


## 基本信息

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## 简介

王鹏元博士，研究员，博士生导师。2017 年加入中科院深圳先进技术研究院医药所退行中心，成立干细胞生物工程实验室。现为深圳市重点实验室主任。2011 年博士毕业于台湾大学化学工程研究所。之后于澳洲斯威本科技大学(SUT)担任讲师、并在墨尔本大学(UoM)与澳洲科学研究院(CSIRO)担任兼职科学家。2015 年获得澳大利亚杰出青年科学家奖(DECRA)，是澳洲第一个也是目前唯一获得此奖的台湾青年学者。近年专注于体外细胞命运调控与仿生细胞外基质，并在国际知名期刊发表论文超过 50 篇，包括 *Advanced Functional Material*、*Small*、*ACS Applied Materials and Interfaces*、*Acta Biomaterialia*。

## 研究方向

干细胞生物工程  
生物介面  
仿生细胞外基质  
诱导多能干细胞  
间充质干细胞  
癌细胞  
生物膜

## 主要学术任职：

1. 期刊审查委员
  - ACS Applied Materials & Interfaces, ACS Biomaterials Science Engineering, Acta Biomaterialia, Advanced Functional Materials, Advanced Healthcare

Materials, Colloid and Polymer Science, Crystals, e-Polymers, Science China Materials, Chemistry Central Journal, Journal of Materials Chemistry B, Materials, Nanomaterials, Journal of Polymer Research, Polymers, The Journal of Physical Chemistry C, Colloids and Surfaces B: Biointerfaces, ACS Applied Bio Materials, Biotech and Bioeng, International Journal of Nanomedicine, Analytical Chemistry, ACS Omega.

- The 10<sup>th</sup> World Biomaterials Congress, 15.07.2015
- The 11<sup>th</sup> World Biomaterials Congress, 10.07.2019

## 2. 期刊编辑委员

- Gavin Journal of Nanomedicine & Nanotechnology, 15.11.2016
- Henry Journal of Nanoscience, Nanomedicine & Nanobiology, 07.06.2016
- Henry Journal of Stem Cell Biology, Research & Therapy, 07.06.2016
- Reports in Clinical Studies and Medicine, 08.04.2018
- Coatings (special issue), MDPI, 07.2019

## 主要代表论著 ( 通讯或一作 , 最具代表性 5 篇 ):

1. Diba FS, Reynolds N, Thissen H, **Wang PY\***, Kingshott P\* "Tunable Chemical and Topographic Patterns Based on Binary Colloidal Crystals (BCCs) to Modulate MG63 Cell Growth" **Adv Funct Mater** July 2019 1904262
2. Cui C, Wang J, Qian D, Huang J, Lin J, Kingshott P, **Wang PY\***, Chen M\* "Binary colloidal crystals (BCCs) drive spheroid formation and accelerate maturation of human induced pluripotent stem cells-derived cardiomyocytes". **ACS Appl Mater Inter** 2019 Jan 30;11(4):3679-3689.
3. **Wang PY**, Shields CW IV, Zhao T, Jami H, López GP\*, Kingshott P\*. "Rapid self-assembly of shaped microtiles into large, close-packed crystalline monolayers on solid surfaces" **Small** 2016 Mar;12(10):1309-14.
4. **Wang PY\***, Thissen H, Kingshott P. "Stimulation of early osteochondral differentiation of human mesenchymal stem cells using binary colloidal crystals (BCCs)" **ACS Appl Mater Inter** 2016 Feb;8(7):4477-88
5. **Wang PY**, Clements LR, Thissen H, Jane A, Tsai WB\*, Voelcker NH\*. "Screening mesenchymal stem cell attachment and differentiation on porous silicon gradients" **Adv Funct Mater** 2013 May;22:3414-23