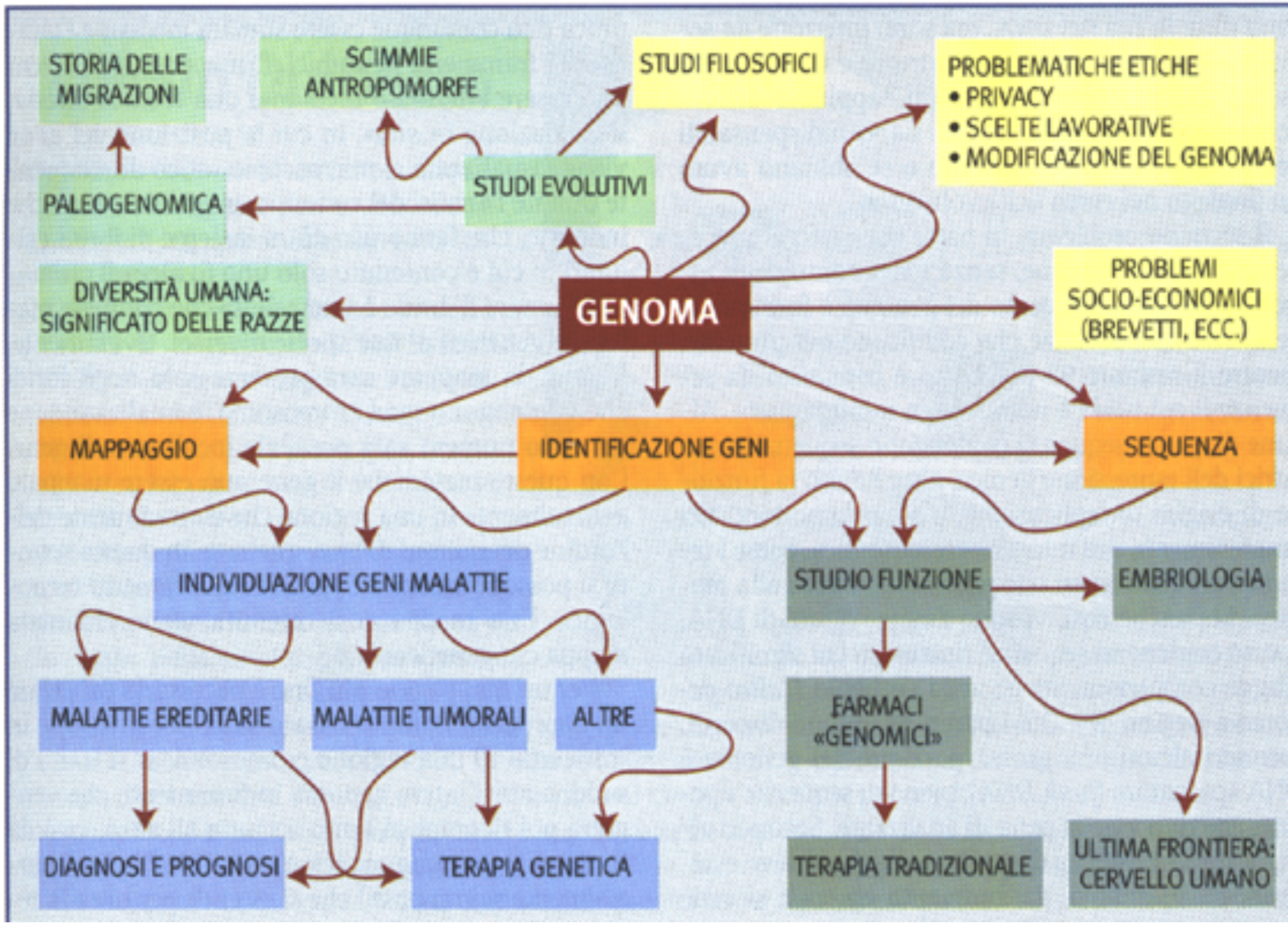
STORIA DELLE MIGRAZIONI
SCIMMIE ANTROPOMORFE
STUDI FILOSOFICI
PROBLEMATICHE ETICHE
• PRIVACY
• SCELTE LAVORATIVE
• MODIFICAZIONE DEL GENOMA
PALEOGENOMICA
STUDI EVOLUTIVI
DIVERSITÀ UMANA: SIGNIFICATO DELLE RAZZE
GENOMA
PROBLEMI SOCIO-ECONOMICI (BREVETTI, ECC.)
MAPPAGGIO
IDENTIFICAZIONE GENI
SEQUENZA
INDIVIDUAZIONE GENI MALATTIE
STUDIO FUNZIONE
EMBRIOLOGIA
MALATTIE EREDITARIE
MALATTIE TUMORALI
ALTRE
FARMACI «GENOMICI»
DIAGNOSI E PROGNOSI
TERAPIA GENETICA
TERAPIA TRADIZIONALE
ULTIMA FRONTIERA: CERVELLO UMANO

MAY 27, 2013
TIME
THE
ANGELINA
EFFECT
Angelina Jolie's double mastectomy puts genetic testing in the spotlight. What her choice reveals about calculating risk, cost and peace of mind
BY JEFFREY KLUGER & ALICE PARK
time.com

The New York Times

The Opinion Pages

OP-ED CONTRIBUTOR

My Medical Choice

By ANGELINA JOLIE

Published: May 14, 2013 | 1712 Comments

I choose not to keep my story private because there are many women who do not know that they might be living under the shadow of cancer. It is my hope that they, too, will be able to get gene tested, and that if they have a high risk they, too, will know that they have strong options.

MASTECTOMY. "RADICAL."

"For a radical preventive decision like this one, I would not have trusted any other physicians."

