

Title (en)  
COMPOSITIONS AND METHODS FOR ENHANCING SPERM FUNCTION

Title (de)  
ZUSAMMENSETZUNGEN UND VERFAHREN ZUR ERHÖHUNG DER SPERMIENFUNKTIONEN

Title (fr)  
COMPOSITIONS ET MÉTHODES POUR AMÉLIORER LA FONCTION SPERMATIQUE

Publication  
**EP 3817675 A4 20210901 (EN)**

Application  
**EP 19889765 A 20191127**

Priority

- US 201862773448 P 20181130
- US 201862773453 P 20181130
- US 201862773462 P 20181130
- US 201862773471 P 20181130
- US 201862773433 P 20181130
- US 201862773440 P 20181130
- US 201916282204 A 20190221
- US 201916282217 A 20190221
- US 201916282224 A 20190221
- US 201962914803 P 20191014
- US 2019063687 W 20191127

Abstract (en)  
[origin: WO2020113061A1] The disclosure provides, inter alia, methods of improving sperm function and related methods of fertilization, together with preparations of activated or potentiated sperm. The methods provided by the disclosure, in some embodiments entail energy depletion with subsequent staged reintroduction of different energy sources. The disclosure additionally provides articles of manufacture suitable for performing the methods provided by the invention. The invention provides kits for separating sperm and for processing and preparing sperm for, in some embodiments, IVF or IUI. Also provided are nutrient free reagents useful preparing sperm.

IPC 8 full level  
**C12N 5/076** (2010.01); **C12N 15/873** (2010.01)

CPC (source: EP)  
**C12N 5/061** (2013.01); **C12N 15/873** (2013.01); **C12N 2517/10** (2013.01)

Citation (search report)

- [XY] WO 2017173391 A1 20171005 - VISCONTI PABLO E [US], et al
- [Y] HERENG T.H. ET AL: "Exogenous pyruvate accelerates glycolysis and promotes capacitation in human spermatozoa", HUMAN REPRODUCTION, vol. 26, no. 12, December 2011 (2011-12-01), GB, pages 3249 - 3263, XP055826303, ISSN: 0268-1161, DOI: 10.1093/humrep/der317
- See references of WO 2020113061A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020113061 A1 20200604**; EP 3817675 A1 20210512; EP 3817675 A4 20210901; IL 282515 A 20210630; JP 2021529554 A 20211104

DOCDB simple family (application)  
**US 2019063687 W 20191127**; EP 19889765 A 20191127; IL 28251521 A 20210421; JP 2021522059 A 20191127