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Health Supreme by Sepp Hasslberger

Networking For A Better Future - News and perspectives you may not find in the media

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media

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Open Source Medicine: India Digitizes Ayurvedic Knowledge The genetic-modification multinationals have been trying to patent

"discoveries" of plants and remedies that are actually part and parcel of ancient cultures. Basmati rice from India, on which the Texan company RiceTec obtained a

patent for a cross-breed with American long-grain rice, is a recent

nations, according to the Third World Network.

example. The Indian government objected to the patent arguing that Basmati already has the characteristics that RiceTec obtained its patent on. A patent on a neem-based pesticide was granted to WR Grace chemical company, but is being contested by more than 200 organisations from 35

There is a word for this kind of aggressive patenting of natural resources: biopiracy. The trouble goes back to a wrong turn we took in patent laws, allowing patents on life forms. These patents spawned a whole industry of

genetic modification (GM) adding no value to human production except

for the increased shareholder value of GM-multinationals.

And while traditional knowledge is disregarded when patent applications are decided, the European Union has gone so far as to exclude, some say unfairly so, most herbal medicines coming from India, China and other non-European cultures when making its own "traditional herbal

The government of India has now decided that enough is enough. The new Traditional Knowledge Digital Library is designed to make the existing

medicines" directive.

knowledge of its ancient health systems - ayurveda, unani and siddha available in a digital format in five languages: English, French, German, Japanese and Spanish. BBC has an article about this: India hits back in 'bio-piracy' battle

By Soutik Biswas BBC News, Delhi

In a quiet government office in the Indian capital, Delhi, some 100 doctors are hunched over computers poring over ancient medical texts and keying

in information. These doctors are practitioners of ayurveda, unani and siddha, ancient Indian medical systems that date back thousands of years.

wading through a dog-eared 500-year-old text book for information on a medicine derived from the mango fruit.

One of them is Jaya Saklani Kala, a young ayurveda doctor, who is

"Soon the world will know the medicine, and the fact that it originated from India," she says. With help from software engineers and patent examiners, Ms Kala and her

of India's traditional medical knowledge, the first of its kind in the world. 'Bio-piracy'

The ambitious \$2m project, christened Traditional Knowledge Digital Library, will roll out an encyclopaedia of the country's traditional

colleagues are putting together a 30-million-page electronic encyclopaedia

medicine in five languages - English, French, German, Japanese and Spanish - in an effort to stop people from claiming them as their own and patenting them.

"bio-piracy" for a long time.

and folk traditions.

Litigation

properties of turmeric.

Indian knowledge.

The electronic encyclopaedia, which will be made available next year, will contain information on the traditional medicines, including exhaustive references, photographs of the plants and scans from the original texts. Indian scientists say the country has been a victim of what they describe as

"When we put out this encyclopaedia in the public domain, no one will be able to claim that these medicines or therapies are their inventions. Till

now, we have not done the needful to protect our traditional wealth," says

Ajay Dua, a senior bureaucrat in the federal commerce ministry.

Putting together the encyclopaedia is a daunting task.

For one, ayurvedic texts are in Sanskrit and Hindi, unani texts are in Arabic and Persian and siddha material is in Tamil language. Material from these texts is being translated into five international languages, using

sophisticated software coding. The sheer wealth of material that has to be read through for information is enormous - there are some 54 authoritative 'text books' on ayurveda alone, some thousands of years old.

Then there are nearly 150,000 recorded ayurvedic, unani and siddha

yoga, which originated in India more than 5,000 years ago.

knowledge wealth" says VK Gupta, the project's director.

"People outside India are not aware of our immense traditional

Under normal circumstances, a patent application should always be rejected if there is prior existing knowledge about the product. But in most of the developed nations like United States, "prior existing

knowledge" is only recognised if it is published in a journal or is available on a database - not if it has been passed down through generations of oral

medicines; and some 1,500 asanas (physical exercises and postures) in

But information about traditional medicine has never been culled from their texts, translated and put out in the public domain.

The irony here is that India has suffered even though its traditional

knowledge, as in China, has been documented extensively.

fighting legal battles against the patenting of turmeric and neem-based medicines. In 1995, the US Patent Office granted a patent on the wound-healing

No wonder then that India has been embroiled in some high-profile patent litigation in the past decade - the government spent some \$6m alone in

Indian scientists protested and fought a two-year-long legal battle to get the patent revoked.

In 1998 the US Patent Office granted patent to a local company for new strains of rice similar to basmati, which has been grown for centuries in the Himalayan foothills of north-west India and Pakistan and has become popular internationally. After a prolonged legal battle, the patent was revoked four years ago.

Last year, India won a 10-year-long battle at the European Patent Office against a patent granted on an anti-fungal product, derived from neem, by successfully arguing that the medicinal neem tree is part of traditional

And, in the US, an expatriate Indian yoga teacher has claimed copyright on a sequence of 36 yoga asanas, or postures. Dr Vinod Kumar Gupta, who is leading the traditional wealth encyclopaedia project and heads India's National Institute of Science

plants by the year 2000, some 80% were plants of Indian origin. Practitioners of traditional medicines say their importance cannot be denied - according to the WHO, 70% of the people living in India use

traditional medicine for primary health care. Also, some 42% of the people living in the US and 70% of the people living in Canada have used traditional medicines at least once for

By one estimate, a quarter of the new drugs produced in the US are plantbased, giving the sometimes much-criticised practitioners of alternative

treatment.

Communication and Information Resources (Niscair), reckons that of the nearly 5,000 patents given out by the US Patent Office on various medical

traditional medicine something to cheer about.

The mammoth Indian encyclopaedia may finally give alternative medicine the shot in the arm it sorely needs.

India seems to be serious about this: