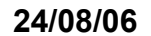
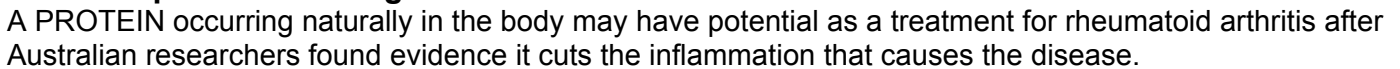
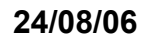
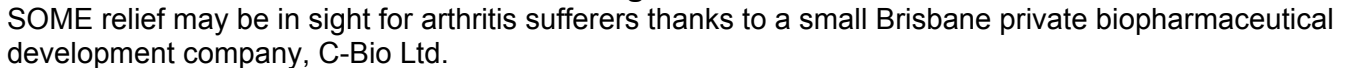
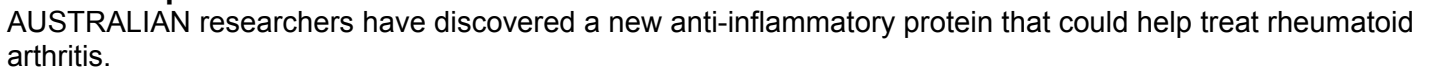
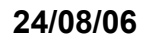
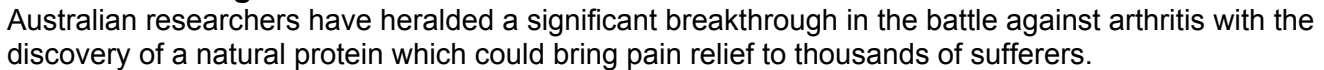


 24 August 2006 Industry PLEASE CLICK ON HEADLINE TO VIEW FULL TEXT ARTICLE **Protein's promise treating arthritis** **The Australian** **24/08/06** A PROTEIN occurring naturally in the body may have potential as a treatment for rheumatoid arthritis after Australian researchers found evidence it cuts the inflammation that causes the disease. **Brisbane firm makes arthritis breakthrough** **The Courier Mail** **24/08/06** SOME relief may be in sight for arthritis sufferers thanks to a small Brisbane private biopharmaceutical development company, C-Bio Ltd. **Protein hope in arthritis** **Herald Sun** **24/08/06** AUSTRALIAN researchers have discovered a new anti-inflammatory protein that could help treat rheumatoid arthritis. **Found: the drug to beat arthritis** **The West Australian** **24/08/06** Australian researchers have heralded a significant breakthrough in the battle against arthritis with the discovery of a natural protein which could bring pain relief to thousands of sufferers. **An Australian design drug is being hailed as a potential new treatment for rheumatoid arthritis** **Various Radio and Television News** **23/08/06**

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**Thursday 24 August 2006**

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## Protein's promise treating arthritis

Author: Adam Cresswell Health editor  
Publication: The Australian (003,Thu 24 Aug 2006)  
Edition: 1 - All-round Country  
Keywords: **arthritis (5)**

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A PROTEIN occurring naturally in the body may have potential as a treatment for rheumatoid **arthritis** after Australian researchers found evidence it cuts the inflammation that causes the disease.

An exploratory study by scientists in Melbourne, Brisbane and Perth treated a small number of patients with differing doses of the protein, called chaperonin 10.

They found the treatment brought improvements in the patients' condition of between 20 and 70 per cent.

The authors said the results of the study, published online by the British-based medical journal The Lancet, "are encouraging in terms of the reduction of signs and symptoms of rheumatoid **arthritis**".

Rheumatoid **arthritis** is the most common autoimmune disease in Australia, occurring when the immune system starts to attack the body's own tissues. It affects about 160,000 older Australians, mostly women.

What triggers rheumatoid **arthritis** is not fully understood. Although it can affect many organs of the body, it is characterised by a swelling of the joints, particularly the hands, leading to deformities.

The trial was funded and co-ordinated by the Brisbane-based biotech company that makes chaperonin 10, CBio, which is part-funded by the federal Government. The company is now planning further trials to test the protein's effectiveness more precisely.

For the trial, researchers from Monash University, the University of Queensland and the Royal Perth Hospital randomly divided 23 patients into three groups. Each group received twice-weekly injections for 12 weeks of a compound containing chaperonin 10, in one of three different doses: 5 milligrams, 7.5mg or 10mg.

