᓇᑲᑐᐊᖅᑕᒧᒪᑲᖏᖅ ᐁᑲ ᖁ ᑭ ᐅᓇᒪᖏᖅ ᐊᓐ ᐁ ᐅᖏᑭ ᓂᔪᑐᔪᓇᓇᓄᖏᖅ ᐊᓐ ᓇᔅᓴ ᐃᔅᐱᒥᖏᖅ ᐁ ᐃᖏᑎᔪᖏᖅ ᓀᑲᑲᓂᓐ ᐊᓐ ᐅᔅᖁᔪᔅ ᑲᔭ ·ᐃᔨᑭᖅ, ᐁᐅᔪ ᐁᑎᑐ ᒥᔅᑎᓇ ᐁ ·ᐃᑭᖏᐃ·ᐁᐸᔭᖏᖅ, ᐃᔅᐱᔪᔪ ·ᐃ ᐊᓐ ᐊᔅᑕᖏᔪᓂᓄᖅᖅ ᑭᐸ ᑲ ᔪᔅᔪᖏᐃᔪᑲᖏᖅ ᐅᓪ, ·ᐁᓂᓂ ·ᑫᔅᑌ ᐃᓂᓇᔪᓂ ᐊᓐ ᒥᓇᖏᐃᓂᖅᖅ ᐁᐅᔪ ᐊᓐ ᐅᔅᖁᔪᔅ ᑲᔭ ᐁᐅᔪ ᐊᓐ ᐅᔅᖁᔪᔅ

ᐊᓂᑌ ᐊᐟᓭᓯᓐ ᓵᓪ ᐁ ᐅᖃᑉ ᓂᑐᑎᓴᖃᒋᓭᒪᓐᓂᑯᓐ ᓂᖃᒋᐅᑎᑉᑭᓂᓐ, ᐁᐅᓄ ᐁ ·ᐃᓐ ᑎᕀᓴᖃᑕᒻᒪᓐ ᕀᓂᖅ ᐁ ᐃᖃᑎᓄᓐ ᐁ ᓂᑐᖃᓄᓐᓂᑯᓐ ᐊᓂᑉ ·ᐃᓭᐟᑎᓐ, ᐅᔭᓀᖁᔪᓂᓐ, ᑲᔪ ᐊᔭᒋᓄᓂᑌ ᐅ ·ᐁᓐ ᐃᕀᓯᓴᐃ·ᐁᓐᓵ ᐁᐅᓄ ᑲ ·ᐊᐸᖃᑕᒻᒪᓐ ᐊᓄ ·ᐃᓭᐟᑎᓐ ᑲᔪ ᐅᔭᓀᖁᔪᓂᓐ ᐁᐅᓄ ᓵᓪᑕᖃᐃ ᐁ ᐃᖃᑎᓄᓐᓂᑯᓐ ᕀᔭᓐᓂᑯᓐ ᐁ ᐃᖃᑎᓄᓐᓂᑯᓐ ᐸᕀᓐ ᖁᓀᑲᓐ ᐁ ᐃᓐ ᓂᖃᒋᓄᓄᓐᓂᑯᓐ ᐃᔭᓐᓂᑯᓐ ᐁᐅᓄ ᐁᐅᓄ ᐁᐅᓄ

ᐱᒋ ᐃᖏᑎᓂᓐ ᐊᓂᑦ ᐁ ᐅᖏᑉ ᓂᓯᑐᓯᓀᓇᖅᓴᖏᑦ, ᐁᐅᓂ ᐅ ᐁ ·ᐃᑭᖏᐃ·ᐁᐸᔪᖏᑦ ᖁ ᑭ ᐊᓀᐸᔪᖏᑦ ᖁ·ᑲᓐ ᖁ ᐃᔾ ᑭᕐᓂᖏᑕᒪᓚᖏᑦ ᐊᓂᑌ ᐱᖏᓱᓵ ᐅ ᒪᐅ ᖁ·ᑲᓐ ᐁ ᐊᓀᐸᔪᖏᑦ ᖁ ᐅᖏᑉ ᑭᕐᓂᖏᑕᒪᓚᖏᑦ ᐊᓂᑌ ᐱᖏᓱᑦ, ᐁᐅᓂ ᐁ ·ᐃᖏᑕᒻᒪᓚᖏᑦ ᐊᖏᑲᑦᐳᓂᓐ ᖁ·ᑲᓐ ᐊᓂᑌ ᐱᖏᓱᑦ—ᐸᕐᑦ ᒪᐅ ᒥ·ᑲᐣ ᐁᓂ ᒪᐅ ᐸᕐᑦ ᓄᒪᐃ ᒥ·ᑲᐣ ᐊᓂ ᒪᐅ ᑭ·ᐃᐹᒥ·ᑲᓄᖏᑦ, ᐊᖏᑦ ᐁ ᐃᑕᕐᐱᐃᓂᓐ ᐱᒋ ᐊᓂᑦ ᐁ ᐅᖏᑉ ᓂᓯᑐᓯᓀᓇᖅᓴᖏᑦ ᐁᐅᓂ ᐅ ᒪᐅ ᑭᖏᑲᓂᓐᓄᐃᖅᓴᖏᑦ ᐊᓂᑌ ᐱᖏᓱᑦ, ᐁᐅᓂ ᐅ ᐁ ᐊᓀᐸᔪᖏᑦ ᖁ·ᑲᓐ ᐁ ᐁᐅᓂ ᐅ ᐁ ᐊᓀᐸᔪᖏᑦ ᐁᐅᓂ ᐅ ᐁ ᐅᖏᑉ ᓂᓯᑐᓯᓀᓇᖅᓴᖏᑦ

ᐊᐱᓂᔪᐢᓴᖅ ᐅᑎᖏᑕ·ᑲᑲᓂᓱᐲᐱᖅᓵ ᐁᓴᓂ ᒣ·ᑲᑉ ᐱᒋᐸᔨ ᐅ ᐁ ᐃᔪ ᓂᑐᑎᓴᓂᕐᑕᒪᓂᓚ

ᐁ ᐁᑲᓄ·ᐊᔨᖏᑕᒪᓂ ᑯᓴ ᐁ ᐃᔪ ᐊᑦᑲᖏᐃᖅᓂ ᑲᑎᕐᒪᓂ ᐁ ᐅᖏᑕ ᓂᔪᕐᓄᓂᔪᓄᑦᓂ

ᐊᓴ ᒪᐢ ᑲ ᓂᑐᑎᓴᓂᒪᒪᖏᓂ·ᑯᓴ ᐊᐱᓂᔪᔪᓂᓚ, ᐁᐅᓂᓴ ᑲ ·ᐃᖏᑕᒪᓂᒃᖏᓂ ᓴᓂ ᐱᒋ ᓴ ·ᐊᔨᐊᖏᑎᒪᖏᓂ ᐊᓴ ᐁ ᐅᖏᕈ ᐊᐧᐅᐱᔨᓂ ᓴᑲᓴ ᐁ ·ᐃᖏᑎᒪᓴᒥᖏᓂ ᐊᓂᔪ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂᓚ ᐊᓴ ᒪᐢ ᐊᔨᓂ ᐁ ᐃᖏᑎᓂᒃ ᐱᖏᓂ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᐁ ᐃᔨᐱᔨᓂ ᐁ ᐊᑎ ᐅᓇᑎᖏᓂ ᐊᓂᔪ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐊᐱᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂᓚ ᐁ ᐃᔨᐱᔨᓂ ᐁ ᐊᑎ ᐅᓇᑎᖏᓂ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᐁ ᐃᑕᔨᖏᑎᒪᖏᓂ ᐊᔨᓂᓗ ᐁ ᐃᔨᐱᔨᓂ ᓗᑲᓴ ᐁᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᐱᒋ ᐁ ᐅᖏᕈ ᐊᐧᐅᐱᔨᓂ ᐁ ·ᐃᖏᑎᒪᓴᒥᖏᓂ ᓗᑲᓴ ᐁᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᑕᑕᐅᓗ ᐁ ᐃᖏᑎᓂᒃ·ᑲᓂᓴ ᒪᐢ ᐁᐱᖏᑎᒪᖏᓂ ᐁ ᐃᖏᑎᓂᒃ ᐊᓴᔨᓂᓗ ᐁ ᐱᖏᑎᒪᖏᓂ ᐁ ᐊᑎ ᐅᓇᑎᖏᓂ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐊᐱᓂᔪᔪᓂᓚ ᐁ ᐃᑕᔨᖏᑎᒪᖏᓂ ᓗᑲᓴ ᐁᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᐱᒋ ᐁ ᐅᖏᕈ ᓂᔪᔪᓂᓄᑦᓂ·ᐃᓂ, ᐁᐅᓂᓴ ᐁ ᐃᖏᑎᒪᖏᓂ

ᓂᑐᐢᔨᓐ ᐁ ·ᐃᑭᐢᐃ·ᐁᐸᓂᐢᓴ ᐁᑲ ᓱ ᑭ ᐅᓀᒡᑕᐢᓴ ᐁ ᐅᐢᑭ ᓂᔨᑐᔨᓀᓄᐢᓴ ᐊᓂᑦ PC12 ᓴᑦᓴ ᐅᐢᑭ ᐊᓐ ᓃᑲᐣ ᐁ ᐃᓴᐸᓂᐢᐃ·ᐁᐢᓵ”

ᐁᔪᔨ ᐅᔪ ᑲ ᒪᔨᓀᐢᐊ·ᑲᐣ ᐊᖏᓀᔨᓐ ᑲᔪ ᐯᓂᑦ ᓀᑦᓵᒪ ᐁᔨᑌ ᑲ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐊᓂᑭ ᑲ ᐊᒻᔪᐢᑕᑐᓀᐢᐊᒡᒥᑦ·ᑕᐣ ᐁ ᓂᑐᑎᓂᐢᑕᓀᑕᑐᓀᐢ ᑎ·ᑲᔪ ᐱᓀᖏᐅᐃᔨᓗ 2008 ᑲ ᐃᖏᐸᓂᐢ, ᐁᔨ ᐃᐣ ·ᐃ·ᐃᒪᑲᓂᐃᔨᓗ 2009 ᑲ ᐃᖏᐸᓂᐢ ᐁᔨᑦ ᑲ ᓂᖏᔪᐃᓀᐢᐊᒡᒥᑦ·ᑕᐣ ᐊᐸᑎᓂᔨᒡᑲᑕᒡᒪᓕ ·ᑲᓇ "ᐊᓇᖏ ᓱ ᒪᔨᓀᐢᐃᑲᓀᐢᓴ ᐅᔪ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᑲᔪᔨᓂᐣ ᐊᓐ ᒪᐣ ᐊᐱᐢᓵ ᐁ ᒪᔨᓀᐢᐃᐅᑌᐢ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ, ᐁᐅᔨ ᐊᓐ “ᓂᑐᔨᓀᐢᐃ” ᐁ ᐃᐢᑎᔨᒡᑲ” ᐊᓂᑦ ᐊᐳᑲᑕᐢᒥᓴ ᐁ ·ᐃᑭᐢᐃ·ᐁᐸᓂᐢᓴ ᐁᑲ ᓱ ᑭ ᐅᓀᒡᑕᐢᓴ ᐁ ᐅᐢᑭ ᓂᔨᑐᔨᓀᓄᐢᓴ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ

2. ᐊᓐ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᑲ ᒪᔨᓀᐢᐊᒡ·ᑲᐣ "ᐊᓇᖏ ᑲᔪ ᐅ·ᐃᐞᑎᐸᑭᒧᒪᑲᓐ", ᐁᔪᔨᑌ ᐊᓂᑦ “ᓂᐢᑕᐅᑭᐢᑭᑲᓐ ᓂᑐᔨᓀᐢᐃᑲᓐ ᐁ ·ᐃᑭᐢᐃ·ᐁᐸᓂᐢ·ᑲᐣ ᐁᑲ ᓱ ᑭ ᐅᓀᒡᑕᐢᓴ ᐅᑎᐢᐸ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ

ᐅ ᐞᐣ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ, ᐁᔪᔨᑌ ᐅᔭᓂ ᑲ ᒪᔨᓀᐢᐃᑲᓀᐢᐊᒡᒥᑦ ᐊᓂᑌ ᐯᓂᑦ ᓀᑦᓵᒪ ᐱᓀᖏᐅᐃᔨᓗ ᑲ ᐃᖏᐸᓂᐢ ᑭ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐁ ᓂᑐᑎᓂᐢᑕᓀᑕᑐᓀᐢ ᑎ·ᑲᔪ ᓱ ·ᐊᔪᐊᐸᐢᑕᒡᒥᑦ·ᑲᐣ, ᐁᔪ ᐞᐣ ᐃᐣ·ᐃᒪᑲᓂᐃᔨᓗ ᑲ ᐃᖏᐸᓂᐢ ᑭ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐁ ᓂᖏᔪᐃᓀᐢᐊᒡᒥᑦ·ᑕᐣ ᐁᑲ ᓱ ᑭ ᐅᓀᒡᑕᐢᓴ ᐅᑎᐢᐸ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ

ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᐊᓂᑌ ᑲ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑲᐣ ᔪᔨᑕᐣ ᑎᐸᑭᒧᔨᓀᐢᐃᐣ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᒥᔨᐢᑌᓀᑦᑕᒡᓴ ᓱ ᐅᐢᑭ ᒪᔨᓀᐢᐃᑲᓀᐢᐊᒡᒥᑦ·ᑲᐣ

ᓄᓇ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᐃᐢᑎᔨᒡᑲᓐ ᐁ ᑭ ᐃᑎᔂᐢᐊᒡᒪᓴ ᐊᓂᑌ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᑲ ᒪᔨᓀᐢᐃᑲᓀᐢᐊᒡᒥᑦ·ᑲᐣ ᒥᔨᐢᑌᓀᑦᑕᒡᓴ, ᒥᔪ ᔨᐅᑭᔪ ᓱ·ᑲᔪ ᑭ ᐅᓀᒡᑕᐢᓴ ᐅᑎᐢᐸ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ:

ᐅᐢᑭ ᓂᖏᔨᓀᓄᐢᐃᑲᓐ ᐊᓂᑦ PC12 ᓴᑦᓴ ᐅᐢᑭ ᐊᓐ ᓃᑲᐣ ᐊ ᐃᖏᐸᐢᐃ·ᐊᖏᓵ”

ᐊᔪᐢᐃᓐ ᐅᑦ ᑲ ᒥᔨᓂᐢᐊᓀᐢᓴ ᐊᖏᓴᓀᔨᓐ ᑭᑦ ᐯᓂᑦ ᓀᑦᓵᒪ ᐁᔨᑌ ᑲ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐊᓂᑦᑭ ᑲ ᐃᑎᔂᐢᐊᒡᒪᓴ ᐊᓂᑌ ᑲ ᓱ ᑭ ᐊᓐᐃᐢᐃᑲᓐ ᐊ ᓂᑐᑎᓂᐢᑕᓀᑕᑐᓀᐢ ᐊᓂᑌ ᑲ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐁ ᓂᑐᑎᓂᐢᑕᓀᑕᑐᓀᐢ ᑎ·ᑲᔪ ᐱᓀᖏᐅᐃᔨᓗ 2008 ᑲ ᐃᖏᐸᓂᐢ, ᐊᔪᐢᐃᓐ ᐃᐣ ᑭᖏᓀᔨᓂᖏᔪᐃᓀᐢᐊᒡᒥᑦ·ᑲᐣ 2009 ᑲ ᐃᖏᐸᓂᐢ ᐊᔪᐢᐃᓐ ᑲ ᓂᖏᔪᐃᓀᐢᐊᒡᒥᑦ·ᑕᐣ ᐃᐣ·ᑲᔪ ᐊᐱᐢᓵ ᐁ ᓂᑐᑎᓂᐢᑕᓀᑕᑐᓀᐢ ᐅᔪ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᐁ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑕᐣ ᐁᑲ ᓱ ᑭ ᐅᓀᒡᑕᐢᓴ ᐅᑎᐢᐸ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ

ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᐊᓂᑌ ᑲ ᐃᑎᔂᐢᐊᒡᒥᑦ·ᑲᐣ ᔪᔨᑕᐣ ᑎᐸᑭᒧᔨᓀᐢᐃᐣ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᒥᔨᐢᑌᓀᑦᑕᒡᓴ ᓱ ᐅᐢᑭ ᒪᔨᓀᐢᐃᑲᓀᐢᐊᒡᒥᑦ·ᑲᐣ

ᓄᓇ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᐃᐢᑎᔨᒡᑲᓐ ᐁ ᑭ ᐃᑎᔂᐢᐊᒡᒪᓴ ᐊᓂᑌ ᑎᐸᑭᒧᔨᓀᐢᐃᑲᓐ ᑲ ᒪᔨᓀᐢᐃᑲᓀᐢᐊᒡᒥᑦ·ᑲᐣ ᒥᔨᐢᑌᓀᑦᑕᒡᓴ, ᒥᔪ ᔨᐅᑭᔪ ᓱ·ᑲᔪ ᑭ ᐅᓀᒡᑕᐢᓴ ᐅᑎᐢᐸ” ᑲ ᐃᔨᓂᐢᑲᑌᓀᓂ:

PAPERS THAT THE ELDERS AND HEALERS HAVE AGREED CAN BE PUBLISHED

The elders and healers have reviewed four articles and said they are OK. We can now get ready to publish them. The articles are:

1. A paper by Arnason, Bennett, and others titled “Bioassay guided isolation of neuroprotective constituents of sarracenia purpurea, a Cree medicinal plant that inhibits glucotoxicity in PC12 cells.”

   This paper was done by the Arnason and Bennett labs. We sent it to the Research Committee in September 2008, and it was approved in January 2009. Cory Harris is now getting ready to publish it. The plain-language summary is called “Ingredients in pitcher plant that protect against nerve damage.”

2. A paper by Harris and others titled “Flavonoids as novel inhibitors of platelet activating factor-mediated neuronal death.”

   This paper was mostly done in the Bennett lab. It was sent to the Research Committee in September, and approved in January. Steffany Bennett is now getting it ready for publication, and adding some new information provided by Katy Morin. The plain-language summary is called “Plant ingredients and protection of brain cells.”

1. ᑎᐸᒋᒍᓂᐦᐃᑲᓄ ᑲ ᒪᒍᓂᐦᐊᖏᑉᑲᐣ ᓗᐃᓱᓚᐸ ᐧᐸᐅᓕᓐᔨ, ᑲᑳᓴ "ᐊᓚᔭ, ᑲᔦ ᐅᐧᐃᐃᐸᑎᒪᑲᓂᐧᐊᐣ", ᐁᔪᵈ ᐊᓂᔨ “ᐁ ᓀᑲ"ᐃᕀᐸᓕᓄ ᐃᓄᓅ ᓂᑐ"ᑯᓕᓄ ᐊᓄ ᐧᐃᔭᒋᒥᓀᓄ ᐅᑎᒋ ᑎ ᑭ ᐅᔨᓴ"ᐅᒪᑲᓄ ᐁ ᐅᓀᒋᐸᓕ"ᐃᐧᐁᐠ ᓂᑲᐣ ᒋᐣᐃᐦᐣ: ᐁ ᐧᐃ" ᑭᔭᓕ"ᑕᑲᓀᓄ ᐁ ᐃᔨ ᓂᑐ"ᑯᓀᓄ” ᑲ ᐃᔨᓂ"ᑲᑌᓵ

   ᐅ ᒪᐟ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᑯᑌ ᑲ ᐃᑎᔭ"ᐃᑲᓀᓄ ᐊᓂᑌ *Phytotherapy Research* ᑎᐸᒋᒍᓂᐦᐃᑲᓄ ᓂᔦᒋᐱᒍᒪ 2009 ᑲ ᐃᔦᐸᓕ"ᓵ ᐊᓂᑭ ᒪᐟ ᑲ ᓀᓀᑲᑭ"ᑕᐧᐅᑫ ᐅᓭ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᑭ ᓂᑐᐧᐁᓕ"ᑕᒧᓗ ᐊᐱᔨᔭ ᖁ ᐧᐁᔨᑕᑲᓀᓗᓗᓄ ᐊᓂᓭ ᑎᐸᒋᒍᓂᐦᐃᑲᓄᓭᓵ ᐁᐅᔨ ᒪᐟ ᐅ ᔭᔭ ᑲ ᐃ"ᑎᓀᓓᓀᓄ, ᐁᔨ ᒪᐟ ᒋᔨ ᖁ ᐃᑎᔭ"ᐊᒪᓄ ᐊᓄ ᑎᐸᒋᒍᓂᐦᐃᑲᓄᓵ ᐊᓄ ᒪᐟ ᐊᐱᔨᔭ ᐁ ᒪᒍᓀᓗᓄ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᐅᔨ ᐊᓄ “ᐧᐃᔭᒋᒥᓀᓂᐦᐃᑲᓄ ᑲᔦ ᐁ ᐅᔨᓴ"ᐅᒪᑲᓄ ᓂᑐᐧᐁ ᐁ ᐅᓀᒋᐸᓕ"ᐃᐧᐁᐠ ᐁ ᒥᔭᓕᓄ ᐁ ᐅᔭᑕᐸᓀᓓᓄ ᐁ ᔨᔭᐊᑲᒥᓄ” ᑲ ᐃᔨᓂ"ᑲᑌᓵ

2. ᑎᐸᒋᒍᓂᐦᐃᑲᓄ ᑲ ᒪᒍᓂᐦᐊᖏᑉᑲᐣ "ᐊᓚᔭ, ᐧᐸᐅᓕᓐᔨ, ᓵᓄᐃᒍᔪ, ᒪᒥᑕᒍᔪ, ᒪᔪᑎᓀ, ᑯᓚᔪᐃ, ᐧᐄᓵᔪ, "ᐊᑕᑦ, ᐯᓂᑦ, ᑲᔦ ᐊᔪᓀᒍᓂ, ᐁᔪᵈ ᐊᓄᔨ “ᐁ ᐃᔨ ᐧᐃᑎ"ᐃᐧᐁᐸᓄ"ᑲᐣ" ᐃᓀᓅ ᓂ"ᑕᐅᑎ"ᑭᑲᓂ ᓂᑐ"ᑯᓀᓗᓗᓂ ᐁᑲ ᑎ ᑭ ᐅᔭᓴ"ᐅᒪᑲᓄ ᐁ ᐅᓀᒋᐸᓕ"ᐃᐧᐁᐠ ᓂᑲᐣ ᒥ"ᑯᔦᐱᓄᓵ” ᑲ ᐃᔨᓂ"ᑲᑌᓵ

   ᐅ ᒪᐟ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᑯᑌ ᑲ ᐃᑎᔭ"ᐃᑲᓀᓄ ᐊᓂᑌ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ *Journal of Agricultural and Food Chemistry* ᑲ ᐃᔨᓂ"ᑲᑌᓵ ᐧᐊᐱᑯᓂᐱᒍᒪ 2009 ᑲ ᐃᔦᐸᓕ"ᓵ ᐊᓂᑭ ᒪᐟ ᑲ ᐊᐱᔨᔭ ᐁ ᒪᒍᓀᓗᓄ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᐅᔨ ᐊᓄ “ᐁ ᐃᔨ ᐧᐃᑎ"ᐃᐧᐁᐸᓄ"ᐃᐧᐁᐠ ᐁ ᐅᓀᒋᐸᓕ"ᐃᐧᐁᐠ ᐁ ᐅᔭᑕᐸᓀᓓᓄ ᐁ ᔨᔭᐊᑲᒥᓄ” ᑲ ᐃᔨᓂ"ᑲᑌᓵ

   ᐅ ᒪᐟ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᑯᑌ ᑲ ᐃᑎᔭ"ᐃᑲᓀᓄ ᐊᓂᑌ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ *Journal of Agricultural and Food Chemistry* ᑲ ᐃᔨᓂ"ᑲᑌᓵ ᐧᐊᐱᑯᓂᐱᒍᒪ 2009 ᑲ ᐃᔦᐸᓕ"ᓵ ᐊᓂᑭ ᒪᐟ ᑲ ᐊᐱᔨᔭ ᐁ ᒪᒍᓀᓗᓄ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ, ᐁᐅᔨ ᐊᓄ “ᐁ ᐃᔨ ᐧᐃᑎ"ᐃᐧᐁᐸᓄ"ᐃᐧᐁᐠ ᐁ ᐅᓀᒋᐸᓕ"ᐃᐧᐁᐠ ᐁ ᐅᔭᑕᐸᓀᓓᓄ ᐁ ᔨᔭᐊᑲᒥᓄ” ᑲ ᐃᔨᓂ"ᑲᑌᓵ

ᐅᐅᔨ ᐅ ᐊᐱᔨᔭ ᐁ ᒪᒍᓀᓗᓄ ᐅᑎᒋ ᐊᓂᑭ ᐁᑎᑐ ᒥᔭᑕᐃ ᐁ ᒪᒍᓀᓗᓄ ᑎᐸᒋᒍᓂᐦᐃᑲᓄ ᐊᓄᑌ ᑲ ᐅᑎᒋᐸᓄ ᐯᓂᑦ ᐁ ᐅᑎᒋ ᓂᑐᐧᐁᐸᓄ"ᑕᑲᓀᓄ·ᑲᐣ ᓂ"ᑕᐅᑎ"ᑭᑲᓂ"ᓵ

Papers that have been sent to journals

We have two papers that have been sent to journals, but the journals are still reviewing them. The papers are:

1. A paper by Louis-Phillippe Beaulieu, Cory Harris, and others, titled “Inhibitory effect of the Cree traditional medicine wiishichimanaanh (*Vaccinium vitis-idaea*) on advanced glycation endproduct formation: Identification of active principles.”

   The paper was sent to a journal called *Phytotherapy Research* in April 2009. The editors asked for small revisions. These have been made, and we are getting ready to send the paper back to them. The plain-language summary of this paper is called “Lowbush cranberries and AGEs: Preventing some of the problems that go with diabetes.”

2. A paper by Harris, Beaulieu, Fraser, McIntyre, Martineau, Cuerrier, Johns, Haddad, Bennett, and Arnason, titled “Characterizing the inhibitory effects of Cree medicinal plant extracts on in vitro formation of advanced glycation endproducts.”

   This paper was sent to the *Journal of Agricultural and Food Chemistry* in June 2009. The plain-language summary of this paper is called “Reducing bad effects from diabetes: the healing plants and AGEs.”

This text is a simplified version of a more technical report from the Bennett lab.

E. ᑎᐸᒋᒍᓂᓇᐦᐃᓴᓐ ᐊᓂᑌ ᑯᓚᐊᖅ ᓭᐦ ᐁ ᐅᓪᓗᐸᔨᖏᑦ ᐊᓂᑦ ᒍᓕᓴᐅ ᐅᑦᑐᓂᓕᓂ (ᑐᐃᓴᒪᓂᐃᓂᒪ – ᐃᒪᓂᐃᓂᒪ 2009)

ᐅᑎᐟ ᐁ ᐅᓪᓂ ᓂᐲᑎᕆᔨᓐᑕᕆᓚᓄᐦᐧᐃᓐ ᓂᓪᑕᐅᑎᓂᕆᓚᓄᐦᐧᐃᓐ, ᐁᐅᓄ ᓂᔅᑐᔨᐦ ᑌᐧᐃᓴᐧ ᐁ ᓂᐲᑎᕆᔨᓐᑕᕆᓚᓄᐦᐧᐃᓐᐦᐧᐃᓐ ᐊᓂᓴᐧ ᓵᓗ ᑌᐧᐃᓴᐧ ᐁ ᓂᐲᑎᕆᔨᓐᑕᕆᓚᓄᐦᐧᐃᓐᐦᐧᐃᓐ, ᐁᐅᓄ ᐁ ᐧᐃᐃᐸᑎᓂᓯᒪᓚᓄᐦᐧᐃᓕᐦ ᐊᓂᑦ ᓄᐢᐁᐅᓂᑦ ᐁ ᐊᑎ ᐧᐃᐃᐸᑎᓂᕆᓐᐦᐧᐃᓐ ᓂᓪᑕᐅᑎᓂᕆᓚᓄᐦᐧᐃᓐᐦᐧᐃᓐ ᐊᓂᑦ ᐢᓐ ᓄᐢᐁᐅᓂᑦ ᑌᐧᐃᓴᐧ ᐁ ᐧᐃᐃᐸᑎᓂᕆᓚᓄᐦᐧᐃᓕᐦ ᐃᓐᐦᐧᐃᓐ ᐁ ᐧᐃᐃᐸᑎᓂᕆᓚᓄᐦᐧᐃᓐ, ᐁᐅᓄ ᐁ ᐅᓪᓂ ᐱᐢᐸᔨᖏᑦ ᐊᓂᑦ ᐢᓐ ᐁᐅᓄ ᐁ ᐅᓪᓂ ᐱᐢᐸᔨᖏᑦ ᐁ ᐅᓪᓂ ᐱᐢᐸᔨᖏᑦ ᐁ ᐊᑎ ᐧᐃᐃᐸᑎᓂᕆᓚᓄᐦᐧᐃᓐᐦᐧᐃᓐ ᐁᐅᓄ

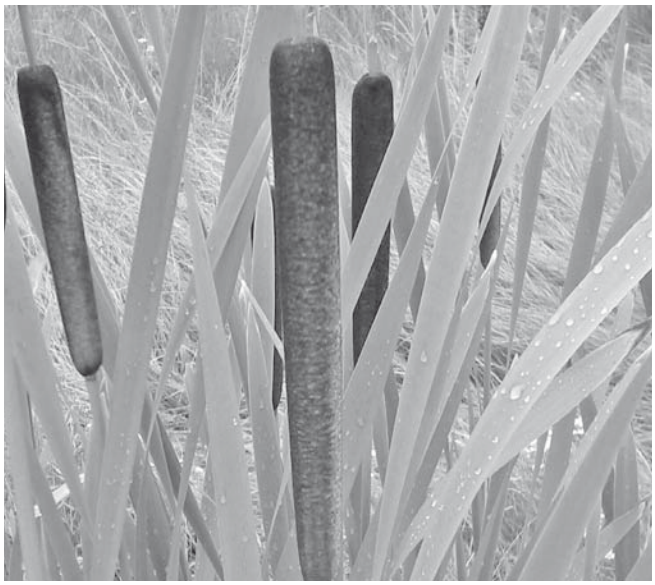
3. ᐁ ᓂᐃᑎᓴᓐᓀᒥᓂᔪᓕᓵᐃᓐᓄᑦ ᓀᓐ ᐁ ᐋᔪ ᓀᓐᑲᓐᐋᕐᓂᓄᑦ ᐁ ᓯᐅᓐᐃᓂᔪᓐᑲᑦ ᐁ ᓂᐃᑎᓴᓐᓀᒥᓂᔪᓕᓵᐃᓐᓄᑦ, ᐁᐅᔪ ᐁ ·ᐋᔪ ·ᐊᐱᓐᓀᒥᓂᓄᑦ ᓀᓐ ᐁ ᐋᔪ ᓀᓐᑲᓐᐋᕐᓂᓄᑦ ᐊᓐ ᐁ ᓯᐅᓐᐃᓂᓄᑦ ᐊᓴᒥᓂᓗ ᓂᓐᓀᒥᐅᓂᓵᓐᓄᑦ× ᐁᐅᔪ ᐁ ·ᐋᔪ ᑎᓐᔪᓐᓀᒥᓂᓄᑦ ᓀᓐ ᖃ ᑭ ᐃᔅᐱᐃᓪ ᓯᐅᓐᐃᓂᓄᑦ ᐁ ᓯᐅᓐᐃᓂᓄᑦ ᐅ ᓂᓐᓀᒥᐅᓂᓵᓐᓄᑦ ᐁᓵ ·ᐊᓴᒥᓂᓵᓐᓄᑦ ᐊᓂᑦ ᐁ ᐅᓐᓀᒥᓂᓵᓐᓄᑦ× ᐅ ᐁᔪ ᐋᔪ ᐁᓂᓐᓀᒥᓂᓵᓐᓄᑦ ᐊᓂᑦ ᐁ ᐅᓐᓀᒥᓂᓵᓐᓄᑦ

