|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Population abbreviation** | **Location** | **Origin** | **Country** | **GPS Coordinates** | **Sampling (production) year** | **Sample size** | **Study** |
| **KEE** | Keelung | Keelung bay | Taïwan | 25°09’29.89"N - 121°44’54.87"E | 1996 | 28 | 1,2 |
| **SAD1** | Rio Sado | Sado estuary | Portugal | 38°29’15.72"N - 8°49’44.48"O | 2010 | 36 | 1,2,3 |
| **JAP** | Miyagi | Matsushima bay | Japan | 38°21’31.99"N - 141°6’20.34"E | 2010 | 47 | 1,2,3 |
| **LAF1** | Pointe de La Fumée | Charente estuary | France | 46°00'10.01"N - 1°07'17.46"O | 2010 | 39 | 1,2,3 |
| **LAFG0** | Pointe de La Fumée | Charente estuary | France | 46°00'10.01"N - 1°07'17.46"O | 2012 | 9 | 2 |
| **SADG0** | Rio Sado | Sado estuary | Portugal | 38°29’15.72"N - 8°49’44.48"O | 2012 | 9 | 2 |
| **HYB** | Experimental hatchery | LAFG0 X SADG0 | France |  | (2012) | 104 | 2 |
| **TAV1** | Tavira | Algarve | Portugal | 37°06’59.98"N - 7°37’41.21"O | 1998 | 24 | 2 |
| **LIM** | Limfjorden | Jutland | Denmark | 56°43’16.99"N - 8°15’26.34"E | 2010 | 38 | 3 |
| **NOR** | Champeaux | Mont Saint-Michel bay | France | 48°43’50.80"N - 1°31’59.76"O | 2010 | 37 | 3 |
| **PC** | Pointe du Château | Brest bay | France | 48°19’51.44"N - 4°18’60.00"O | 2010 | 37 | 3 |
| **KER** | Kersanton | Brest bay | France | 48°21’N - 4°17’O | 2010 | 37 | 3 |
| **LOC** | Le Loc’h - Anse de Poulmic | Brest bay | France | 48°17’32.40"N - 4°20’11.20"O | 2017 | 37 | 3 |
| **FAO** | Faou river | Brest bay | France | 48°17’51.70"N - 4°13’66.30"O | 2017 | 37 | 3 |
| **MEN** | Daoulas river - Mengleuz | Brest bay | France | 48°20’62.80"N - 4°17’37.10"O | 2017 | 37 | 3 |
| **QUI** | Kerivor | Quiberon bay | France | 47°34’57.40''N - 3°06’41.80"O | 2017 | 37 | 3 |
| **CAM** | Camaret | Vilaine bay | France | 47°29’79.40"N - 2°29’46.50"O | 2017 | 37 | 3 |
| **COU** | La Couplasse | Bourgneuf bay | France | 47°00'45.78"N - 2°01'02.78"O | 2017 | 37 | 3 |
| **HER** | L’Herbaudière | Noirmoutier island | France | 47°01'13.72"N - 2°18'15.60"O | 2017 | 37 | 3 |
| **LTM** | La Tranche sur mer | Aiguillon bay | France | 46°20’0.10"N - 1°21’0.60"O | 2010 | 37 | 3 |
| **SCB1** | Saint-Clément des Baleines | Ré island | France | 46°14'43.62"N - 1°33'47.56"O | 2010 | 37 | 3 |
| **SCB2** | Saint-Clément des Baleines | Ré island | France | 46°14'43.62"N - 1°33'47.56"O | 2017 | 36 | 3 |
| **LAF2** | Pointe de La Fumée | Charente estuary | France | 46°00'10.01"N - 1°07'17.46"O | 2017 | 36 | 3 |
| **VSM1** | Vaux sur mer | Gironde estuary | France | 45°37'51.13"N - 1°03'53.46"O | 2010 | 38 | 3 |
| **VSM2** | Vaux sur mer | Gironde estuary | France | 45°37'51.13"N - 1°03'53.46"O | 2017 | 36 | 3 |
| **ARE** | Arès | Arcachon bay | France | 44°40’13.55’’N - 1°04’35.45"O | 2010 | 37 | 3 |
| **GAH** | Gahignon | Arcachon bay | France | 44°42’26.93"N - 1°8’11.55"O | 2010 | 37 | 3 |
| **COM** | Comprian | Arcachon bay | France | 44°40’13.55"N - 1°04’35.45"O | 2017 | 37 | 3 |
| **JAC** | Jacquets | Arcachon bay | France | 44°72’18.50"N - 1°18’79.50"O | 2017 | 36 | 3 |
| **AGD** | Cap d’Agde | Mediterranean sea | France | 43°16’44.48"N - 3°29’45.13"E | 2010 | 36 | 3 |
| **THA** | Thau lagoon | Mediterranean sea | France | 43°26’80.00"N - 3°39’47.70"E | 2017 | 37 | 3 |
| **TAV2** | Tavira | Algarve | Portugal | 37°06’59.98"N - 7°37’41.21"O | 2000 | 38 | 3 |

Table 1. List and characteristics of all the samples used. The study column represents the list of the studies the samples were used in: 1: Development of the ancestry informative panel; 2: Confirmation of the power of the ancestry informative panel; 3: Characterization the European cupped oyster diversity.