Tamara Donovan
Breast Cancer Previvor

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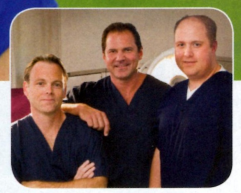

CENTER FOR RESTORATIVE BREAST SURGERY

Affiliated with St. Charles Surgical Hospital, the only hospital in the world dedicated to reconstructive surgery for women facing breast cancer.

Frank J. DellaCroce, MD, FACS, Scott K. Sullivan, MD, FACS and Christopher G. Trahan, MD

Internationally recognized leaders in the most advanced breast reconstructive surgeries, including the immediate nipple-sparing mastectomy.

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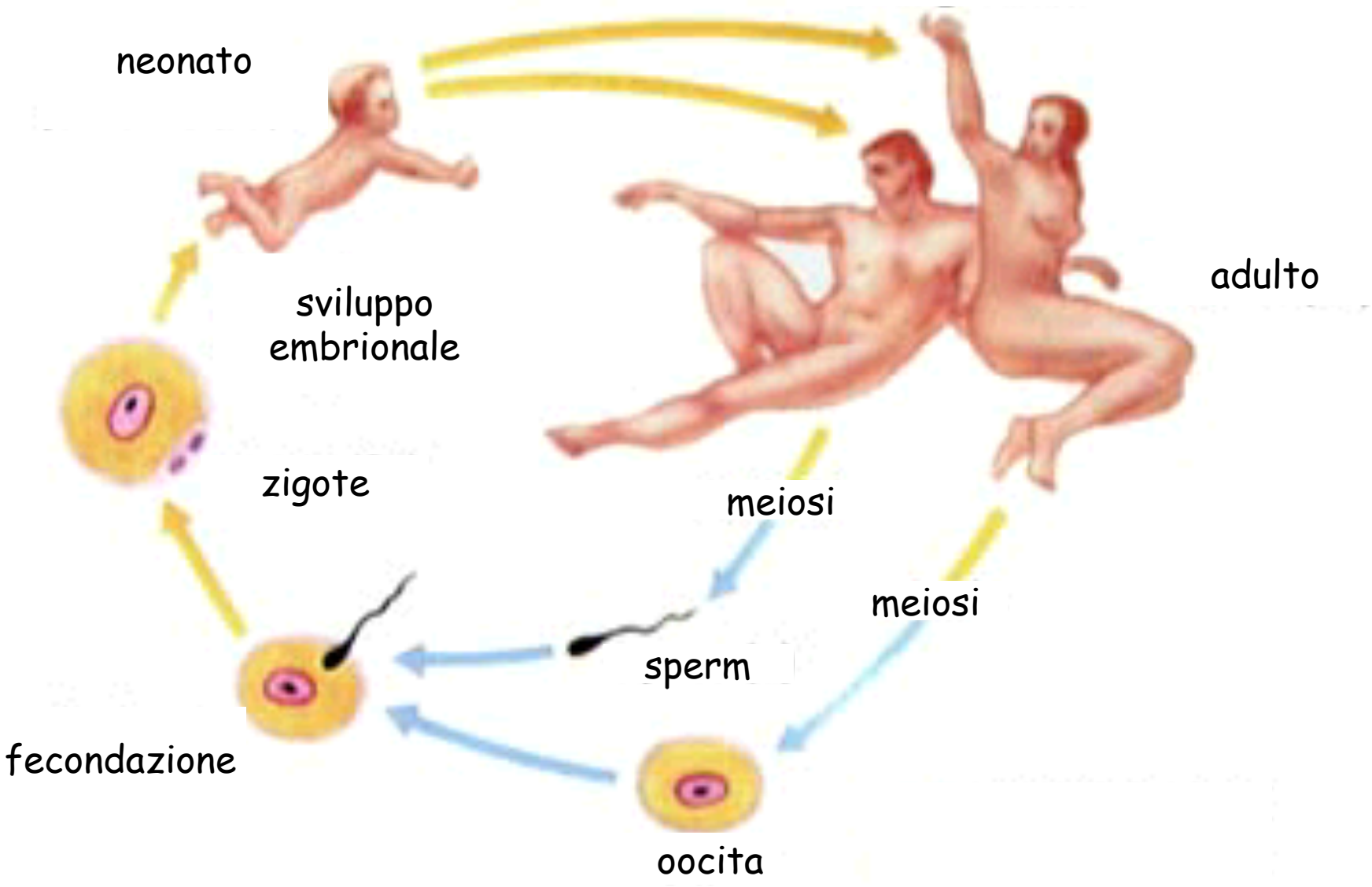
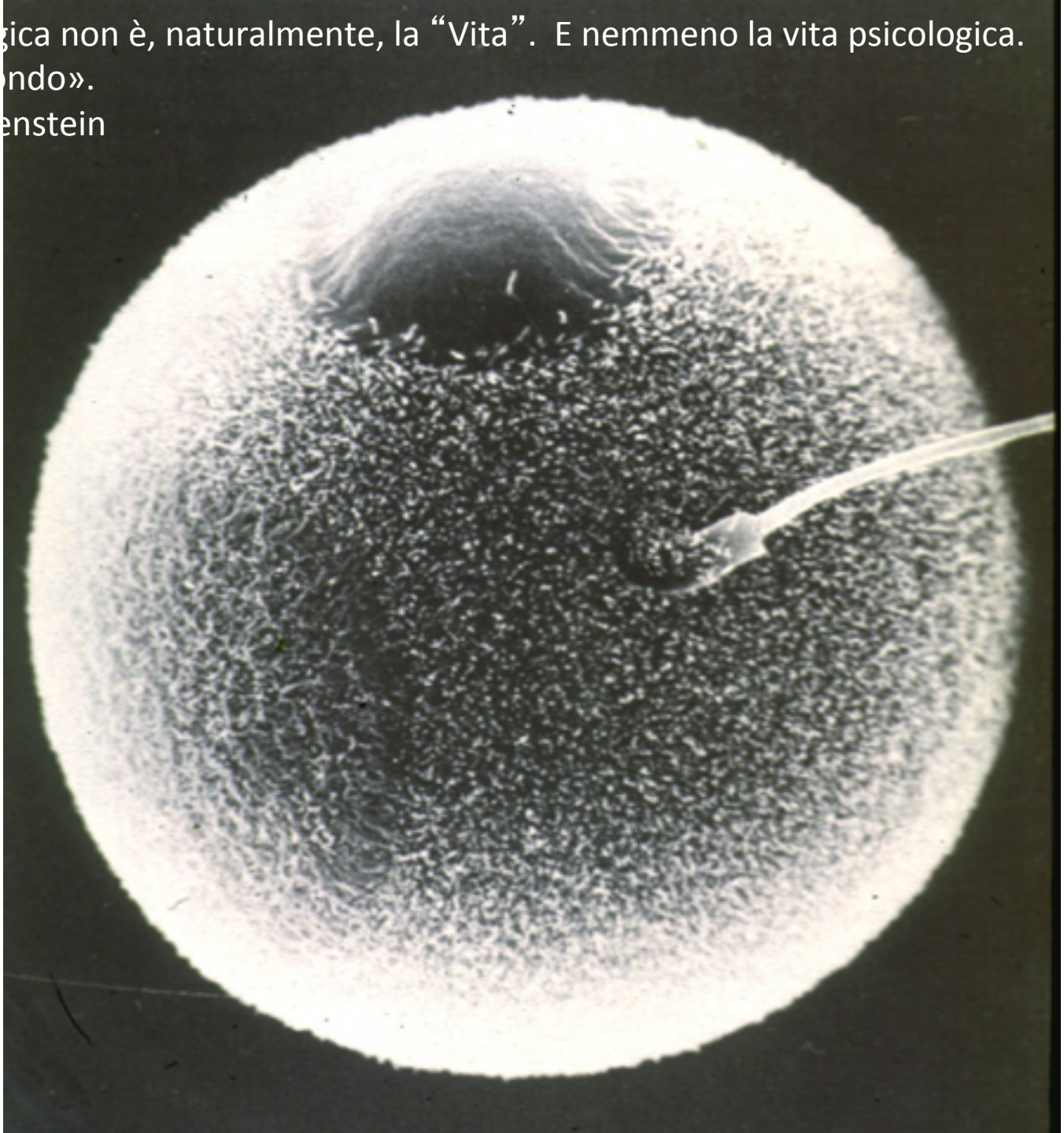
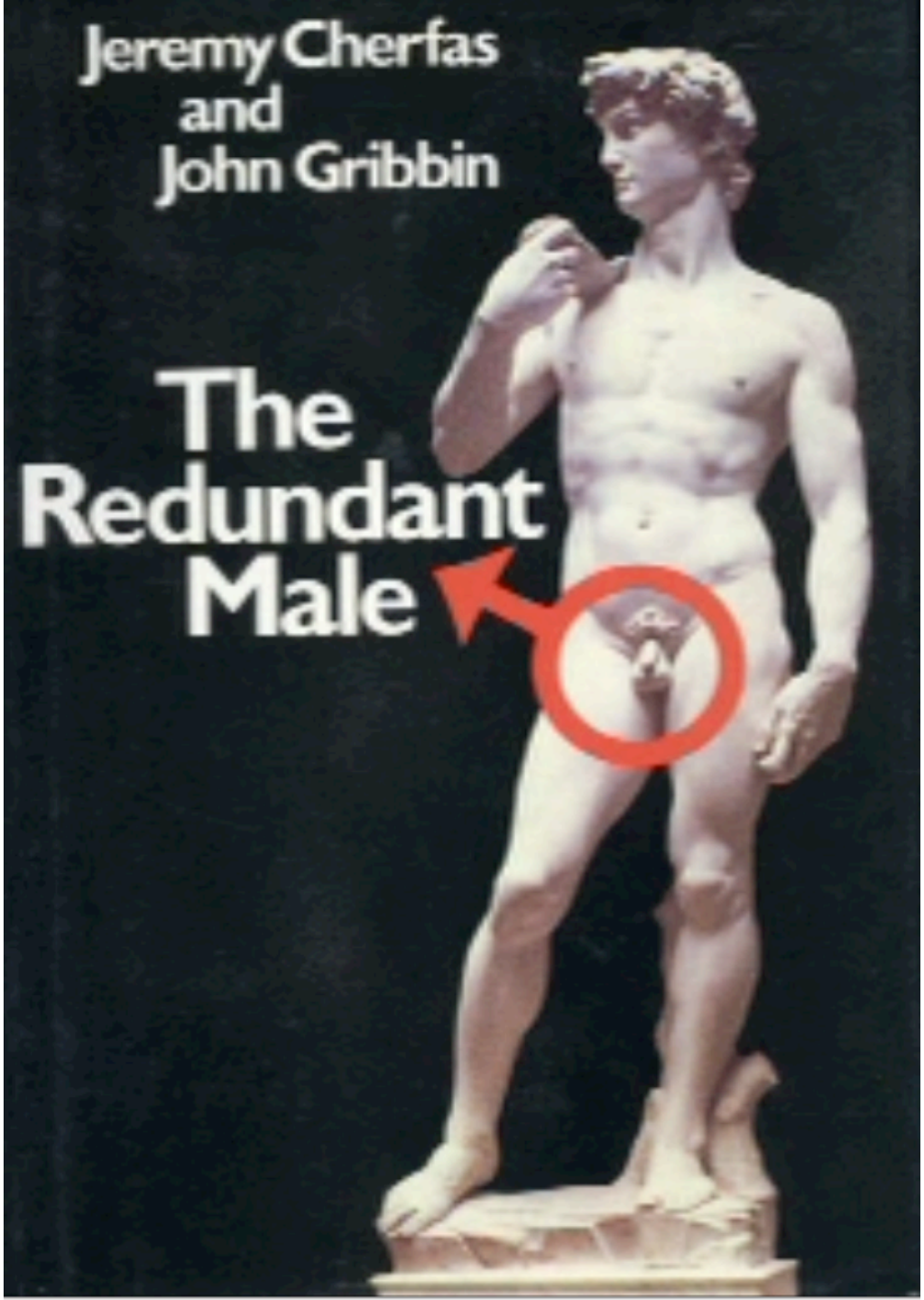
Crescita e differenziamento



gica non è, naturalmente, la “Vita”. E nemmeno la vita psicologica.
ndo».
enstein




