



**sirona**  
biochem

# Investor Presentation

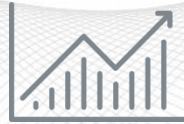
December 2020

# Forward Looking Statements

*Sirona Biochem cautions you that statements included in this presentation that are not a description of historical facts may be forward-looking statements. Forward-looking statements are only predictions based upon current expectations and involve known and unknown risks and uncertainties. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of release of the relevant information, unless explicitly stated otherwise. Actual results, performance or achievement could differ materially from those expressed in, or implied by, Sirona Biochem's forward-looking statements due to the risks and uncertainties inherent in Sirona Biochem's business including, without limitation, statements about: the progress and timing of its clinical trials; difficulties or delays in development, testing, obtaining regulatory approval, producing and marketing its products; unexpected adverse side effects or inadequate therapeutic efficacy of its products that could delay or prevent product development or commercialization; the scope and validity of patent protection for its products; competition from other pharmaceutical or biotechnology companies; and its ability to obtain additional financing to support its operations. Sirona Biochem does not assume any obligation to update any forward-looking statements except as required by law.*

# Investment Highlights

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Sirona Biochem is a cosmetic ingredient and drug discovery firm with a proprietary platform technology. Through its wholly-owned French subsidiary TFChem, the Company specialises in stabilising carbohydrate molecules with the goal of improving efficacy and safety. Sirona Biochem is focusing on attractive indications such as the treatment of diabetes, which is predicted to be the 7th leading cause of death by 2030.

## Investment Highlights

- Advancing a clinical trial for 2x dose of TFC-1067 with major pharmaceutical partner
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- Technology developed in France, based on 20 years of research by award winning CSO
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- Launch of an anti-viral program (April 2020)

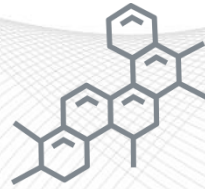
## Fundamental Data\*

TSX-V	SBM
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Share Price (CAD)	\$0.23
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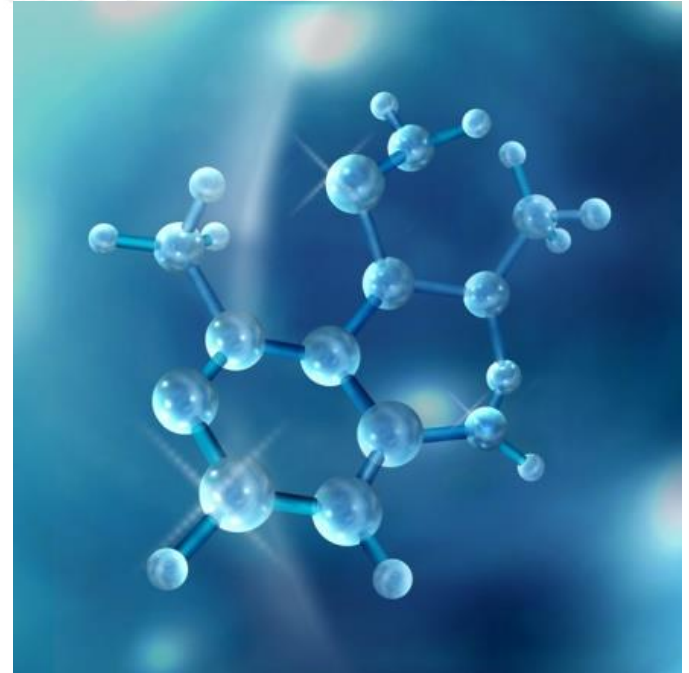
\*December 7, 2020

# Technology

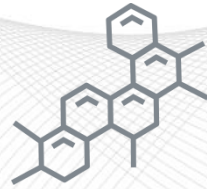
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- TFChem, a wholly-owned subsidiary of Sirona Biochem, has developed a technology that creates safer, more effective pharmaceutical and cosmetic ingredients
- The technology is typically applied to known, commercialized compounds in order to improve them
  - *This significantly reduces the standard risk associated with R&D companies*