ᓂᐦᑕᐅᑎᑉᑲᓐ: ᒥᑯ ᐊᓐ ᐁ ᐃᔅᐱᔨᓂ ᓂᑐ·ᐁᐅᑎᑕᒧᑎᓐ ᐁ ᐅᑎᓂᒪᓐ, ᐁᑲ ᓯ ᒪᔭᐅᑎᑕᒧᑎᓐ ᐊᓂᑦ ᐁ ᐅᑎᓂᒪᓐ, ᐁ ᐊᐅᒥᑎᑲᔾᓐ ᒣᑲᓐ ᐁ ᓯᐅᑎᑐᓂᒪᓐ, ᐁ ᐸᑎᔨᓂᐧᐃᔾᓐ ᑎᔅᑕᒣᐤ ᐊᓐ ᓯ ᐁᑎ ᓀᓴᔨᑯᒧᔾᓐ ᐁ ᒥᑐᑯᐧᐃᔾᓐ ᐅ ᐁ ᓂᑐᑯᐧᑯᐅᓐ ᓂᐦᑕᐅᑎᑲᑉᓀᓐ ·ᓯᐅᔨᐧ ᐁ ᐅᔅᑲᓴᐤ ᓂᐦᑕᐅᑎᑲᑉᓀᓐ ᓯ ᓯᐅᑎᑐᓂᒪᓐ ᐅ 2009 ᓯ ᐃᔨᐸᔨᓐ: ᓯᔨᑮᔨᓴ, ᐅᑎᔅᓴᒥᔅᑯᓇᓐ ᑲᔦ ·ᐃᓐᐸᔨᓀᓐ ᐁᐅᑯ ᓯ ᐃᔨᓂ ᓂᑐᑎᔨᑎᑕᒧᑲᓴᓐ ᓱᓴᓄ ᐁ ᐃᓐᑎᑯᓐ ᐁ ᓂᑐᓐᑯᐅᓐ ᑲᔦ ᑕᓄ ᓯ ᑮ ᐃᔨᓂ ᓂᑐᓐᑯᐅᓐ ᐁ ᓂᑐᑯᐧᐃᔾᓐ ᑲᔦ ᐁ ·ᐃᓐ ᓯᐅᑎᓂᒪᓐ ᐅᔅᑯᓇᓐ

5. ᐅᑌ ᓯᓴ ᓂᒉᓄ ᐁ ᐅᓐᑎ ᓂᑐᑎᑎᑲᓐᑕᒧᑎᓐ ᓂᐦᑕᐅᑎᑲᑉᓀᓐ, ᒣᓴᓴ ᓂᒥᔪᔨᓐᑕᒧᓀᓄ ᐁ ᒪᔪᓀᐧᐊᒪᓐ ᒪᔨᓀᐧᐃᓴᐅᓂᔅ ᐅᓐᑎ ᐊᓂᔪᑦ 19 ᓂᐦᑕᐅᑎᑲᑉᓀᓐ ᔅᔅ ᓴ ᐊᐸᒧᑕᐦᓴᐤ ᐃᓄᐦᓵ ᐅ ᓯᓴ ᒪᔨᓀᐧᐃᓴᐅᓂᔅ, ᐁᔪᔭ ᑎᐸᐦ ᐊᐸᑎᑌᐦᑐᐃᐤ ᐊᓂᑎ ᓴ ᓂᑐᑎᑎᑲᓐᑕᒧᐦᓴᐤ ᑎᔨᓴᐤ ᓴ ᓂᑐᑯᐧᐃᔾᓐ ᐊᓂᑌ ᓴ ᐅᑎᓂᒪᓐ, ᐊᔪᔨᐧ ᐁ ᐊᐅᒥᑎᑲᑉᓀᓐ ᐊᓂᑦ ᐁ ᐅᑎᓂᒪᓐ, ᐊᔪᔨᐧ ᐁ ᐊᐅᒥᑎᑲᑉᓀᓐ ᐃᔨᓂᒪᓐ, ᐊᔪᔨᐧ ᐁ ᐱᑎᑯᓂᓀᑉᓀᓐ ᑎᔅᑕᒣᐧᐃᐤ ᐊᓐ ᓯ ᐅᑎᑎ ᓂᓴᔨᔪᒧᑉᓀᓐ ᐁ ᑭᐅᔪᑉᓀᓐ ᐅ ᐁ ᓂᑐᑎᔨᑎᑕᒧᑎᓐ ᓂᐦᑕᐅᑎᑲᑉᓀᓐ ᐅ 2009 ᓯ ᐃᔨᐱᐅᑎᓐ: ᓯᔨᑮᔨᓴ, ·ᐃᑎᔅᓴᒥᔅᑯᓇᓂᐦᑎᓐ ᑭᑉ ·ᐃᓐᐸᔨᓀᓐ ᐊᐅᔪ ᓯ ᐃᐱ ᓂᑐᑎᓯᐅᑎᑕᒧᓴᓂᐦᐃᓐ ᓯᓐᑎᔅᓴᓐ ᐁ ᐃᓐᑎᔪᓐ ᐁ ᓂᑐᑎᔨᑎᑕᒧᑎᓐ ·ᐃᔅᑯᓇᓐ

5. ᐅᑦ ᓯᓴ ᓂᒉᓄ ᐁ ᐅᓐᑎ ᓂᑐᑎᓯᐅᑎᑲᑉᓀᓐ ᓂᐦᑕᐅᑎᑲᑉᓀᓐ, ᓯᓴᓴ ᓂᒥᔨᐱᐅᑎᑕᒧᓵᓄ ᐁ ᒥᔪᓂᐧᐊᒪᓐ ᒥᔅᑐᐃᐧᐅᑎᓐᐃᐤᓄ ᐅᓐᑎ ᐊᓂᔪᑦ 19 ᓂᐦᑕᐅᑎᑲᑉᓀᓐ ᔅᔅ ᓴ ᐊᐸᒧᑎᓐᑎᐤ ᐃᐸᐸᐅᔅᓵ ᐅ ᓯᓴ ᒥᔅᑐᐃᐧᐅᑎᓐᐃᐤᓄ, ᐊᔪᔨᐧᐃᔭ ᑭᐱᐧ ᐊᐱᑎᑕᒧᐅᔅ ᐊᓂᑦ ᓴ ᓂᑐᑎᓯᐅᑎᓀᓐ ᓯᓴᓴᐅᔭᐤ ᑭᑉ ᓴ ᐃᐸᐸᐅᔅᓵ

ᐊᐅᔭ ᐅ ᐊᐱᔅᓴ ᐁ ·ᐃᔪᓵᑌᔅ ᑎᐸᒋᒧᔪᓂᐧᐃᐃᓴᔭ ᐅᐧᑎᓐ ᐊᓂ ᐊᑎᑐ ᒥᓴᑦᐧ ᓴ ᒥᔪᓵᑌᔅ ᑎᐸᒋᒧᔪᓂᐧᐃᐃᓴᔭ ᐊᓂᑌ ᔨᓀᔪᐟ ᓵᐸ ᓴ ᐅᐧᑎᐱᐅᔅᓵ



white cedar, cattail and cow parsnip. These will be looked at from the standpoint of their ingredients and potential activities. Paper birch is another plant that our lab is seeking to collect.