Jeremy Cherfas
and
John Gribbin
The
Redundant
Male

THE END OF MEN

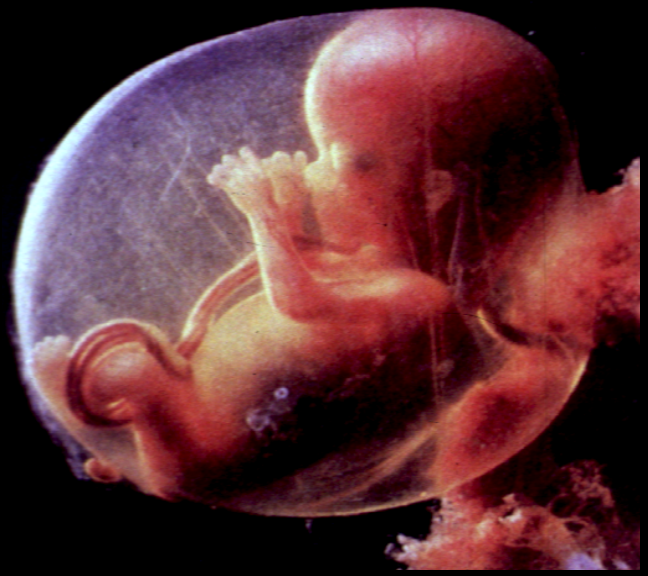
AND THE RISE OF WOMEN

HANNA ROSIN