Professor of rheumatology at Sydney University Philip Sambrook, said the findings were "very interesting" but cautioned that the trial did not prove chaperonin 10 caused the improvements, because it did not compare the treated patients with a randomly chosen control group of patients given a placebo.

"It's potentially a 'natural' therapy that ought to have less toxicity than existing treatments -- but all these things need to be tested in a larger study," he said.

Headline: Protein's promise treating **arthritis**

Author: Adam Cresswell Health editor

Edition: 1 - All-round Country

Section: Local

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**Thursday 24 August 2006**



## Brisbane firm makes arthritis breakthrough

Author: James McCullough  
Publication: Courier Mail (005,Thu 24 Aug 2006)  
Edition: 1 - First with the news  
Keywords: **arthritis (4)**

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SOME relief may be in sight for **arthritis** sufferers thanks to a small Brisbane private biopharmaceutical development company, C-Bio Ltd.

The group is behind what researchers yesterday hailed as a medical breakthrough, discovering a new anti-inflammatory compound which could provide new hope for **arthritis** sufferers.

An exploratory study published in the international medical journal, The Lancet, shows that the compound, known as chaperonin 10, proved in a double blind trial that it was safe and effective in the treatment of rheumatoid **arthritis**.

The study findings show that clinical improvement was obtained in all patients who completed the trial.

A small group of patients in the trial at the highest dose level experienced up to a 70 per cent improvement in symptoms and clinical remission was achieved in 13 per cent of patients.

Headline: Brisbane firm makes **arthritis** breakthrough  
Author: James McCullough  
Edition: 1 - First with the news  
Section: News

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**Thursday 24 August 2006**

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# Herald Sun

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## Protein hope in arthritis

Author: MICHELLE POUNTNEY, health reporter

Publication: Herald Sun (032, Thu 24 Aug 2006)

Edition: 1 - FIRST

Keywords: **arthritis (8)**

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AUSTRALIAN researchers have discovered a new anti-inflammatory protein that could help treat rheumatoid **arthritis**.

The protein known as chaperonin 10, is a protein that occurs naturally in the body but harnessing its properties as a drug helps turn down the overactive immune systems of people with rheumatoid **arthritis**.

Chaperonin 10 works naturally in everybody to fight off inflammation when it flares in the body.

Rheumatoid **arthritis**, which affects more than 200,000 Australians, occurs when a person's immune system attacks the tissues lining the joints, causing pain, heat and swelling.

A small study of 23 **arthritis** sufferers, published in The Lancet, found all patients experienced some improvement in their symptoms during the 12-week trial.

Researchers from Monash University, the University of Queensland, and Royal Perth Hospital conducted the trial using a compound containing the protein, which was developed by Queensland biotech company CBio.

Those in the study had moderate to severe forms of the disease and were given either 5mg, 7.5mg or 10mg of chaperonin 10 intravenously twice a week.

Those who received the highest doses in a study had 70 per cent improvement in symptoms and 13 per cent went in to remission from the disease.

Symptoms began to ease from day 14 of the study in all groups and the improvement was most rapid in the 10mg group.

"Administration of chaperonin 10 limits excessive immune activation and slows the pathological processes of auto-immune and chronic inflammatory diseases such as rheumatoid **arthritis**," said CBio chief executive Dr Wolf Hanisch.

But some patients suffered side effects including exacerbation of their **arthritis** and upper respiratory tract infections.

Only one adverse event, a patient who developed myalgia, or diffuse muscle pain, was rated as severe.

The chaperonin 10 used in the study differs from the type that occurs naturally in the body only slightly, so researchers believe the chance of the body reacting badly to the drug is small.

"Our findings suggest that treatment of individuals with active rheumatoid **arthritis** with chaperonin 10 results in short-term improvement of disease activity indicators with improvements in symptoms seen as early as day 14 and sustained to day 84 of treatment," the researchers wrote.

Dr Hanisch said he hoped it could eventually be used to treat other auto-immune conditions such as psoriasis.

A trial of 40 people will start this year to work out the best dose size and when it should be administered, before large scale trials begin.

Headline: Protein hope in **arthritis**

Author: MICHELLE POUNTNEY, health reporter

Edition: 1 - FIRST

Section: NEWS

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**Thursday 24 August 2006**

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# The West Australian

## Found: the drug to beat arthritis

Author: CATHY O'LEARY MEDICAL EDITOR  
Publication: The West Australian (1,Thu 24 Aug 2006)  
Edition: STATE  
Keywords: **arthritis (7)**

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Australian researchers have heralded a significant breakthrough in the battle against **arthritis** with the discovery of a natural protein which could bring pain relief to thousands of sufferers.