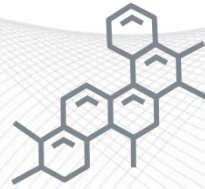


TFChem specializes in the stabilization of carbohydrate molecules through unique, proprietary, chemistry



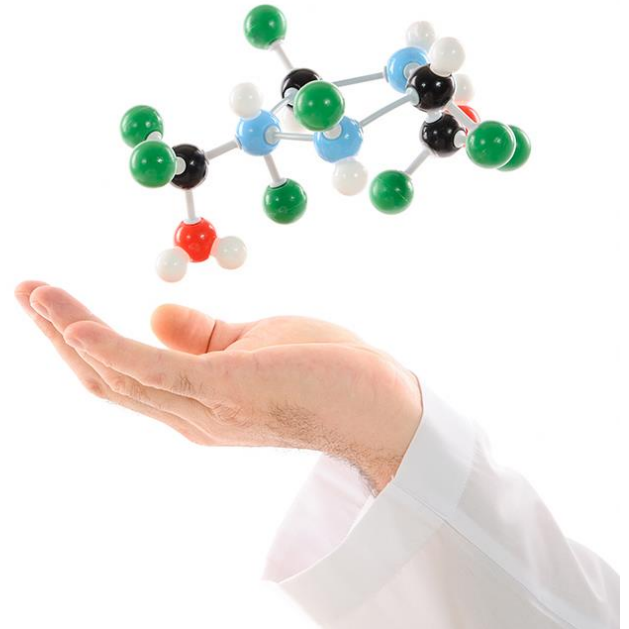
- **Carbohydrate compounds have immense commercial potential.** They are involved in many of our body's biological processes and are also used for development of active ingredients in pharmaceuticals and cosmetics
- **Examples of successful carbohydrate-based drugs are:**
  - Anti-viral medications such as **Tamiflu**, used for the treatment of Influenza A
    - Tamiflu: sales passed \$2.9 Billion USD during H1N1
  - Blood thinners, such as: **Arixtra** and **Lovenox**, for the treatment of blood clots
    - Lovenox: sales of \$1.73 Billion USD (2018)





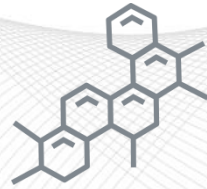
## The challenges with carbohydrates are:

- Carbohydrates have complex syntheses requiring expert chemists
- Carbohydrates are unstable, causing lower efficacy or toxic by-products
- Carbohydrates have poor pharmacological properties



**Sirona's proprietary chemistry increases the potential and reduces the drawbacks of carbohydrate molecules**





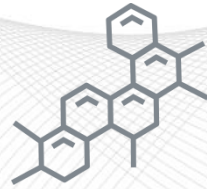
- Sirona's Fluorination Chemistry Technology is the solution to unstable carbohydrate molecules.
- The chemistry strengthens the bonds of a carbohydrate molecule by strategically placing fluorine atoms.



Carbohydrate molecules are unstable by nature



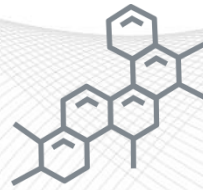
Sirona's technology stabilizes carbohydrate molecules



## Business Model

- Sirona's strategy is to license or sell patented compounds to leading global companies in return for up-front fees, milestone fees and ongoing royalty payments





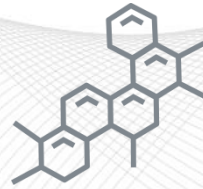
## Pipeline

### Cosmetic Products

Therapeutic Area	Compound	Status
Skin lightening (Rx & OTC)	TFC-1067 & family of skin lighteners	<ul style="list-style-type: none"> <li>Completed clinical study (see next slide)</li> <li>Preparing second (higher dose) study</li> <li>Rodan + Fields licensed</li> <li>Seeking further global partners</li> </ul>
Cell Preservation & Repair (incl Keloid and scar therapy)	Glycoprotein library	<ul style="list-style-type: none"> <li>In vitro testing</li> </ul>
Anti-Aging / Anti-wrinkle	LIP-01	<ul style="list-style-type: none"> <li>In preparation for clinical trial</li> </ul>