BULLITT

ww.BlivSæddon

www.EuropeanSpermbank.com



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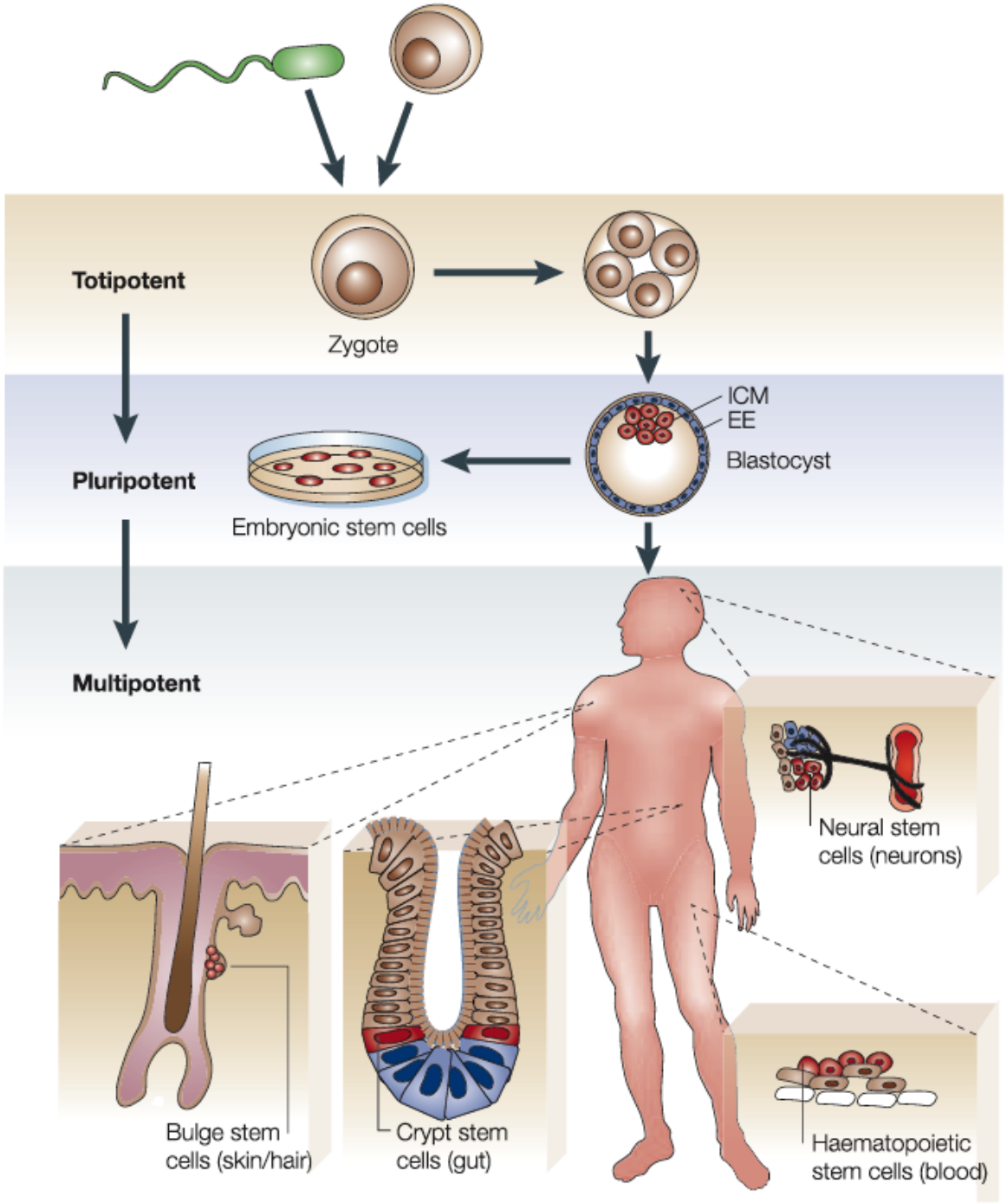
