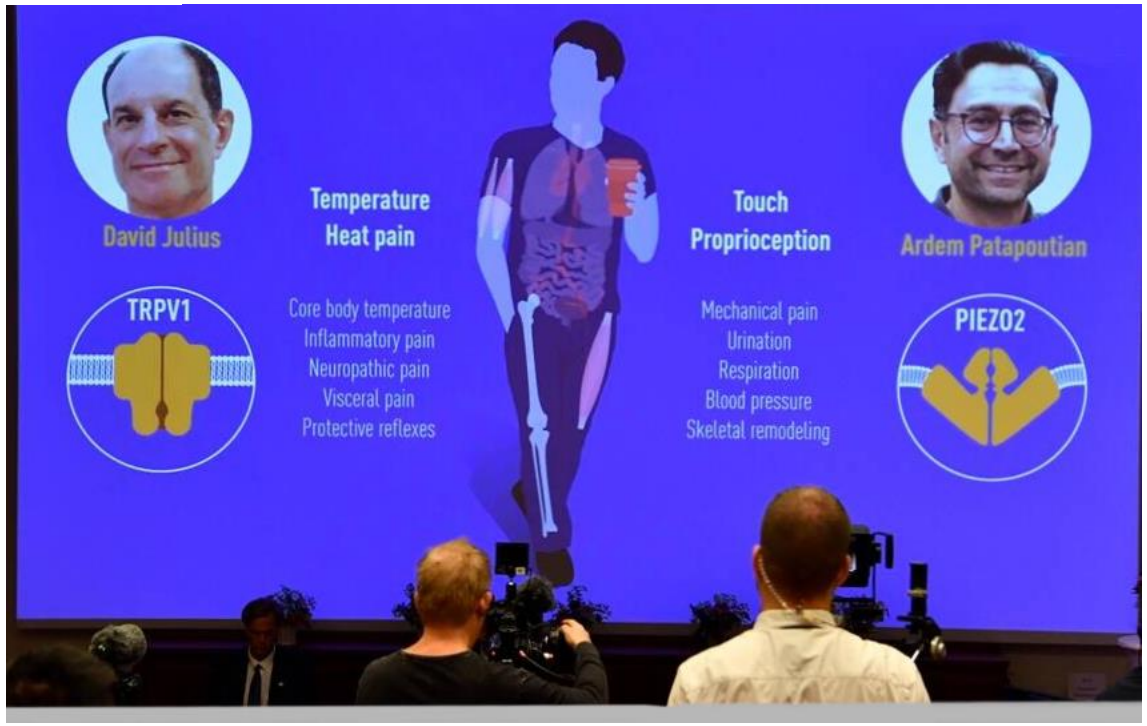
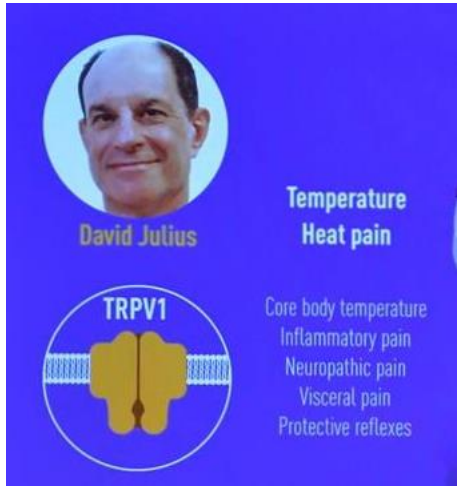
ScienceNews
INDEPENDENT JOURNALISM SINCE 1921

NEWS HEALTH & MEDICINE

Discovering how we sense temperature and touch wins the 2021 medicine Nobel Prize





TRPV1 Ionen-Kanal reagiert auf

- Hitzereize ab 42 °C
- Capsaicin und andere Vanillamine

de Souza Nascimento S, et al. 2013

Efficacy and safety of medicinal plants or related natural products for fibromyalgia: a systematic review.

Evid Based Complement Alternat Med 2013: 149468.

TRPV1 Ionenkanal reagiert auf

- Hitzereize ab 42 °C
- Capsaicin und andere Vanillamine
- Saures pH Milieu in der Grundsubstanz
- Cannabinoide

Review > J Complement Integr Med. 2020 Jun 18;18(1):1-7. doi: 10.1515/jcim-2020-0013.