### Pharmaceutical Products

Therapeutic Area	Compound	Status
Diabetes	TFC-039	<ul style="list-style-type: none"> <li>Phase I clinical trials with Wanbang/Fosun (China)</li> <li>Preparing expansion into new markets</li> </ul>
Anti-viral	TBD	<ul style="list-style-type: none"> <li>Chemistry</li> </ul>

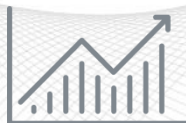


## **TFC-1067 Clinical Study**

(performed by Dr. Zoe Draelos of Dermatology Consulting Services, USA)

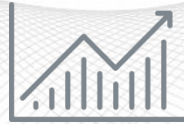
Sirona's TFC-1067 demonstrates superiority to the gold standard, hydroquinone, for the treatment of dyschromia (hyperpigmentation or "dark spots" of the skin)

- 12-week double blinded study with 48 participants
- TFC-1067 successfully achieved the endpoint of lightening dyschromic areas on the skin
- Areas of hyperpigmentation were significantly lightened and blended into surrounding skin, while preserving overall tone
- No clinical safety issues during the trial
- Provides strong evidence that TFC-1067 is a **safe and superior replacement to hydroquinone** for the treatment of facial hyperpigmentation



## Rodan + Fields Agreement (2019)

- In September 2019, Sirona signed a license agreement with industry leader Rodan + Fields (R+F) for the non-exclusive use of skin lightening compound TFC-1067
- “As a company committed to innovation, Rodan + Fields continually seeks out novel and ground-breaking technologies. We’re excited to partner with Sirona to commercialize this highly novel new molecule in an up-and-coming product release and deliver the well-validated benefits to our consumer base”, said Dr. Simon Craw, Senior Director of R&D [Read more here](#)
- R+F is a leader in their field. In 2017 the company was named [the #1 Skincare Brand](#) in North America and is the fastest growing beauty and personal care brand in the US
- **The global skin lightening market is expected to reach USD 13.7 billion by 2025 – expanding a CAGR of 7.4%** (<https://www.grandviewresearch.com/press-release/global-skin-lightening-products-market>)



## Wanbang Biopharmaceuticals Agreement (2014)

- In January 2014, Sirona signed a license agreement with Wanbang Biopharmaceuticals (Wanbang), a subsidiary of Fosun Pharmaceutical Group, which is listed on the Hong Kong stock exchange
- The license allows Wanbang to develop and commercialize Sirona's anti-diabetic SGLT2 inhibitor, TFC-039, exclusively in the People's Republic of China (PRC)
- In return for the license, Wanbang provides upfront and milestone payments of up to US\$9.5M in addition to royalty payments for product sales in the PRC
- To date, Sirona has received \$1.5 M in milestone payments
- TFC-039 is currently in Phase I clinical trials and expected to complete early 2021
- **China diabetes market reached a value of US\$ 3.8 Billion in 2019, growing at a CAGR of around 11% during 2014-2019** (<https://www.imarcgroup.com/china-diabetes-market>)

# About Us

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## Locations



**Sirona Biochem (Parent Company)**  
Vancouver, BC, Canada



**TFChem (Wholly Owned Subsidiary)**  
Val de Reuil, France

- Sirona Biochem was founded in 2009
- TFChem was acquired in 2011



# Management



**Howard J. Verrico, MD**  
Founder, Sirona Biochem  
CEO and Chairman of the Board

Dr. Verrico obtained his medical degree from the University of Toronto in 1985 and has been a member of the College of Physicians and Surgeons of British Columbia since July 1986. Dr Verrico is currently a practicing emergency room physician. In addition, Dr. Verrico has extensive experience as a venture capitalist in the junior capital markets.