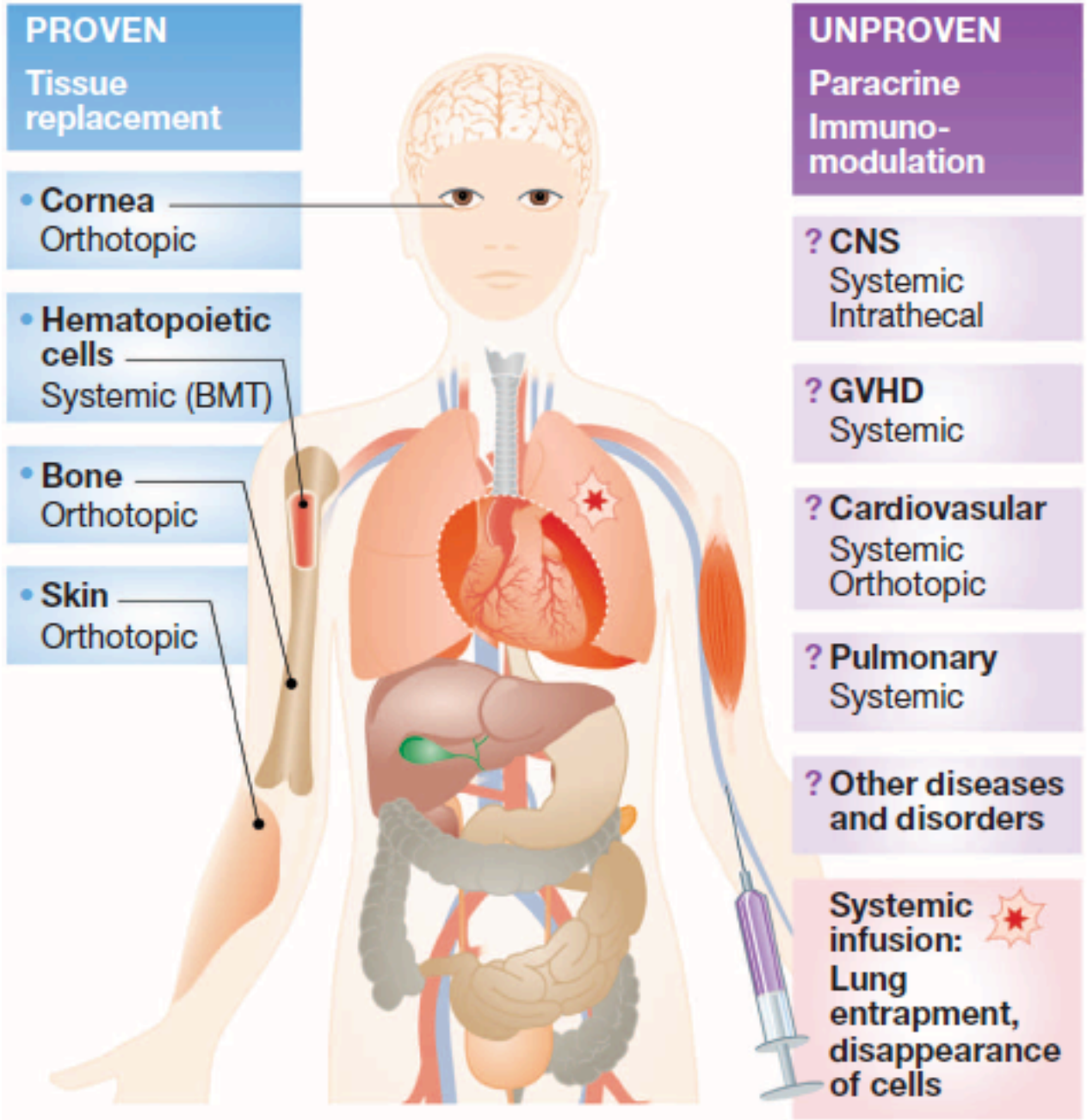
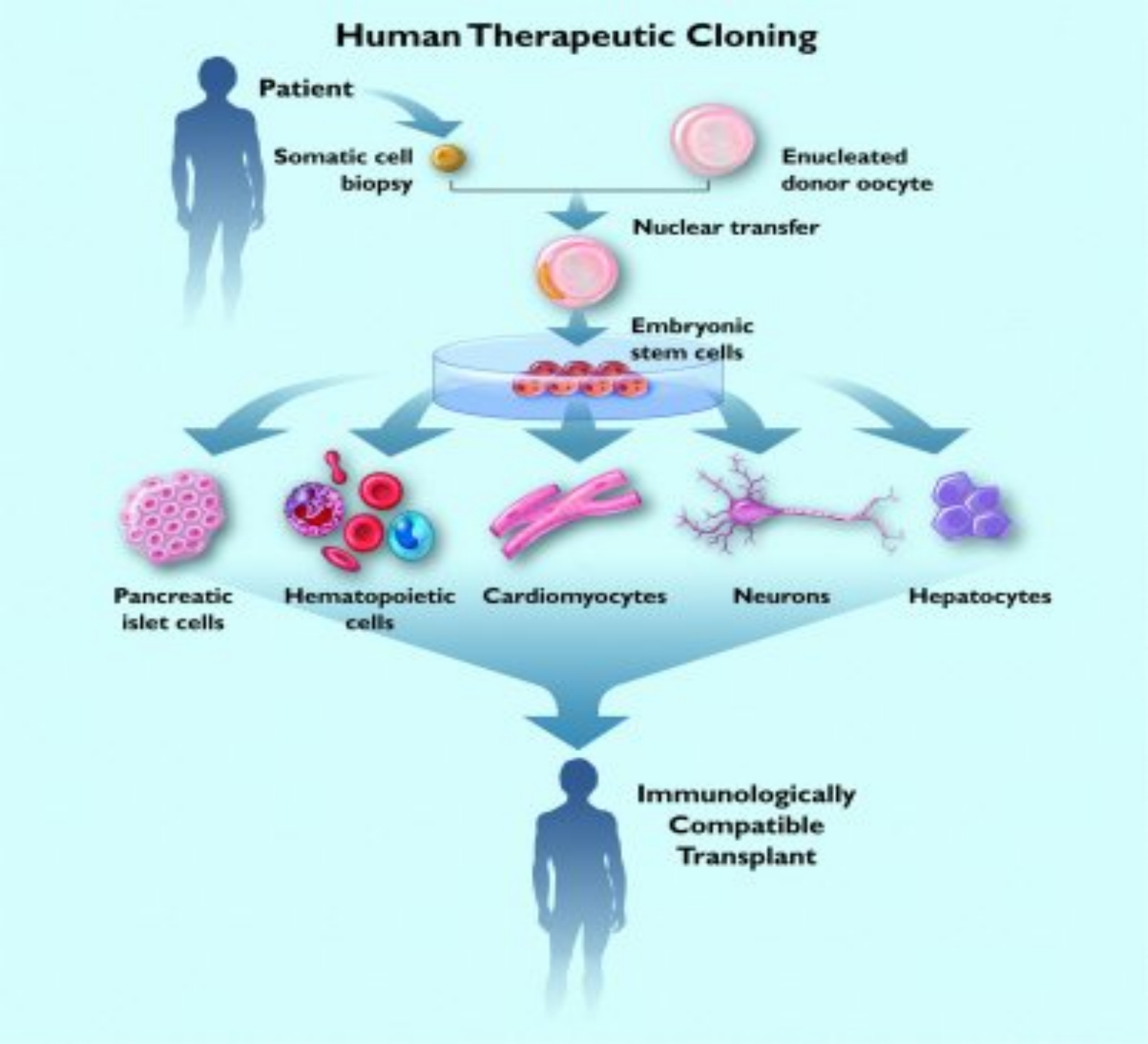
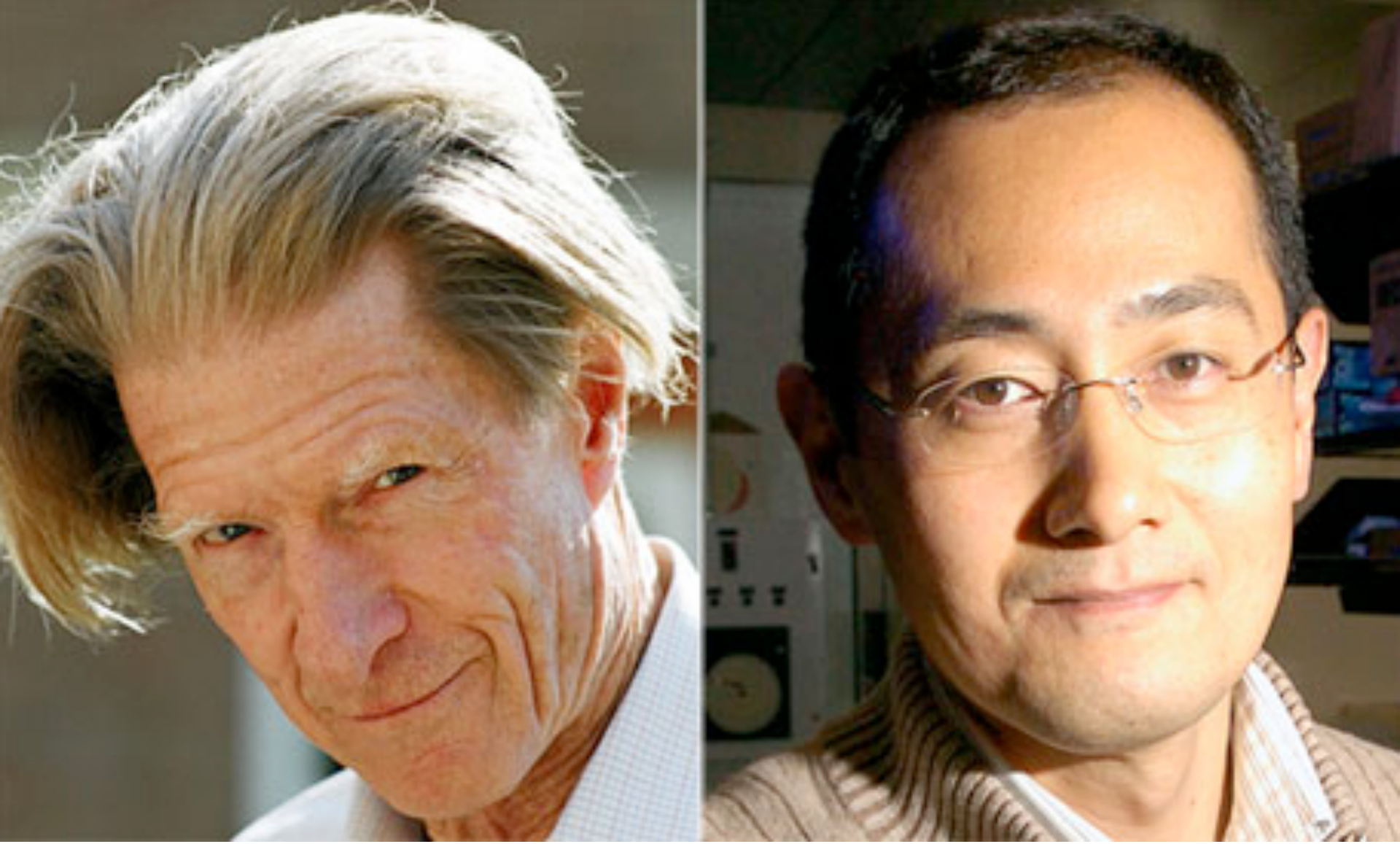