Scientists at Royal Perth Hospital revealed yesterday that the protein fought off so-called bad proteins that caused the inflammation, offering patients the prospect of remission.

The team from Perth, Melbourne and Brisbane said the first human trial of the compound, known as chaperonin 10, in patients with rheumatoid **arthritis** had returned highly promising results.

About 80 per cent of the 23 patients had significantly reduced joint inflammation, while one in five effectively went into remission.

Writing in the international medical journal The Lancet, the doctors said it offered new hope for people with **arthritis** because, unlike traditional treatments, chaperonin 10 was a natural protein normally found in the body and therefore had fewer side-effects.

The anti-inflammatory drug was developed by the Brisbane-based bio-pharmaceutical company CBio, which was partly funded by a Commonwealth Government grant.

The researchers said the protein worked by cooling the overactive immune systems of people with rheumatoid **arthritis**, a condition which causes the tissues lining the joints to swell and become painful.

It limited the amount of cytokines, otherwise known as messenger proteins, which play a key role in the body's immune response.

RPH consultant rheumatologist Andrew Taylor said cytokines were increased in the inflamed joints of patients with rheumatoid **arthritis**. While traditional medications could help, they were not specific so there was a higher risk of side-effects.

"With this study we selected people with long-standing rheumatoid **arthritis** who hadn't done well with previous treatments and we had almost 20 per cent who achieved remission, which is fabulous because you don't see that normally," Dr Taylor said.

"The majority of patients improved by 20 per cent, which is considered significant, and that was after only 12 weeks of treatment and the benefits still seemed to be continuing."

Headline: Found: the drug to beat **arthritis**

Author: CATHY O'LEARY MEDICAL EDITOR

Edition: STATE

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**ABC 702 Sydney (Sydney)**  
**21:00 News - 23/08/2006 - 09:04 PM**  
**Newsreader**  
**Station Ph: 02 8333 2138**

An Australian design **drug** is being hailed as a potential new **treatment** for rheumatoid **arthritis**.

**Duration:** 0:45  
**Summary ID:** S00023154417  
© Media Monitors

**ABC 774 Melbourne (Melbourne)**  
**20:00 News - 23/08/2006 - 08:03 PM**  
**Newsreader**  
**Station Ph: 03 9626 1771**

An Aus-designed **drug** is being hailed as a potential new **treatment** for rheumatoid **arthritis**.

**Interviewees:** Assoc Prof Stephen Hall, Cabrini Hospital(\*)  
**Duration:** 0:44  
**Summary ID:** M00023154296  
© Media Monitors

**ABC Channel 2 (Brisbane)**  
**ABC News - 23/08/2006 - 07:19 PM**  
**Andrew Lofthouse**  
**Station Ph: 07 3377 5356**

A new **arthritis drug** being tested by the Uni of Qld has had excellent **results** in preliminary trials.

**Interviewees:** Daina Vanags, Biotech **Researcher**; Steven Hall, Rheumatologist  
**Duration:** 1:20  
**Summary ID:** B00023153439  
© Media Monitors

**ABC Channel 2 (Adelaide)**  
**ABC News - 23/08/2006 - 07:19 PM**  
**Michael Smyth**  
**Station Ph: 08 8343 4331**

A new **drug** is being hailed as a significant advance in **treating** rheumatoid **arthritis**. Scientists have discovered a protein which has led to dramatic improvement in early trials.

**Interviewees:** Dr Daina Vanags, Biotech Australia.; Steven Hall, rheumatologist.  
**Duration:** 1:21  
**Summary ID:** A00023153728  
© Media Monitors

**ABC Channel 2 (Sydney)**  
**ABC News - 23/08/2006 - 07:17 PM**  
**Juanita Phillips**  
**Executive Producer Mr Phil O`Keefe 02 8333 4782**

A new **arthritis drug** is being hailed as a big advance. Scientists at the University of Queensland have turned a naturally occurring protein into a **treatment**.

