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EXOBI

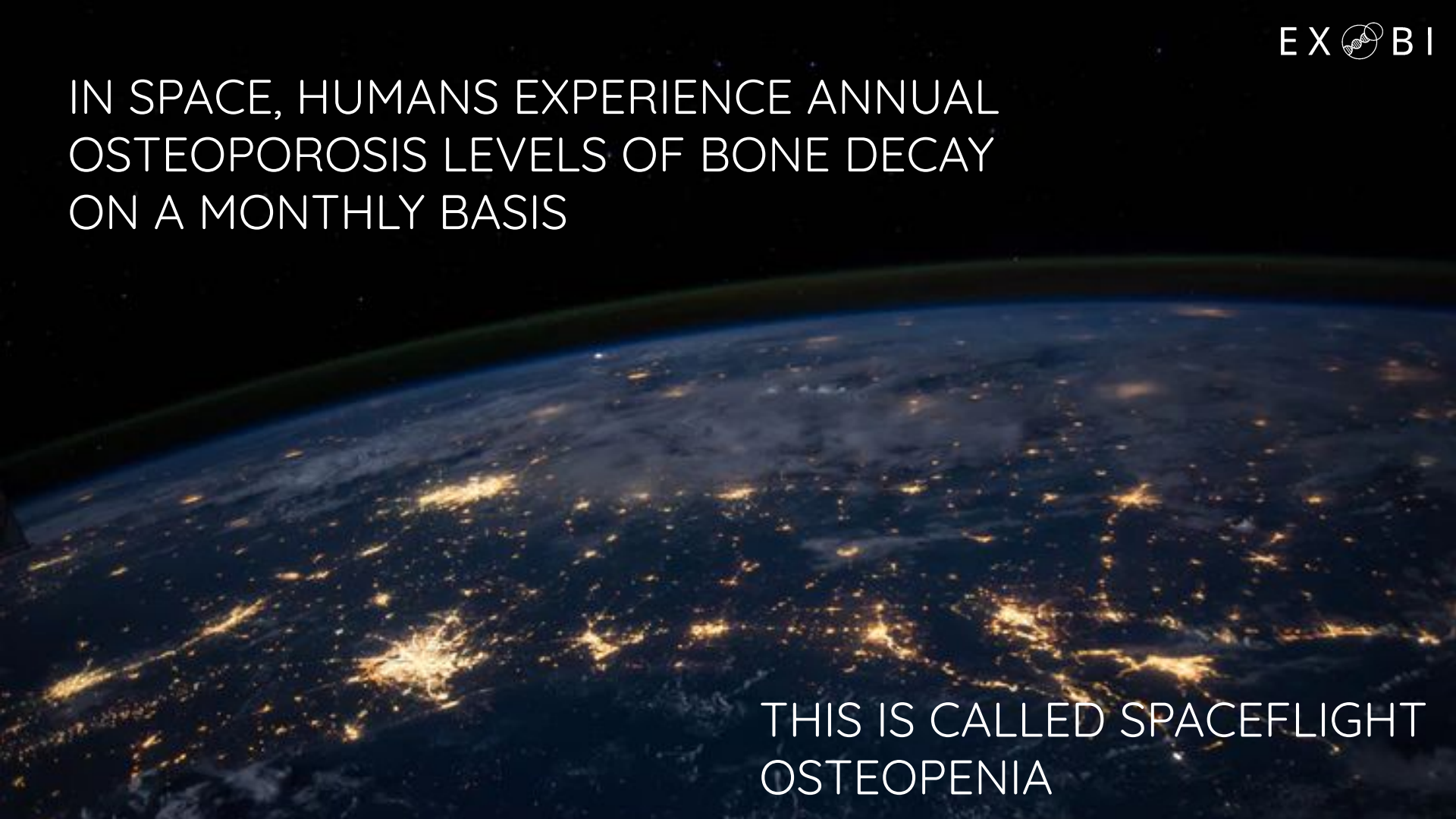
OUR BODIES ARE NOT BUILT FOR LONG TERM SPACE TRAVEL

EXOBI

ENGINEERING THE HUMAN BODY FOR LONG TERM SPACE EXPLORATION