Totipotent
Zygote
ICM
EE
Blastocyst
Pluripotent
Embryonic stem cells
Multipotent
Neural stem cells (neurons)
Bulge stem cells (skin/hair)
Crypt stem cells (gut)
Haematopoietic stem cells (blood)

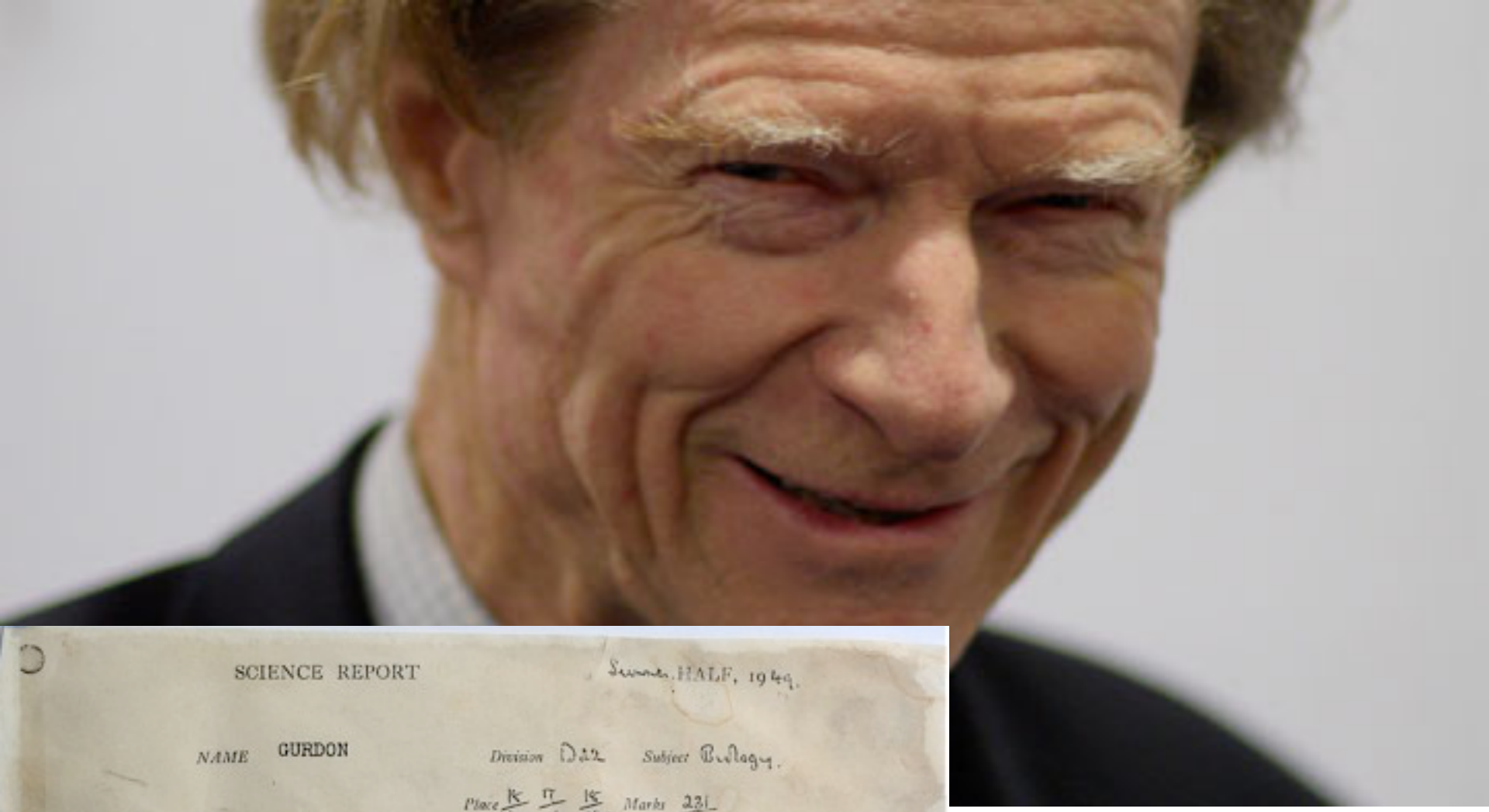
March 2013


PROVEN
Tissue replacement
• Cornea
Orthotopic
• Hematopoietic cells
Systemic (BMT)
• Bone
Orthotopic
• Skin
Orthotopic
UNPROVEN
Paracrine
Immuno-modulation
? CNS
Systemic
Intrathecal
? GVHD
Systemic
? Cardiovasular
Systemic
Orthotopic
? Pulmonary
Systemic
? Other diseases and disorders
Systemic infusion:
Lung entrapment, disappearance of cells


Human Therapeutic Cloning
Patient
Somatic cell biopsy
Enucleated donor oocyte
Nuclear transfer
Embryonic stem cells
Pancreatic islet cells
Hematopoietic cells
Cardiomyocytes
Neurons
Hepatocytes
Immunologically Compatible Transplant



John Gurdon (left) and Shinya Yamanaka
showed how to reprogram cells into their embryonic states



SCIENCE REPORT Summer HALF, 1949.

NAME GURDON *Division* D22 *Subject* Biology.

Place 15/15 11/15 15/15 *Marks* 231/550

It has been a disastrous half. His work has been far from satisfactory. His prepared stuff has been badly learnt, and several of his test pieces have been torn over; one of such pieces of prepared work scored 2 marks out of a possible 50. His other work has been equally bad, and several times he has been in trouble, because he will not listen, but will insist on doing his work in his own way. I believe he has ideas about becoming a Scientist; on his present showing this is quite ridiculous, if he can't learn simple Biological facts he would have no chance of doing the work of a Specialist, and it would be sheer waste of time, both on his part, and of those who have to teach him.