Endocannabinoids release after Osteopathic Manipulative Treatment. A brief review

Andrea Buscemi [1], Simona Martino [1], Santi Scirè Campisi [1], Alessandro Rapisarda [1], Marinella Coco [2]

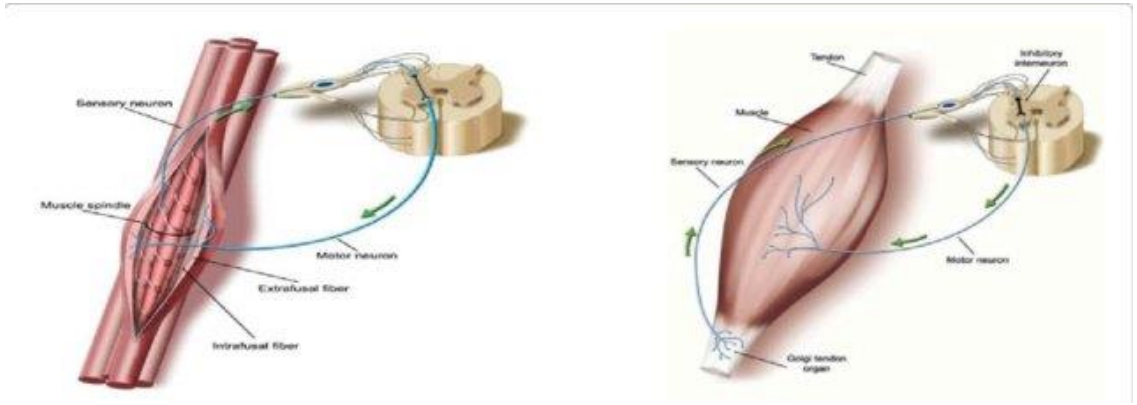
Palazzo E, et al. 2008
Role of TRPV1 receptors in descending modulation of pain.
Mol Cell Endocrinol. 2008 Apr 16;286(1-2 Suppl 1):S79-83.

Muller C, et al. 2020
A Closer Look at Anandamide Interaction With TRPV1.
Front Mol Biosci 21;7:144.

nature

Article | Published: 21 August 2019

Structure and mechanogating of the mammalian tactile channel PIEZO2



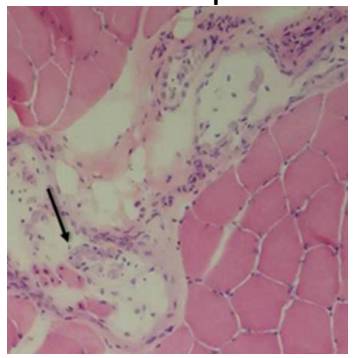
PIEZO2: A Novel Molecule Involved in the Development of AIS

Wu, Zhichong PhD[a]; Wang, Yuwen MS[a]; Xia, Chao PhD[a]; Feng, Zhenhua MS[a]; Qiu, Yong MD[a,b]; Cheng, Jack Chun-Yiu MD[b,c]; Xu, Leilei PhD[a,b]; Zhu, Zezhang MD[a,b] **Author Information**

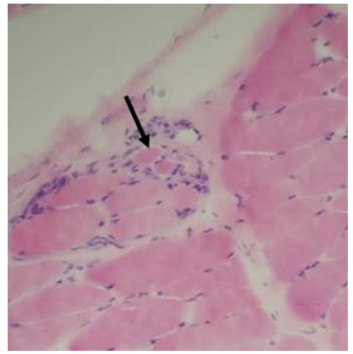
SPINE: February 1, 2020 - Volume 45 - Issue 3 - p E120-E125

Spine

Normale Spindel



Skoliose-Patient



Chesler AT et al. (2016) The Role of PIEZO2 in Human Mechanosensation.

N Engl J Med. 375: 1355-64

Cognitive Therapy and Research
https://doi.org/10.1007/s10608-021-10282-w

Published online: 21 December 2021

ORIGINAL ARTICLE

Myofascial Tissue and Depression

Johannes Michalak[1] · Lanre Aranmolate[1] · Antonia Bonn[1] · Karen Grandin[1] · Robert Schleip[2,3]

Table 1 Descriptive statistics (Study 1)

	Depressed patients ($n=40$)	Never-depressed control participants ($n=40$)
Stiffness: *M* (*SD*)	2.55 (1.02)	1.96 (0.82)
Elasticity: *M* (*SD*)	0.56 (0.42)	0.33 (0.25)

- Depressive patients (n=40) displayed **heightened stiffness and reduced elasticity** of the myofascial tissue
- Patients (n=69) showed a **reduced negative memory bias** and more positive affect after foam rolling self-application compared to patients in the placebo condition.

Pain 117 (2005) 97–103

PAIN

www.elsevier.com/locate/pain

Pain perception in major depression depends on pain modality

Karl-Jürgen Bär*, Stanislaw Brehm, Michael Karl Boettger, Silke Boettger, Gerd Wagner, Heinrich Sauer

Prof. K-H Bär
University of Jena

- Investigated 30 patients suffering from a major depressive disorder and 30 matched controls

- The study found these difference in depressive patients compared with controls
  - hyperalgesia to ischemic muscle pain (from deeper muscular tissues)
  - **hypoalgesia** to heat and electrical pain on body surface