

***IT'S GETTING  
DARK EARLY  
THESE DAYS***



Gene: PER2  
 Name: period circadian regulator 2  
 Location: complement(238,244,044..238,300,065)  
 Length: 56,022 nt  
 [Positional Info]  
 NC\_000002.12 position: 238,301,689



Links & Tools  
 GeneID: 8864 (PER2)  
 HGNC: 8846  
 MIM: 603426

BLAST nr: NC\_000002.12  
 (238,244,044..238,300,065)  
 BLAST to Genome: NC\_000002.12  
 (238,244,044..238,300,065)  
 FASTA record: NC\_000002.12  
 (238,244,044..238,300,065)  
 GenBank record: NC\_000002.12  
 (238,244,044..238,300,065)



2p25.3  
 2p25.2  
 2p25.1  
 2p24.3  
 2p24.2  
 2p24.1  
 2p23.3  
 2p23.2  
 2p23.1  
 2p22.3  
 2p22.2  
 2p22.1  
 2p21  
 2p16.3  
 2p16.2  
 2p16.1  
 2p15  
 2p14  
 2p13.3  
 2p13.2  
 2p13.1  
 2p12  
 2p11.2  
 2p11.1  
 2q11.1  
 2q11.2  
 2q12.1  
 2q12.2  
 2q12.3  
 2q13  
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 2q33.1  
 2q33.2  
 2q33.3  
 2q34  
 2q35  
 2q36.1  
 2q36.2  
 2q36.3  
 2q37.1  
 2q37.2  
 2q37.3

PER2  
 RESIDES  
 RIGHT  
 <<<< HERE

PER2 is found in countless organisms. It's a small system only containing 56k bp, but it's powerful. I'd wager that the designer's quite talented, but we were never able to find them.

12>; C; R<  
 44>; I; F<  
 82>; R; G<  
 62>; C; <  
 16>; R; <  
 94>; H; <  
 04>; Y; <

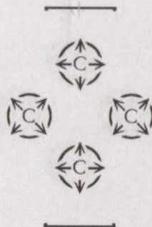
I guess that's that.

Start 238,244,044 bp  
 End 238,290,102 bp





Four Main  
Branches of  
Seasonal Affective  
Disorder



Biological Rhythms  
Mood Regulation  
Increased Eating  
Light Sensitivity



BR: Most likely related.

MR: Most likely unrelated.

IE: Slight Relation.

LS: Completely Unrelated.

See: Melatonin Signal Transduction Pathways Require E-Box-Mediated Transcription of Per1 and Per2 to Reset the SCN Clock at Dusk

by: Patty C Kandalepas, Jennifer W Mitchell, Martha U Gillette

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Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, United States of America.

See: "

by: "

affiliated with:

"

"

See: Prevalence and correlates of binge eating in seasonal affective disorder

by: Shannon D Donofry, Kathryn A Roecklein, Kelly J Rohan, Jennifer E Wildes, Marissa L Karmack

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*I guess that's that.*

See: Abnormal hypothalamic response to light in Seasonal Affective Disorder

by: Vandewalle Gilles, Hébert Marc, Beaulieu Catherine, Richard Laurence, Daneault Véronique, Garon Marie-Lou, Leblanc Jean, Grandjean Didier, Maquet Pierre, Schwartz Sophie, Dumont Marie, Doyon Julien, Carrier Julie

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Cyclotron Research Centre, University of Liège, Liège, Belgium



I've searched and searched the canals of  
our dearest information superhighway  
and have failed to find the exact  
genetic code in nucleotide strand or triplet code  
of the PER2 gene. Perhaps even they don't know  
or perhaps there's too much variance in the gene  
from organism to organism that the information  
would be completely useless. All we know is  
what it does I suppose.



There's a few interesting findings by

Shou-Tung Chen,  
Kong-Bung Choo,  
Ming-Feng Hou,  
Kun-Tu Yeh,  
Shou-Jen Kuo, and  
Jan-Gowth Chang

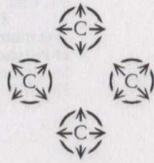
working with the

Department of Molecular Medicine, China  
Medical University Hospital, Taichung, Taiwan.

on their research titled on pubmed as

Deregulated expression of the PER1, PER2 and  
PER3 genes in breast cancers

Found that PER genes have a major impact on  
the cell cycle and have impact on breast cancer  
specifically.



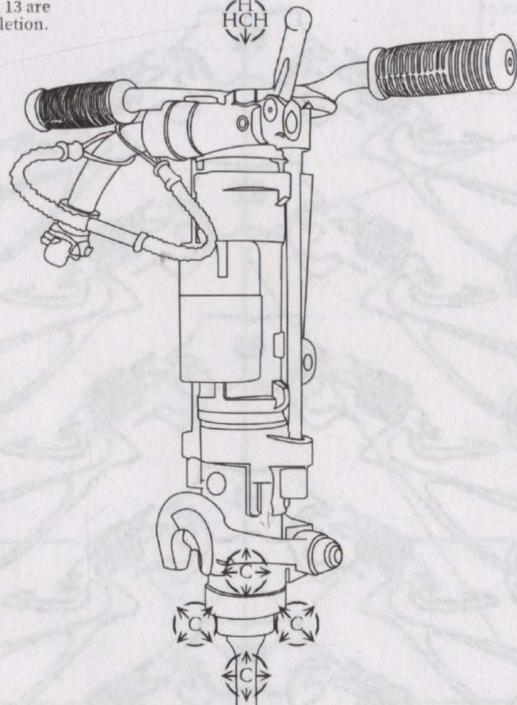
中國醫藥大學  
仁、慎、勤、廉







Pages 12 and 13 are  
subject to deletion.



**FOUR FRIENDS OF  
THE CHINCHILLA**

Kevin Shields  
Colm Ó Cíosóig  
Debbie Googe  
Bilinda Butcher



Canyon Equipment  
Mining, Tunneling, Drilling  
info@canyonequipment.com  
www.canyonequipment.com  
220 Sinker Drill

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All internal parts in 220 Sinkers are also used in 220 AV Jacklegs.

This Sinker Drill delivers High Frequency Penetration.

Standard operating controls are located on the drill backhead.

Positive lubrication with strong front end blow.

Light weight balanced handling.  
"T" Handle is spring loaded to reduce the transference of vibration from the rock drill to the drill operator's hands and arms. Lessens driller fatigue.

Also available in Rigid Handle Model.  
Front end locking steel retainer for collared steel standard.

Use with drill oil or grease.  
Canyon carries a full range of parts for the 220 drills in stock. All parts are made in Canada to precise specifications using only the highest quality tool steel.

Our goal is to ensure equipment is mechanically friendly and easy to learn, operate and maintain!

No. 1	Butcher	4:17
No. 2	Butcher	2:38
No. 3		0:56
No. 4	Butcher	5:31
No. 5	Shields	4:11
No. 6	Shields	5:34
No. 7	Shields	3:58
No. 8	Shields	5:19
No. 9	Butcher	3:36
No. 10	Shields	5:33
No. 11	Shields	6:58
		48:31



Languages and systems similar to them all exist within the carbon atoms on the periphery.



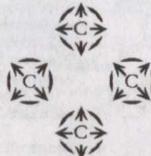
General logic and computation as a whole exist on the two poles marked with this text.



Languages and systems similar to them all exist within the carbon atoms on the periphery.

On the North pole sits a microcosm of computation and logic: the gene.

The West holds memes or the smallest indivisible part of a language.



The East holds memes or the smallest indivisible part of a language.

The South pole, mirroring the North, also houses the gene.

Languages and systems similar to them all exist within the carbon atoms on the periphery.



General logic and computation as a whole exist on the two poles marked with this text.



Languages and systems similar to them all exist within the carbon atoms on the periphery.