EXOBI

IN SPACE, HUMANS EXPERIENCE ANNUAL OSTEOPOROSIS LEVELS OF BONE DECAY ON A MONTHLY BASIS



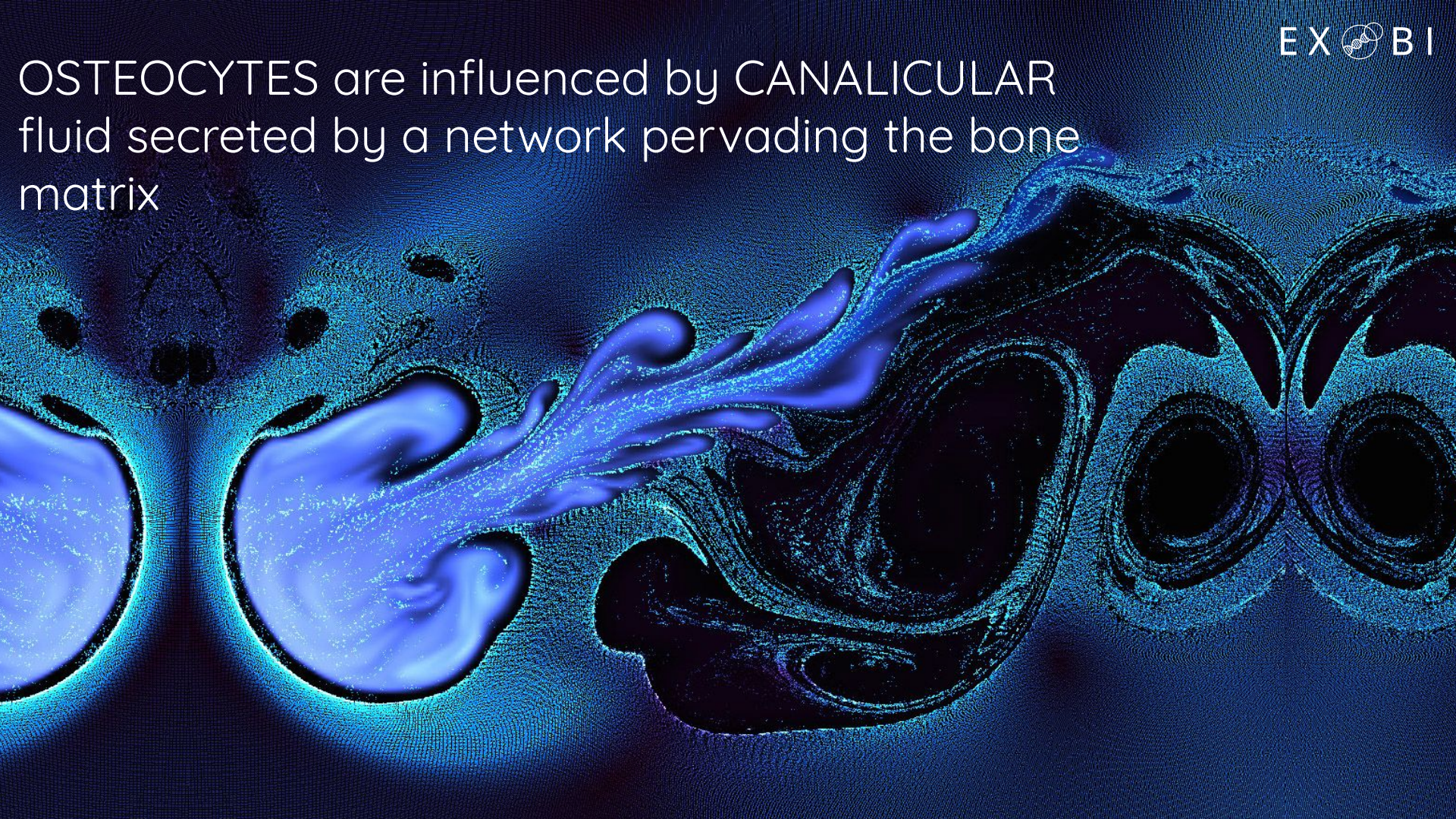
THIS IS CALLED SPACEFLIGHT OSTEOPENIA

OSTEOCLASTS break down bone