**Geraldine Deliencourt-Godefroy, PhD**  
Founder, TFChem  
Chief Scientific Officer

Dr. Géraldine Deliencourt-Godefroy is an award-winning synthetic chemist and the founder of French-based biotechnology company TFChem. Since the acquisition of TFChem by Sirona Biochem in March 2011, Dr. Deliencourt-Godefroy has assumed the role of Chief Scientific Officer. Her scientific research in carbohydrate chemistry has led to the discovery of new drug families and the development of drug candidates for diabetes and obesity, cosmetic ingredients and biological adjuvants. Previous to founding TFChem, Dr. Deliencourt-Godefroy was a scientific leader at INSA (National Institute of Applied Sciences) in Rouen, France, where she developed a new technology on stabilized carbohydrates. Previous roles also include a post-doctoral position at the University College London and doctoral research at the Research Institute of Fine Organic Chemistry in Rouen, France. Dr. Deliencourt-Godefroy received a PhD and Masters in Organic Chemistry as well as her business degree from the University of France. She is the author of several publications and patents and is also the recipient of the acclaimed Francinov Research and Innovation Medal, French Ministry of Research Award and the French Senate Award.

# Management

**Christopher Hopton, CPA, CGA**  
Chief Financial Officer



Christopher Hopton, Sirona Biochem's Chief Financial Officer, brings 27 years of expertise in financial management and operations. His extensive experience covers areas of financial planning, accounting policy and business process improvement. As a business investment and finance consultant, Mr. Hopton has worked with several public and privately-held companies. Most recently, Mr. Hopton was the Chief Financial Officer of Central Resources Corp., a junior mineral exploration company. Formerly, he held the position of Division Controller at Canadian Airlines where he was responsible for an annual operating budget of \$200M. Mr. Hopton was also involved in the restructuring of 360 Networks, a network communications company, which led to a buyout by Bell Canada. Mr. Hopton earned his Bachelor of Business Administration from Simon Fraser University in British Columbia, Canada and received his professional designation as a Certified General Accountant.

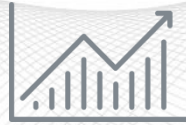
**Michelle Seltenrich, MBA, BSc**  
VP, Operations



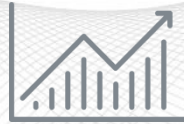
Michelle Seltenrich brings 19 years of expertise in publicly traded biotech companies. Her experience ranges from both academic and industry R&D lab management to corporate mergers and acquisitions. Ms. Seltenrich was previously the Manager of Business Development at Forbes MediTech and was responsible for international business development, in-licensing and M&A. She co-led the team in the successful acquisition of a U.S. based biotech company. Ms. Seltenrich holds a BSc from the University of British Columbia and an MBA in Technology Management from Simon Fraser University.

# Upcoming Milestones

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- Sirona anticipates achieving the following milestones within the next 6 months:
  - Ship first batch of TFC-1067 to Rodan + Fields for product commercialization >> **Complete**
  - Hire additional PhD staff for the scientific team at TFChem >> **Complete**
  - Finalize the Beijing Huaxi Pharma Co, Ltd. collaboration agreement
  - Complete an additional licensing agreement for the SGLT2 inhibitor in new markets
  - Secure non-dilutive funding through anticipated collaborations
  - Begin large-scale manufacturing of TFC-1067 at a major manufacturer >> **Complete**
  - Finalize Tinyi agreement
  - Complete a clinical trial for an increased dose of TFC-1067 (.4%)
  - Complete Phase I clinical trial in China for the SGLT2 Inhibitor and advance to Phase II
  - Complete safety studies and enter clinical trial for anti-wrinkle compound
  - Develop new anti-viral compounds and advance them into preclinical studies
  - Publish in a reputable industry journal >> **Complete**



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TSX-V : SBM

Frankfurt : ZSB

US-OTC : SRBCF