PL1 CC1 PR1

NG2  
NM3-1 NM3-2  
NG4

PL5 CC5 PR5

PL1 TO NM3-1  
CC1 TO NG2  
PR1 TO NM3-2

NG2 TO NG4  
NG2 TO NM3-1  
NG2 TO NM3-2  
NM3-1 TO NG4  
NM3-2 TO NG4

PL5 TO NM3-1  
CC5 TO NG4  
PR5 TO NM3-2

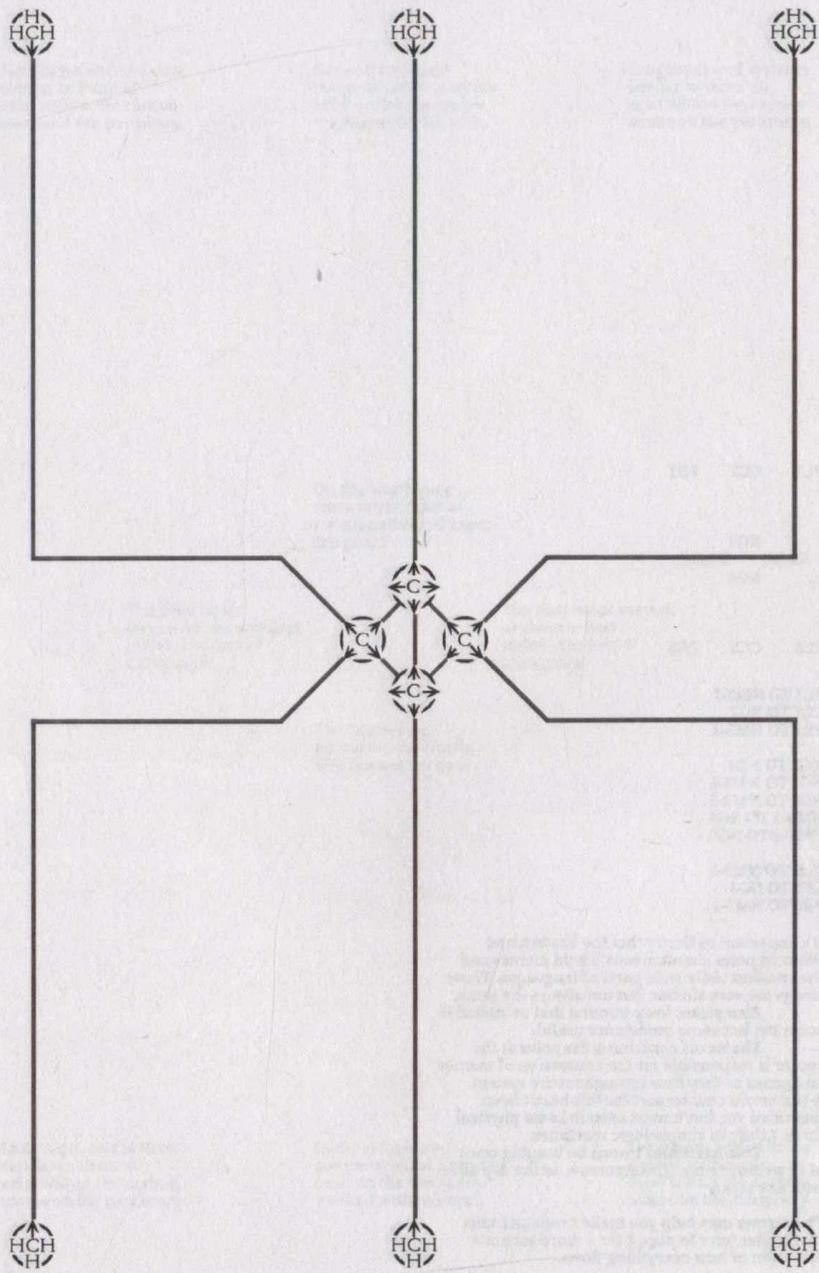
It's important to clarify that the Eastern and Western poles simultaneously hold memes and the smallest indivisible parts of languages. These things are very similar, but not always the same.

Also please keep in mind that no model is accurate, but some models are useful.

The nexus containing the poles at the center is responsible for the conversion of memes and genes as they flow throughout the system. A real world counterpart for this hasn't been identified yet, but it must exist in some physical form. Likely in simple logic machines.

This has issues I won't be keeping track of in writing today. (Or tomorrow, or the day after with any luck.)

The arrows may help you make heads and tails of this, but refer to page 8 for a more accurate depiction of how everything flows.



PL1  
Normal as far as we know. Works in most circumstances as a control. PL1 as a set is most often monitored to find any irregularities as we learn how to work with this.

CC1  
Massively dependent on reality to function. It's a fickle machine, but produces the most coherent results when prodded. The best "knob to turn" in a manner of speaking.