5. Our lab is finalising the booklet on the 19 plants so far mentioned by the Cree. This booklet is intended for the researchers and the Cree people.

This text is a simplified version of a more technical report from the Cuerrier lab.

F. ᑎᐸᒋᒍᓂᓴᐅᓐᐃᑲᓄ ᐊᓂᑌ ᐅᓴᓄᓐ ᐃᓕᓄᑦ ᓭᐸ ᑲ ᐅᖏᑭᓂᖏᓐ (ᐅᐃᐃᒪᑲᓂᐱᓂᒪ – ᐃᒪᓂᐱᓂᒪ 2009)

ᑭᓄ ᐁ ᐃᑌᓂᖏᑕᒥᐃᐃᐁᓐ ᐃᓂᒋᑎᒪ ᑲᔪ ᓂᑐᖏᓐᓄᓐᓂᓄ

ᐁᔨᓇ ᐁ ᓂᑐᑎᓂᖏᑕᒧᓄ ᑲᓇᔭᑎᓄ ᑕᐱᑦ ᐊᓂᔨ ᐁ ᐃᑌᓂᖏᑕᒥᐃᐃᓇᑕᐅᓄ ᐁᓇᑕᑎ ᐃᓂᒋᑎᒋᔨ ᑲᔪ ᓂᑐᖏᓐᓄᓐᓂᓄ ᐁᓇᑕ ᐁᓇᑕᒥᑕᐅᓄ ᐁᓇᑕᑎ ᐃᓇ ᓂᑐᖏᓐᓄᓐᓂᓄ ᐁ ᐃᑎᒥᐃᓇᑕᐅ ᐅᔨ ᐊᓂᔨ ᐁ ᓱᓇᒪᑕᒥᓄᓐᓂᓄ, ᐁᔨᓇ ᓴᓐ ᑲ ᓂᔭᓇᒪᐅ ᐅᔨ ᐁ ᐱᑎᐸᓂᖏᑕᐅ ᐁ ᐃᓂ ᓂᑐᑎᓂᖏᑕᒧᓄ, ᑲᔪ ᓴᓐ ᑎ ᑎᒥᐸᓂᖏᑕᐅ ᐁ ᐊᐸᑎᓂᖏᑕᐅ, ᐁᔨᓇ ᑐᓐ ᐁᓂ ᐅᓴᓇᒪᐅ ᐁᓇᑕᑎ ᐃᓇ ᐁᓇᑕᒥᑕᐅᓄ

ᒥᔅᑎᓄ, ∇ᐅᓄ ∇ ΔUᓭᖏᑕᒪᖓ ∇ᑎᑐ ∇ ·ᐃᑭᖏᐃᓂᒪᒥᒪᖓ ᑳ ᑭ ᒥᔨᓂᖏᑕᐅᑭᖓ ᐊᓂU ∇ᑎᑐ ∇ ᑕᖏᑲᖓ ᓄᔅᑦ ᒪᒃ ∇ᒃ ᑳ ᑭ ᒪᓂᔪᓱᓴ× ∇ᐅᓄ ᒪᒃ ᒃ ᒥᔾᔨ·ᐊᖏᑕᑲᖓ ᐊᓂᑭ ᒥᔅᑎᔨᖓ ∇ ᓂᖏᑕᐅᑭ·ᑕᐤ ∇ᑎᑐ ᐊᓂU ᑭ·∇ᑎᓂᖓ ᑲᔪ ᓴᔪᐤ ᐊᓂU ·ᐃᓂVᔨᖓ, ∇ᐅᔨᓂᒃ ∇ᑎᑐ ∇ ᓂᑐᖏᔨᓇ·ᑕᐤ× ∇ᐅᓄ ᑲᔪ ᒃ ᒥᔾᔨ·ᐊᖏᑕᑲᖓ ᐊᓄ ᒪᔾᔨᑎᓇᓇ"ᑎᓄ ∇ᑎᑐ ∇ ᓂᑐᖏᔨᓇᑦ Δᔅᐱᓂ ᐊᓄ ᒪᔾᔨᑎᓂ×

∇ᐅᓄ ᑭᓄ ᒃ ·ᐃ" ᓂᑐᑭᓭᓴᖏᑕᒪᖓ ᑫ·ᒃᓄ ᐊᓄ ᐊᖏᑭᐤ ·∇"ᑎᑐ ᓂᑐᖏᔨᓇ·ᑕᐤ ᐅᑭ ᒥᔅᑎᔨᖓ, ∇ᐅᓄ ᑲᑲᔪ:

- ᐊᖏᑭᐤ ∇ Δᓂᓱᔨᓇ"·ᒃᐤ" ᐊᓂᔦ ᑭᓴᔪ ᐊᓂᑦ ∇ ᐅ"ᑎᑐ ·ᐃᓭᓀᑦᔨᒪᒃᖓ ᑫ·ᒃᓄ ᑫ ᐃᓂ ᓂ"ᑕᐅᑭᖓ, ∇ᐅᔨᓂᒃ ᐊᓂᑭ ∇ᑎᑐ ᑭ·∇ᑎᓂᖓ ᒃ ᓂ"ᑕᐅᑭ·ᑕᐤ ᒥᔅᑎᔨᖓ
- ᓄᔅᑦ ᒪᒃ ᔭᐸᒃ ∇ Δᓂᓱᔨᓇ"ᖓ ᐊᓄ ∇ ᐅ"ᑎᑐ ·ᐃᓭᓀᑦᔨᒪᒃᖓ ᑫ·ᒃᓄ ᑫ ᐃᓂ ᓂ"ᑕᐅᑭᖓ, ᒥᔨ ᐊᖏᑭᐤ ∇ Δᔅᐸᓴᖓ ∇ᑎᑐ ∇ ·ᐃ" ·ᐃᑭᖏᐃᓂᒪᒥᒪᖓ ᑳ ᑭ ᐃᓂ ᓂ"ᑕᐅᑭᖓ×

ᐊᓄᑭ ᒥᔅᑎᔨᖓ ᐊᖏᑭᐤ ∇ ΔUᓭᖏᑕᔨᓇ·ᑕᐤ ∇ ᐃᓂ ᓂᑐᖏᔨᓇ·ᑕᐤ, ∇ᐅᔨᓂᒃ ᑲᑲᔪ ᐊᓄ ᐊᖏᑭᐤ ∇ Δᓭᓀᑦᔨᓇ·ᑕᐤ ᐊᓄU ∇ ᐅ"ᑎᑐ ·ᐃᓭᓀᑦᔨᓇ·ᑕᐤ ᑳ ᐃᓂ ᓂ"ᑕᐅᑭ·ᑕᐤ, ∇ᔨ ᒪᒃ ᑎᖏ·∇ ᐊᖏᑭᐤ ∇Uᓭᑕᔨᖓ ᐊᓇᑦ ∇ᓄ"ᑕᐅᑭᖓ ᐊᓄ ᒥᔾᔨᖓ ·∇ᖓ ᐊᖓᑭᓭᐤ ΔUᓭᑕᔨᓀᖓ ᐊᓇᑦ ∇ᓄᑕᖓ·ᑭᓀᑦ ᐊᓄU ᑭ·∇ᑎᓄᖓ? ᐊᓄ ᒪᒃ ᓄᔅ·ᑫᐅᔪᖓ"ᐃ·∇·ᐃᓄ, ᒧ·∇ᖓ ᑕᐱᔅᔨᓄ ᒥᔭ·∇ ∇ᐅᑭ<Δᓭᖏᐤ ∇ Δᓂᓱᔨᓇ"ᖓ× ∇ᐅᔨᓂᒃ ᒪᒃ ᐊᓄ ᒃ ·ᐃ·ᐊᑦ<"ᑕᒪᖓ ᐊᓄ ᑭᖏᑦ ∇ ᐅ"ᑎᑐ ·ᐃᓭᓀᑦᔨᒪᒃᖓ ᑫ·ᒃᓄ ᑳ ᐃᓂ ᓂ"ᑕᐅᑎᖓ ᐊᓄU ᓄᓱᔨᓇ ᐅᑦ ᐃᓱᓂ ᐊᖏᑲᖓ ᓂᑭ ᓂᑐᖏᔨᓇᑦᑕᒪᖓ ᒪᒧ ᓅᓂᓱ ᑭ ᐃᑎ"ᑎᐃᑐᓱᓄᓱᓄᒪᖓ ᐊᓄU ᐃᓱᓂ ᐊᖏᑲᖓ ᐊᓄᑦ ∇ᓄ"ᑕᐅᑭ·ᑕᐤ ᒥᔅᑎᔨᖓ ᐊᓄU ᐃᓱᓂ ᐊᖏᑲᖓ× ᐊᓄ ᒪᔾᔨᑎᓇᓇ"ᖓ ∇ᑎᑐ ∇ ᓂᑐᖏᔨᓇ·ᑕᐤ