C Guest.

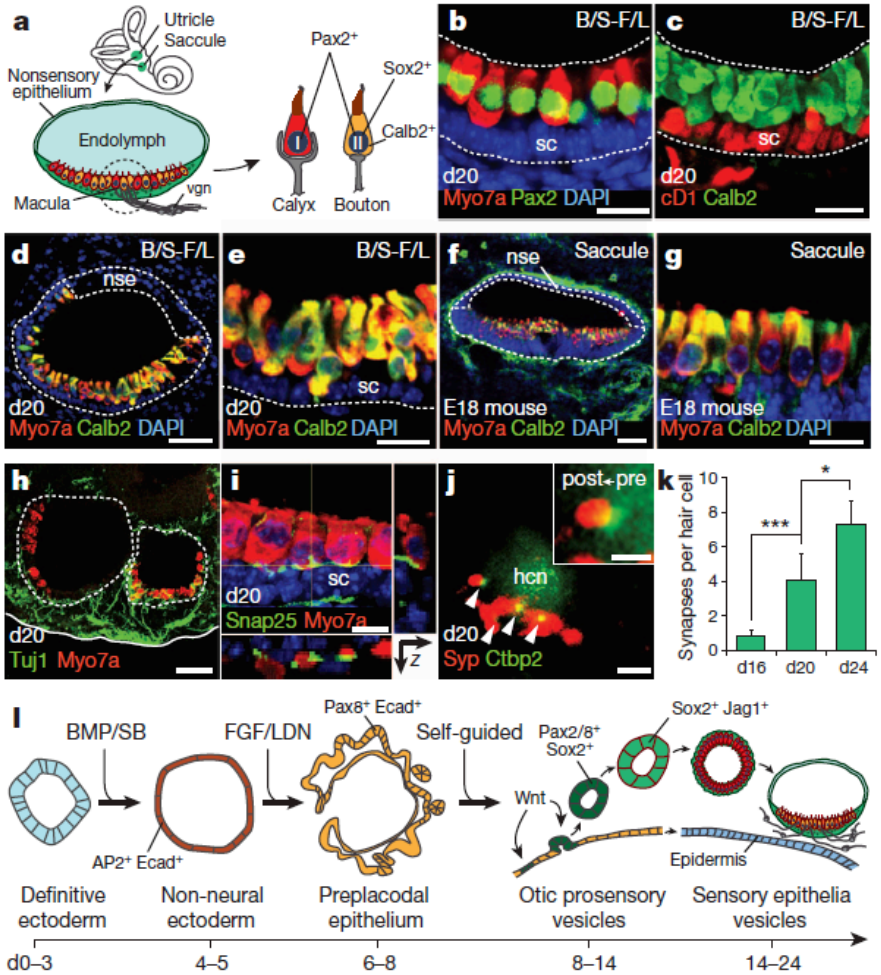


Figure 4 | Stem-cell-derived sensory epithelia are comparable to immature vestibular end organs. a, Schematic of vestibular end organs and type I/II

LETTER 8 AUGUST 2013 | VOL 500 | NATURE | 217

doi:10.1038/nature12298

Generation of inner ear sensory epithelia from pluripotent stem cells in 3D culture

Karl R. Koehler[1,2,3], Andrew M. Mikosz[2,3], Andrei I. Molosh[2,4], Dharmeshkumar Patel[2,3] & Eri Hashino[1,2,3]

nature

www.nature.com/nature

Vol 452 | Issue no. 7190 | 24 April 2008

New sources of sex cells

Within the next decade or so, it will become possible to derive sperm and eggs from skin cells. The ethical and technical hurdles need to be addressed with the scientific and therapeutic benefits in mind.

Cesare Perotti è responsabile del settore aferesi e manipolazione cellulare del servizio di Immunoematologia e medicina trasfusionale della Fondazione IRCCS Policlinico San Matteo di Pavia.

Claudia Del Fante è dirigente medico del servizio di Immunoematologia e medicina trasfusionale della Fondazione IRCCS Policlinico San Matteo di Pavia.

Carlo Alberto Redi è professore di biotecnologie della riproduzione all'Università di Pavia; accademico dei Lincei e membro del Comitato Nazionale per la biosicurezza, le biotecnologie e le scienze della vita.

MEDICINA

Staminali dal cordone ombelicale

Il sangue prelevato dal cordone è un tesoro di cellule staminali usate per curare numerose malattie e come tutti i tesori ha attirato anche interessi privati, che però non hanno alcun fondamento terapeutico

di Cesare Perotti, Claudia Del Fante e Carlo Alberto Redi

IN BREVE

Da circa vent'anni il cordone ombelicale è una fonte importante di cellule staminali per la cura di molte malattie, non solo del sangue, e non è più considerato uno scarto. Inoltre, progressi della biologia delle staminali hanno suggerito la costituzione di banche del cordone dove caratterizzare le cellule staminali e metterle a disposizione dei pazienti.
Oggi in Italia viene donato solo il cinque per cento dei cordoni, di cui solo un terzo circa è utilizzabile. In totale nelle 18 banche italiane sono disponibili poco più di 20.000 cordoni per terapie dedicate non solo alle malattie del sangue.
Solo la raccolta solidaristica (cioè la donazione a banche pubbliche) assicura un corretto uso terapeutico delle staminali contenute nei cordoni, come sostenuto dalle più autorevoli società scientifiche. Mentre la conservazione privata a uso personale è priva di ogni fondamento scientifico e terapeutico, ed è alimentata solo da fini commerciali.

Un medico afferra con le pinze il cordone ombelicale di un bambino che sta nascendo con il taglio cesareo. Cordone ombelicale e placenta contengono sangue ricco di cellule staminali.

Fotografia di Mazzoni/Sipa Press