PR1  
None of these sets represent anything but if they did, PR1 would represent Proto Indo European and its sister languages. Which you would think wouldn't leave much on the table for the other peripheral sets, but the variety is shocking.

NG2  
Worst translator of the lot, almost kneecapping CC1's usefulness as a machine. Luckily NG2's issues are rather predictable and can be worked around.

NM3-1  
Complements PL1 in its consistency, making the northern left end of the model a home base we work from in a way.

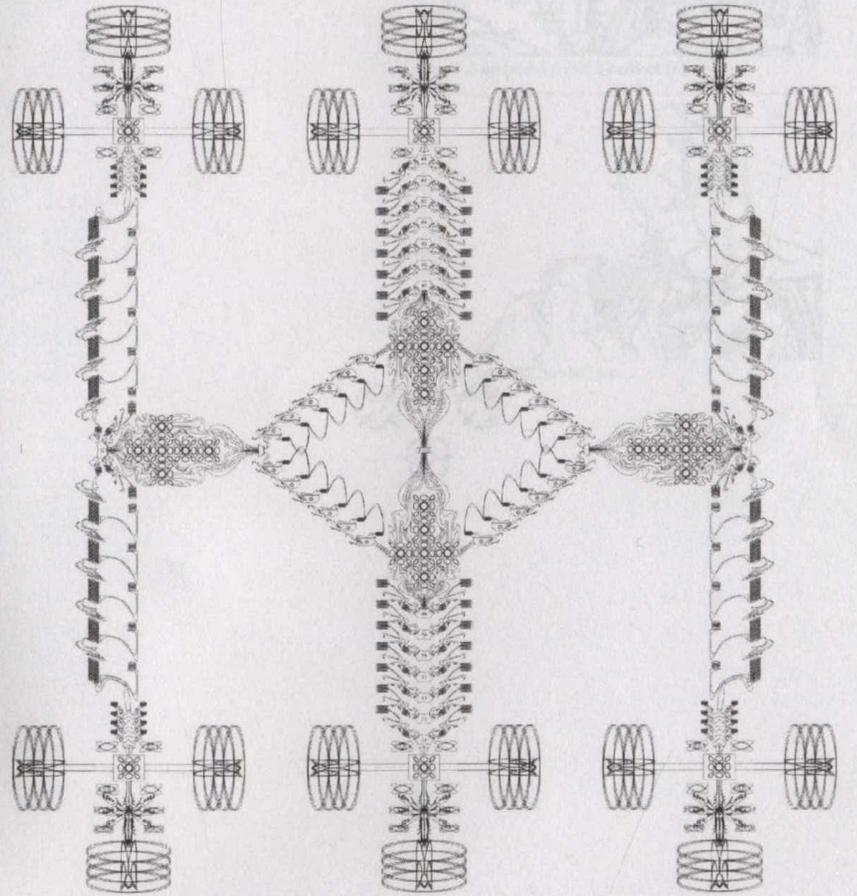
NM3-2  
A massive pain point in the early days until we realized it was just developing dementia and reversing it on our calendar. Not literal dementia, but I'm not sure how else to describe it.

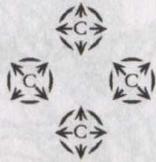
NG4  
This one actually has an affinity for images and other grid based systems. If left to its own devices it'll try to prod the mind of whatever's observing it which usually ends in imagery that's kept me up at night.

PL5  
We have not read a single blip of activity from this set. Effectively dead. It's a miracle this model works anyway.

CC5  
Similar to CC1 but slower, seemingly for its insistence on adding elements of randomness before meticulously removing them.

PR5  
Seemingly compensating for PL5, this set is sending to NM3-2 constantly and seems most related to PER2.





As PL5 awakens I find I cannot fall asleep.



It seems PER2 has left me.



2 



Shields estimates they lost a year. There were other considerations, too. "The house was full of madness," admits Googe. "We smoked way too much weed. It was like the Partridge Family on acid. It was quite a mad scene. And then there were the chinchillas. I think Kevin bought one as a present for Bill. They thought it might be lonely, so they got another one. Then, like rodents do, they bred. At its peak, I think there were 13 or 14 chinchillas and they had the whole of the upstairs floor."