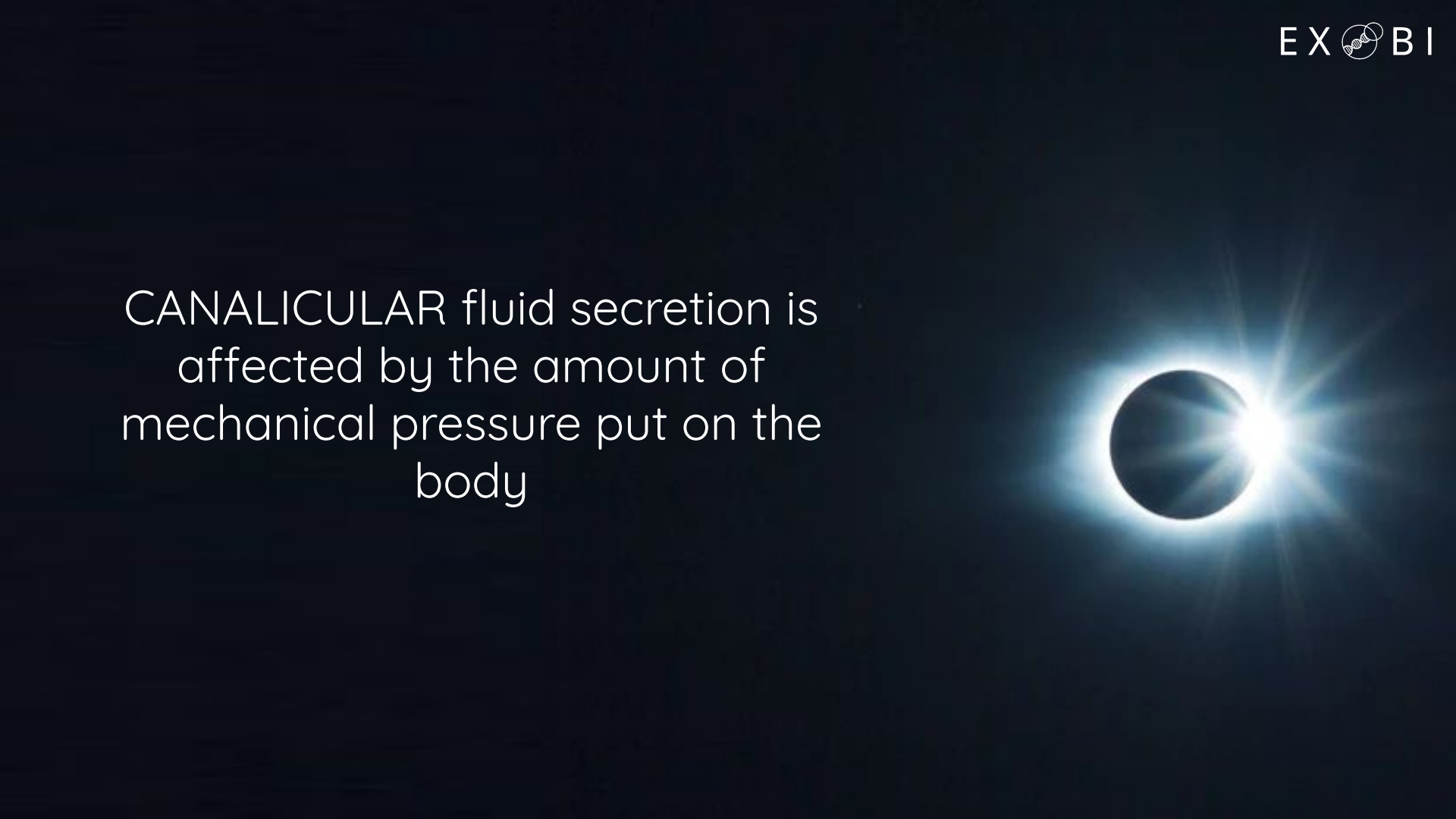
OSTEOBLASTS repair bone

OSTEOCYTES manage osteoclast and osteoblast proliferation

OSTEOCYTES are influenced by CANALICULAR fluid secreted by a network pervading the bone matrix