**Interviewees:** Dr Daina Vainags, Biotech **Researcher**; Steven Hall, Rheumatologist  
**Duration:** 1:20  
**Summary ID:** S00023153408  
© Media Monitors

**ABC Channel 2 (Canberra)**  
**ABC News - 23/08/2006 - 07:14 PM**  
**Newsreader**  
**Executive Producer Mr Phil O`Keefe 02 8333 4782**

A new **drug** is being welcomed as a significant development in **treating** rheumatoid **arthritis**. University of Queensland scientists have transformed a natural protein into the **drug** which switches off the condition. Current **drugs** stop only one source of inflammation

**Interviewees:** Daina Vanags, Biotech **researcher**; Steven Hall, Rheumatologist  
**Vision:** cppendorf  
**Duration:** 1:25  
**Summary ID:** C00023153376  
© Media Monitors

**ABC 612 Brisbane (Brisbane)**  
**19:00 News - 23/08/2006 - 07:06 PM**  
**Newsreader**  
**Station Ph: 07 3377 5222**

An Aust designed **drug**, based on a compound found naturally in the body, is being hailed as a potential new **treatment** for rheumatoid **arthritis**.

**Interviewees:** Stephen Hall, Cabrini Hospital, Melbourne  
**Duration:** 0:45  
**Summary ID:** B00023153375  
© Media Monitors

**Channel 7 (Adelaide)**  
**Seven News - 23/08/2006 - 06:11 PM**  
**Jane Doyle & John Riddell**  
**Station Ph: 08 8342 7738**

**Arthritis** sufferers who could not walk are now up and dancing thanks to a discovery by Australian **researchers**. A protein has shown positive signs in early testing.

**Interviewees:** Barbara Johnson, scientist.; Dianne Housego, **arthritis** sufferer  
**Duration:** 1:24  
**Summary ID:** A00023152897  
© Media Monitors

**Channel 7 (Perth)**  
**Seven News - 23/08/2006 - 06:11 PM**  
**Yvette Mooney/Rick Ardon**  
**Station Ph: 08 9344 0777**

Aust **researchers** have developed a **treatment** for **Arthritis** called **Chaperonin 10(\*)** that has reduced pain in patients during trials, and in some cases forced the condition into remission. **Arthritis** sufferer Dianne Housego says the smallest tasks can sometimes be the hardest for her. Immunologist Dr Barbara Johnson says one trial participant who had been unable to walk

properly was able to dance after the **treatment**. Philip Hopkin from the **Arthritis Foundation** says Rheumatoid **Arthritis** is a devastating disease. It is hoped **Chaperonin 10** can be on the market within two years.

**Interviewees:** Dianne Housego, **Arthritis** Sufferer; Dr Barbara Johnson, Immunologist; Philip Hopkin, **Arthritis Foundation**

**Duration:** 1:20

**Summary ID:** P00023154353

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**Channel 7 (Sydney)**

**Seven News - 23/08/2006 - 06:10 PM**

**Ian Ross**

**Station Ph: 02 9877 7777**

Australian **researchers** have developed a new, successful **arthritis treatment** using the protein **chaperonin 10**.

**Interviewees:** Dianne Housego, **Arthritis** Patient; Dr Barbara Johnson, Immunologist; Philip Hopkin, **Arthritis Foundation**

**Duration:** 1:36

**Summary ID:** S00023152385

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**Channel 7 (Melbourne)**

**Seven News - 23/08/2006 - 06:09 PM**

**Peter Mitchell**

**Station Ph: 03 9697 7777**

Australian **researchers** have developed a new **treatment** for sufferers of rheumatoid **arthritis**, which may be commercially available within two years.

**Interviewees:** Dianne Housego, **Arthritis** Sufferer.; Dr Barbara Johnson, Immunologist.

**Duration:** 1:21

**Summary ID:** M00023152380

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**Channel 7 (Brisbane)**

**Seven News - 23/08/2006 - 06:09 PM**

**Kay McGrath and Rod Young**

**Chief of Staff Mr Warren Evans 07 3368 7363**

Australian **research** has developed a product that will help **arthritis** sufferers. In a trial **arthritis** sufferers were injected with the chemical. The same protein is offering hope to sufferers of MS.

**Interviewees:** Barbara Johnson, Immunologist; Philip Hopkins, **Arthritis Foundation**

**Duration:** 1:35

**Summary ID:** B00023152369

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**Channel 10 (Perth)**

**Ten News - 23/08/2006 - 05:33 PM**

**Tim Webster & Charmaine Dragun**

**Station Ph: 08 9345 1010**

Australian **researchers** are at the forefront of **research** into a **treatment** for **arthritis**, and they

believe they are on the verge of a breakthrough. 70% of people who took an experimental **drug** experienced some improvement in their condition. The **drug** contains a substance found in the human body that combats the inflammation experienced as part of the condition. The **drug** is being tested for use in other inflammatory diseases. Rheumatoid **arthritis** sufferer Dianne Housego says no one wants to live with the pain of **arthritis**, so a new **treatment** is wonderful. **Researcher** Dr **Wolf Hanisch** says the **drug** can cure chronic inflammation.