ᑲᓚᑦ ᐊᖏᑭᐣ ᑭ ᐃᔪᓴᔪᓐ ᐁ ᐃᔪ ᓂᑐᖏᔪᓐᓂᕐ, ᐁᐅᔪ ᒧᐅ ᐊᓐ ᐊᓯᑭ ᐁ ᑕᖏᐅᓴᓕᖏᑦ ᐊᓂᕐ ᐁ ᓂᖏᑕᐅᑭᕐ ᐅ ᒥᔅᑎᔪ ᐊᓂᓗ ᑕᓐ ᖃ ᐃᔪ ᓂᑐᖏᔪᓴᕐᓂᓵ

ᐁᐅᔪ ᑲᔾ ᑲ ᓴᐃ ᓵᐊᓚᕆᒪᖏᑦ ᐊᓐ ᐊᖏᑭᐣ ᐁ ᐃᔪ ᐃᖏᑎᔪᖏᖓ ᖃᓚᐅᑎᖏᑦ ᐅᑭᐣ ᐊᖏᑦ ᓂᑕᐅᑭᕐᑎᑲᓂᖏᑦ ᐊᖏᑭᐣ ᖃ ᐃᓚᓚᕆᖏᑦ ᐁ ᐃᔪ ᓂᑐᖏᔪᓴᓴᖏᑦ ᐊᓂᕐ ᓂᖏᑕᐅᑎᕐᑎᑲᓂᖏᑦ ᐊᖏᑭᐣ ᖃ ᑭ ᐃᓚᓚᕆᖏᑦ ᐁ ᐃᔪ ᓂᑐᖏᔪᓴᓴᖏᑦ ᐊᓐ ᐊᖏᑭᐣ ᐁ ᐃᔪ ᓂᑐᖏᔪᓴᓴᖏᑦ ᐊᓂᕐ ᓂᖏᑕᐅᑎᕐᑎᑲᓂᖏᑦ ᐊᖏᑭᐣ ᖃ ᑭ ᐃᓚᓚᕆᖏᑦ ᐁ ᐃᔪ ᓂᑐᖏᔪᓴᓴᖏᑦ ᐊᓐ ᐊᖏᑭᐣ ᖃ ᑭ ᐃᓚᓚᕆᖏᑦ

ᐁ ᑭᖏᑲᓴᒪᓱᓄᑦ ᐊᐅᓗ ᐯᐃᓕ

ᐊᓄᖏᑭᑲᓄ ᑭ ᒥᑲᓱᓄ ᐊᐅᓗ ᐯᐃᓕ ᐁ ᑭᖏᑲᓴᒪᓱᓄᑦ ᐊᓂᔪ ᐁᑦᒪᓪᑦ H. ᗒᓪᓄ ᐊᐩᐊᖅ ᑲ ᐃᔨᓂᖏᑲᑌᓱᑲ ᐊᓂᑕ ᑲ ᓂᖅᑐᐩᓄᓱᐃᓪᓄᑦ ᑲ ᓴᑐᕆᐊᖏᖏᑦᑕᓱᓄᓱᑲᑦ ᓂᖏᑦᐁᐅᑎᓂᑕᓱᓄᓱᑲᑦ Society for Economic Botany ᐊᓂᑕ ᐸᖅᑐᓄᐅᕆᑭᖏᑦ ᐊᓂᑕ ᓴᐅᓄ ᖃᐢᓪᑐᐃᓐᓇᓄᑦ ᐊᓂᔪ ᓴᐃ ᑲ ᒥᑲᓱᓄᑦ ᐁ ᑭᖏᑲᓴᒪᓱᓄᑦ, ᐁᔪᐩᐞ ᐊᓂᔪ ᐩᐃᓐ ᓴᐅᓄ ᐁ ᑭ ᓄᕆᖏᐅᑦ ᐁ ᑭ ᐊᐳᒥᑦ ᑲ ᐩᐊᐸᖏᑦ ᐁ ᐃᑦᐸᑎᓂᑦ ᐁ ᐃᑦᐱᐸᑎᓂᑦ (ᐁᔪᐩᐞ ᐊᓂᔪ ᓂᕆᔪᐞ ᐱᐅᓪᑦ ᓄᖅᑦ ᓴᐃ ᐁᑎᑐ ᐩᐊᐃᐱᕆᓵᓄᑦ ᐁ ᑭ ᐃᕆᑦ ᐊᓂᔪ ᐅᒥᓂᓪᐞᐃᑲᐞ ᐁ ᑭ ᐸᔨᑦᑕᓱᓄᑦ ᑲ ᐃᓂ ᑭᔭᑦᑕᒥᓂᑦ)ₓ

ᐁᐅᔨ ᐅ ᐊᐱᓵᓴ ᐁ ᒪᓂᓇᑌᓱ ᑎᐸᑭᒧᓂᓇᓄᐞᐃᑲᐞ ᐅᑦᑭ ᐊᐞ ᐁᑎᑐ ᒥᓴᑦᐃ ᑲ ᒪᓂᓇᑌᓱ ᑎᐸᑭᒧᓂᓇᓄᐞᐃᑲᐞ ᐊᓂᑕ ·ᐃᓘᔪ ᓪᑲ ᑲ ᐅᑦᐸᓂᑦᑐᓱᓄᑦ.

An award for Anna Bailie

Anna Bailie recently won the Edmund H. Fulling Award at a meeting of the Society for Economic Botany in South Carolina. This award is for the best oral presentation by someone who is newly qualified (i.e. has had a degree for five years or less).

This text is a simplified version of a more technical report from the Johns lab.

ᐊ ᑭᖏᑲᐱᒪᓂᓂᔪᓄᑦ ᐊᐅᓗ ᐯᐃᓕ

ᐊᓄᖏᑭᖏᓗ ᑭ ᒥᑲᓂᓄᐞ ᐊᐅᓗ ᐯᐃᓕ ᐊ ᑭᖏᑲᐱᒪᓂᓂᔪᓄᑦ ᐊᓄᑲ ᐁᑦᒪᓪᑦ H. ᗒᓪᓄ ᐊᓂᔪᐞ ᑲ ᐃᔨᓂᖏᑲᑎᓂᑕ ᐊᓄᑕ ᑲ ᓄᖅᑐᐃᓂᓂᔪᓄᑦᑕᓱᓄᓱᑲᑦ ᓄᖏᑦᐁᐅᑎᓂᑕᓱᓄᓱᑲᑦ Society for Economic Botany ᐊᓄᑕ ᒥᓪᒍᖏᓂᔪᓄᑦᑕᓱᓄᓱᑲᑦ ᐊᓄᑕ ᓴᐃ ᑲ ᒥᑲᓂᓄᑦ ᐊ ᑭᖏᑲᐱᒪᓂᓂᔪᓄᑦ, ᐊᔪᐞᐃᐞ ᐊᓄᑲ ·ᐃᓘᔪ ᐃᐅᓗ ᐊ ᑭ ᐳᔨᑎᓂᑦ ᐊ ᑭ ᐊᐳᒥᑦ ᑲ ·ᐊᐱᖏᑦᐊᓂᑦ ᑲᓂᑲᓵᐞ ᐳᑲ ᐊᓄᑲ ·ᐃᓘᔪ ᐊ ᐅᔨᑎᓂᑦ ᐊ ᐃᑦᐱᐸᑎᓂᑦ (ᐊᔪᐞᐃᐞ ᐊᓄᑲ ᓂᕆᔪᔪ ᐱᐅᓪᑦ ᓄᖅᑦ ᐊᑎᑐ ·ᐊᐃᐱᔨᑦᑕᓱᓄᑦ ᐊ ᑭ ᐃᕆᑦ ᐊᓄᑲ ᐅᒥᓂᓪᐞᐃᑲᐞ ᐊ ᑭ ᐱᐞᑦᑕᓱᓄᑦ ᐊᓄᑕ ·ᑲᓂᔪ ᓪᑲ ᑲ ᐅᖏᐱᓂᖏᓪᓄᑦ.