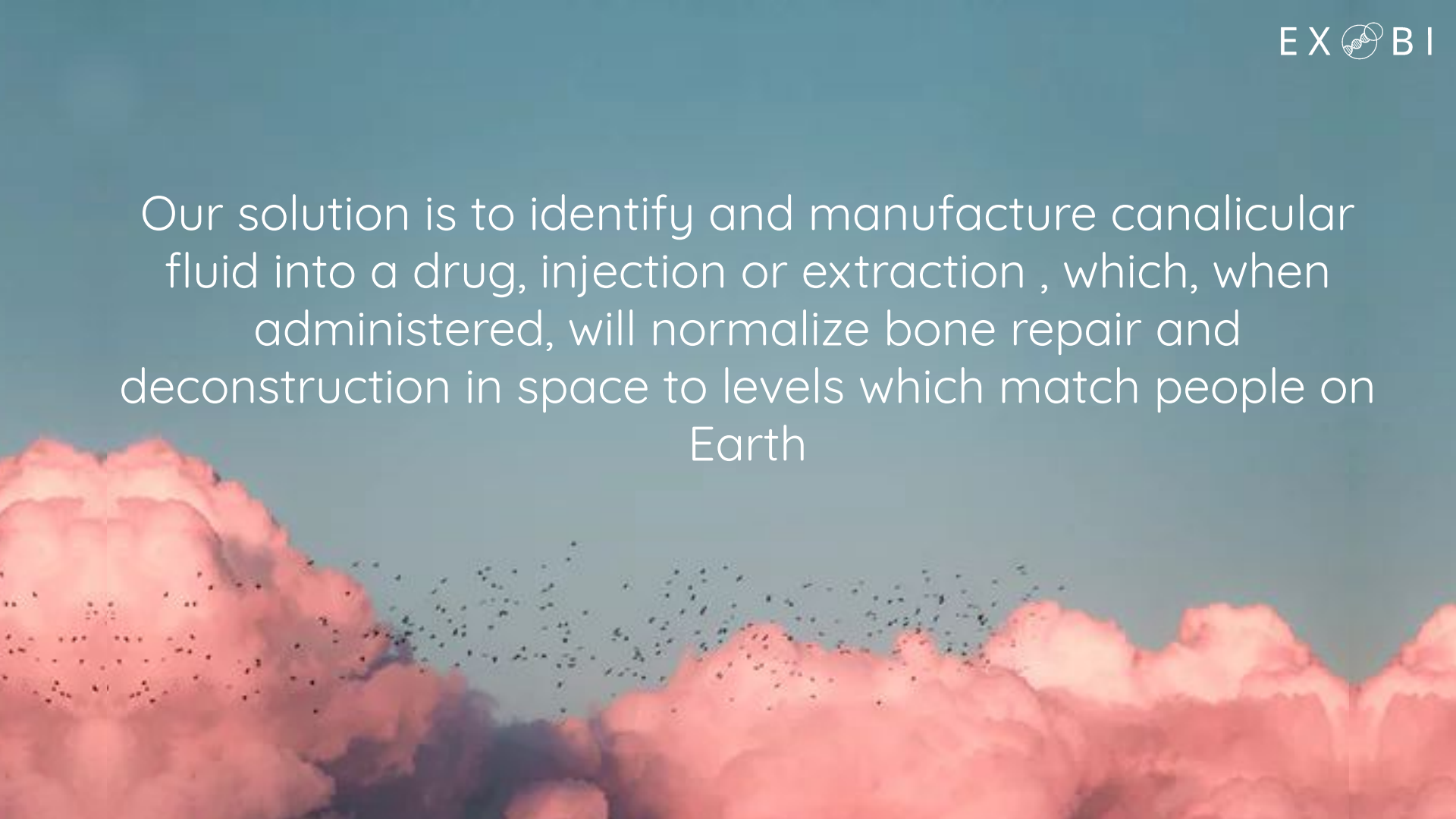


CANALICULAR fluid secretion is affected by the amount of mechanical pressure put on the body



Basically,

Less gravity
=
different amount of fluid secreted
=
osteocytes behave differently
=
Less osteoblasts
=
bone deterioration


EXOBI
Our solution is to identify and manufacture canalicular fluid into a drug, injection or extraction , which, when administered, will normalize bone repair and deconstruction in space to levels which match people on Earth


YOU