**Interviewees:** Dianne Housego, **Arthritis** Sufferer; Dr **Wolf Hanisch**, **Researcher**

**Duration:** 1:30

**Summary ID:** P00023154530

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**Channel 10 (Sydney)**

**TEN News - 23/08/2006 - 05:28 PM**

**Bill Woods & Deborah Knight**

**Station Ph: 02 9650 1010**

Qld scientists have discovered a protein that eases the symptoms of **arthritis** sufferers when used in high doses. The **drug** is also being tested on other diseases like lupis and psoriasis.

**Interviewees:** Dianne Housego, **Arthritis** Sufferer; Dr **Wolf Hanisch**, Chief Executive, **CBio** Ltd

**Vision:** **CBio**

**Duration:** 1:28

**Summary ID:** S00023151736

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**Channel 10 (Brisbane)**

**TEN News - 23/08/2006 - 05:27 PM**

**Marie-Louise Theile & Bill McDonald**

**News Director Ms Cathie Schnitzerling 07 3214 1076**

QLD **researchers** are at the forefront of a new **arthritis treatment**, **chaperonin ten** [\*] that is making a big difference to sufferers.

**Interviewees:** Kerry [\*], **Arthritis** Sufferer; **Wolf Hanisch**, CEO, C-Bio Ltd

**Vision:** C-Bio Ltd; Oppendorf

**Duration:** 1:42

**Summary ID:** B00023151723

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**Channel 10 (Adelaide)**

**TEN News - 23/08/2006 - 05:24 PM**

**George Donikian & Rebecca Morse**

**Station Ph: 08 8267 1006**

Australian **researchers** are **finding** that a human protein is having remarkable success in **treating** inflammatory conditions, including **arthritis** and lupus. Qld scientists have found the protein to have remarkable success when used in high doses.

**Interviewees:** Dianne Housego, **arthritis** sufferer; Dr **Wolf Hanisch**, **CBio**

**Duration:** 1:33

**Summary ID:** A00023152122

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**ABC 612 Brisbane (Brisbane)**

**17:00 News - 23/08/2006 - 05:08 PM**

**Newsreader**  
**Station Ph: 07 3377 5222**

Trials show an Aust designed **drug** may hold hope for people with rheumatoid **arthritis**.

**Mentions:** University of Qld  
**Duration:** 0:32  
**Summary ID:** B00023151422  
© Media Monitors

**ABC 936 Hobart (Hobart)**  
**17:00 News - 23/08/2006 - 05:06 PM**  
**Newsreader**  
**Station Ph: 03 6235 3341**

An Austn designed **drug** is being hailed as a potential **treatment** for rheumatoid **arthritis**, as hospital trials have shown it to significantly reduce symptoms. Steven Hall explains the **results** of the trials.

**Interviewees:** Steven Hall, Associate Professor, Cabrini Hospital  
**Duration:** 0:45  
**Summary ID:** M00023151484  
© Media Monitors

**ABC 891 Adelaide (Adelaide)**  
**17:00 News - 23/08/2006 - 05:05 PM**  
**Newsreader**  
**Producer Mr Phil Eldridge 08 8343 4331**

An Austn designed **drug** is being hailed as a potential new **treatment** for rheumatoid **arthritis**. Patients trialling the **drug** reported improvements in their conditions.

**Interviewees:** Associate Professor Stephen Hall, Cabrini Hospital  
**Duration:** 0:43  
**Summary ID:** A00023151970  
© Media Monitors

**2GB (Sydney)**  
**16:30 News - 23/08/2006 - 04:37 PM**  
**Newsreader**  
**Station Ph: 02 8570 0000**

New **research** shows a protein which naturally fights inflammation in the body could be the key to relief for **arthritis** sufferers.

**Duration:** 0:10  
**Summary ID:** S00023150995  
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**Channel 7 (National Australia)**  
**Seven News at 4:30 - 23/08/2006 - 04:35 PM**  
**Rebecca Maddern**  
**Station Ph: 07 3369 7777**

An Australian Discovery could change the lives of **Arthritis** sufferers. The **Treatment** is not a cure for **arthritis**, but rather a **treatment** that reduces pain. The **treatment** could help other

ailments.