ᒪᓕᓐᐃᑎᐅᓕᖅ | ᓯᓚᓐᐃᓚᐅᓕᖅ Notes

Species	English Name	Cree Name	Southern Dialect	Northern Dialect
Abies balsamea	Balsam fir	Inaasht	ᐃᓀᓵᑦ înâsht	ᐃᓴᔪᐣᑦ îyâshiht
Alnus incana subsp. rugosa	Gray alder	Atushpi	ᐅᔑᓵᐱ utûspî	ᐅᑐᓵᐱ utuspî
Andromeda polifolia L.	Bog rosemary	Uschischibuk	ᐅᓵᑭᓵᑯᐣ uschischipakw	ᐅᓵᑭᓵᐱᐣ uschischipikw
Betula papyrifera	Paper birch	Ushkui	ᐅᔫᔨᐃ ushkui	·ᐃᔫᔨᐃ wishkui
Cladonia rangiferina	Gray reindeer lichen	Wapskamkw	·ᐊᐱᓵᒪᒥᐣ wâpiskamikw	·ᐊᐱᓵᕈᒥᐣ wâpiskimikw
Empetrum nigrum	Crowberry	Eshjeemenan	ᐊᓵᐢᒥᐃᓇᐟ aschîminânh	ᐊᓵᐢᒥᐟ aschîminh
Gaultheria hispidula	Creeping snowberry	Pieuminaan	ᐱᓬᐅᒥᐃᓇᐟ piyeuminânh	ᐱᓴᐅᒥᐟ piyâuminh
Heracleum maximum	Cow parsnip	Wiipashtk	·ᐃᐟᐸᔫᐣ wîhpâshkw	·ᐃᐟᐸᓵᐣ wîhpâskw
Juniperus communis	Ground juniper	Kakachiiminatuk	ᑲᐟᑲᐢᒥᐃᓇᐟᑎᐣ kâhkâchîminâhtikw	ᑲᐟᑲᐢᒥᐃᓇᐟᑎᐣ kâhkâchîminâhtikw
Kalmia angustifolia	Sheep laurel	Uishichipukw	ᐅᓵᑭᓵᑯᐣ uschischipakw	ᐅᓵᑭᓵᐱᐣ uschischipikw
Larix laricina	Tamarack larch	Watnagan	·ᐊᐢᐃᓇᒐᐟ wâchinâkan	·ᐊᐢᐃᓇᕈᐟ wâchinâkin
*Leymus mollis**	American dune grass	Weenibekushkushuh	·ᐃᓂᐯᔨᔫᔨᓱᐟ wiinipekushkushuuh	·ᐃᓂᐸᔨᔫᔨᔪᐣᐟ wiinipaakushkushiuh
Lycopodium clavatum	Stag's horn club moss or ground pine	Pashtnahoagin	ᐸᓵᐢᓇ·ᑲᑲᐟ pâschinâhkwâkan	ᐸᓯᓇ·ᑲᕈᐟ pâsinâhkwâhkin
Picea glauca	White spruce	Minhikw	ᒥᓇᐟᐃᐨ minahîkw	ᒥᓂᐟᐃᐨ minihîkw
Picea mariana	Black spruce	Inaahtikw	ᐃᓀᐟᑎᐨ înâhtikw	ᐃᓴᐟᑎᐨ îyâhtikw
Picea mariana	Black spruce (bog)	Maschegotuk	ᒪᔭᒡᑲᐟᑎᐨ mashekwâhtikw	ᒥᔭᒐᑲᐟᑎᐨ mischekwâhtikw
Pinus banksiana	Jack pine	Ushchishk	ᐅᓵᑭᔭᐣ uschisk	ᐅᓵᑭᔭᐣ uschisk
Populus balsamifera	Balsam poplar	Miitus	ᒼᑐᔭ mîtus	ᒼᑐᔭ mîtus
Rhododendron groenlandicum	Labrador tea	Kachichepukw	ᑲᑎᔪᐱᐣ kâchichepakw	ᑲᑎᐧᐱᐣ kâchichâpikw
Rhododendron tomentosum	Northern Labrador tea	Weeshichbuksh	·ᐃᔫᑭᐸᔨᔪᐟ wîshashipakush-h	·ᐃᔫᑭᐱᔨᔪᐟ wîshichipikush-h
Salix planifolia	Willow	Pieuatikw	ᐱᓬᐅ·ᐊᐟᑎᐨ piyeuwâhtikw	ᐱᓴᐅ·ᐊᐟᑎᐨ piyâuwâhtikw
Sarracenia purpurea	Pitcher plant	Ayigadash	ᐊᐳᑲᑦᓵ ayikatâsh	ᐊᐳᕈᑦᓵ ayikitâsh
Sorbus decora	Showy mountain ash	Mushkuminanatikw	ᒪᔭᔨᐢᓇᓇᐟᑎᐨ maskuminânâhtikw	ᒥᔭᔨᐢᔫ miskumishî
Sphagnum fuscum	Common brown peat moss	Awashischee	ᐊ·ᐊᔫᔭᐢᐧ awâshischî	ᐊ·ᐊᔫᔪᐢᓵ awâshishchîsh
Stereocaulon paschale	Common coral lichen	Wabuwakunapwkw	·ᐊᐱ·ᐊᐟᔨᓇᐱᐣ wâpiwâhkunâpiskw	·ᐊᐱ·ᐊᐟᔨᓄᐟ wâpiwâhkunh
Thuya occidentalis	Cedar	Maastchiisk	ᒪᔭᐢᔭᐣ mâschîsk	ᒪᔭᐢᔭᐣ mâschîsk
*Typha latifolia**	Cattail	Uchshkoyushkushu	ᐅᑭᓵ·ᑳᔪᔪᔨᔪᓱᐟ uchishkwâyûshkushû	ᐅᑭᓵ·ᑳᔪᔪᔨᔪᕈᐢᐤ uchishkwâyûshkushiu
*Vaccinium angustifolium**	Low-bush blueberry	Minshe	ᐃᓂᒥᓇᐟ îniminânh	ᐃᐳᒥᐟ îyiminh
Vaccinium uliginosum	Alpine bilberry	N'chiminatuk	ᓂᑭᔨᒥᐃᓇᐟᑎᐨ nichikuminâhtikw	ᓂᑭᔨᒥᐃᓇᐟᑎᐨ nichikuminâhtikw
Vaccinium vitis-idaea	Mountain cranberry or lingonberry	Wishichimna	·ᐃᔭᑭᒥᐃᓇᐟ wîsachiminânh	·ᐃᔪᑭᒥᐟ wîsichiminh

* ᓇᒧᐃ ᒧᔅ ᐊᐳᒧᑌᐤ * ᓂᒧᐳ ᒧᔅ ᐊᐳᒧᑕᐤ * *not often mentioned during interviews*

ᒪᓕᓐᐃᑎᐅᓐᓄᑦ | ᑕᓕᓐᐃᓚᐅᓐᓄᑦ Notes