**Interviewees:** Dr **Wolf Hanisch**, **CBIO(\*)** Centre

**Duration:** 2:23

**Summary ID:** B00023150937

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**ABC 774 Melbourne (Melbourne)**

**16:00 News - 23/08/2006 - 04:07 PM**

**Newsreader**

**Station Ph: 03 9626 1771**

An Australian-designed **drug** may provide a new **treatment** for Rheumatoid **Arthritis**, after positive **results** in recent trials at three hospitals.

**Interviewees:** Associate Professor Stephen Hall, Cabrini Hospital.

**Duration:** 0:43

**Summary ID:** M00023150676

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**ABC 612 Brisbane (Brisbane)**

**16:00 News - 23/08/2006 - 04:02 PM**

**Newsreader**

**Station Ph: 07 3377 5222**

An Austn designed **drug** is being hailed as a successful **treatment** for rheumatoid **arthritis**.

**Interviewees:** Stephen Hall, Assoc Prof, Cabrini Hospital

**Duration:** 0:43

**Summary ID:** B00023150578

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**6PR (Perth)**

**16:00 News - 23/08/2006 - 04:01 PM**

**Newsreader**

**Station Ph: 08 9325 7398**

New **research** has discovered a protein that naturally fights inflammation in the body, which could be the key to relief for **arthritis** sufferers.

**Duration:** 0:18

**Summary ID:** P00023152457

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**4BC (Brisbane)**

**15:00 News - 23/08/2006 - 03:02 PM**

**Newsreader**

**News Director Mr Steve Speziale 07 3908 8200**

The company running clinical trials for an Australian **arthritis drug** say the **results** may offer hope for patients with rheumatoid **arthritis**.

**Mentions:** University of Queensland

**Duration:** 0:20

**Summary ID:** B00023149861

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**ABC 720 Perth (Perth)**  
**13:00 News - 23/08/2006 - 01:07 PM**  
**Newsreader**  
**Station Ph: 08 9220 2700**

**Results** of a clinical trial show an Australian designed **drug** may offer hope for patients with rheumatoid **arthritis**. The **drug** was developed by scientists at the University of Queensland and has been trialled at three hospitals around Australia.

**Duration:** 0:27  
**Summary ID:** P00023149974  
© Media Monitors

**ABC 936 Hobart (Hobart)**  
**13:00 News - 23/08/2006 - 01:04 PM**  
**Newsreader**  
**Station Ph: 03 6235 3341**

**Results** of a clinical trial show an Austn designed anti-inflammatory **drug** may offer hope for patients will rheumatoid **arthritis**. The **drug** was developed at the University of Qld and has been trialled at three Austn hospitals.

**Duration:** 0:25  
**Summary ID:** M00023148675  
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**ABC 891 Adelaide (Adelaide)**  
**13:00 News - 23/08/2006 - 01:04 PM**  
**Newsreader**  
**Producer Mr Phil Eldridge 08 8343 4331**

**Results** of a clinical trial show an Austn designed **drug** may offer hope for patients with rheumatoid **arthritis**. It was developed at the University of Queensland.

**Duration:** 0:28  
**Summary ID:** A00023148823  
© Media Monitors

**ABC Channel 2 (National Australia)**  
**Midday Report - 23/08/2006 - 12:22 PM**  
**Paul Lockyer**  
**Station Ph: 03 9626 1500**

An Australian designed **drug** developed at the Uni of Qld is being hailed as a potential advance in the **treatment** of Rheumatoid **Arthritis**. The **drug** has been tested at three hospitals in Aust. The **drug** is based on protein which is produced naturally in the body.

**Mentions:** Valancit(\*)  
**Duration:** 0:23  
**Summary ID:** M00023147200  
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**2MC FM (Port Macquarie)**  
**Across Australia - 23/08/2006 - 10:07 AM**  
**Charles Wooley**  
Dr Darcy says he is at a meeting with C-Bio (\*) speaking about a naturally occurring protein

Chaperonin-10 which naturally calms arthritis and inflammatory conditions. Dr Darcy speaks about clinical trials and the cost of new medications for chronic illness. Dr Darcy says coming up on his program is a new technique for people to get their money back when they go to the doctor. Dr Darcy says Yakult is one of the only products of its kind that actually work. Dr Darcy says they will also look at paracetamol as one of the best treatments for chronic back pain.

**Interviewees:** Dr John Darcy

**Duration:** 9:28

**Summary ID:** B00023144945

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